

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: P650696

Luminaire Tested: **GALN-SA1C-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650696
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-SA1C-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5157 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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

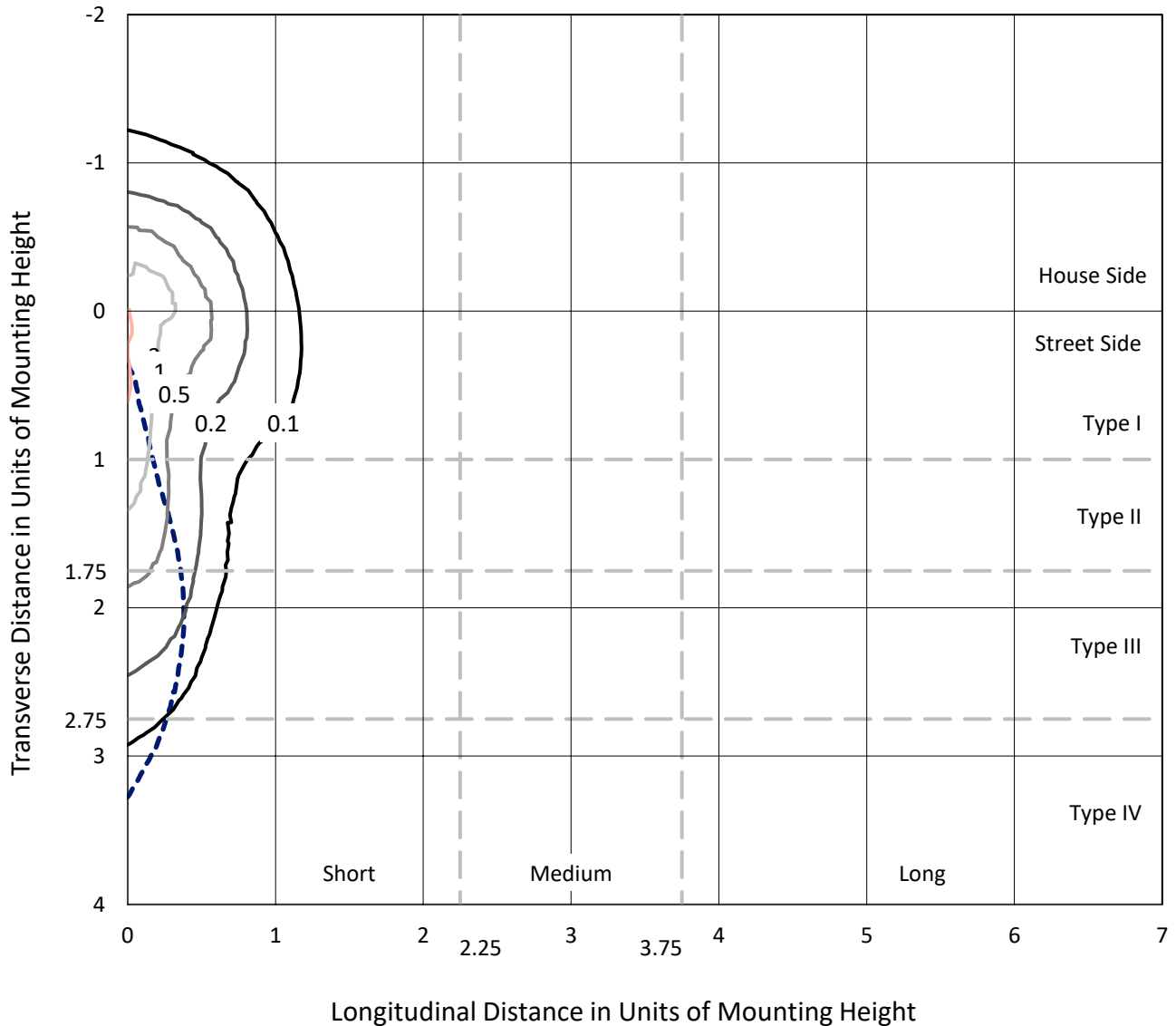




REPORT NUMBER: P650696
 CATALOG NUMBER: GALN-SA1C-840-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

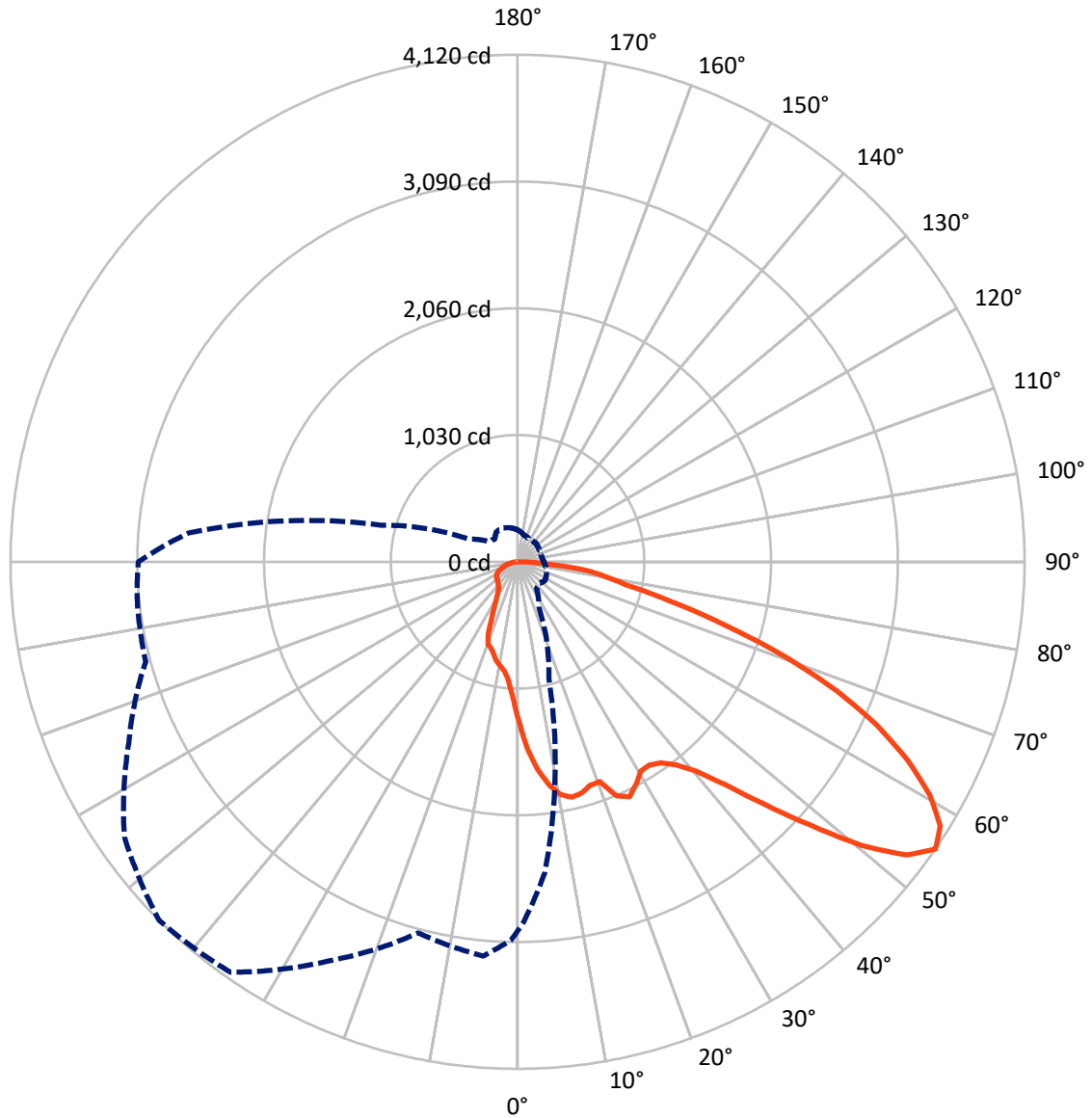
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P650696
CATALOG NUMBER: GALN-SA1C-840-U-SLR

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P650696
 CATALOG NUMBER: GALN-SA1C-840-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.1	0.0	1128.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4028.9	0.0	4028.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	5157.0	0.0	5157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	2.1
10°-20°	291.0	5.6
20°-30°	502.7	9.7
30°-40°	584.2	11.3
40°-50°	815.1	15.8
50°-60°	1106.1	21.4
60°-70°	1052.3	20.4
70°-80°	568.5	11.0
80°-90°	127.4	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°	5157.0	100.0
0°-180°	5157.0	100.0

Coefficient of Utilization



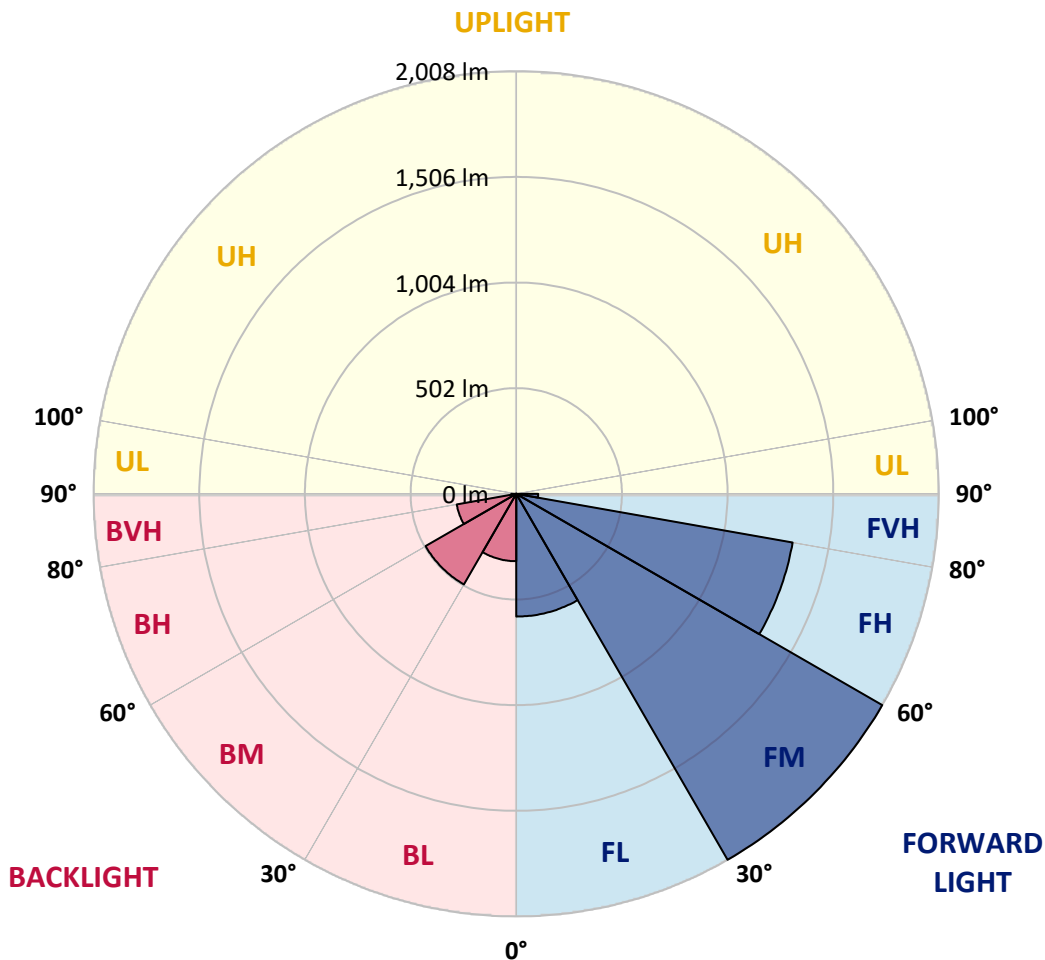
REPORT NUMBER: P650696
 CATALOG NUMBER: GALN-SA1C-840-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.3	11.3			
FM (30°-60°)	2008.0	38.9			
FH (60°-80°)	1333.5	25.9			G1/1800
FVH (80°-90°)	104.1	2.0			G2/225
BL (0°-30°)	320.1	6.2	B1/500		
BM (30°-60°)	497.4	9.6	B1/1000		
BH (60°-80°)	287.2	5.6	B1/500		G1/500
BVH (80°-90°)	23.3	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-G2

Type IV Short





REPORT NUMBER: P650696

CATALOG NUMBER: GALN-SA1C-840-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2
2.5°	1437.8	1432.3	1417.0	1376.9	1336.4	1295.2	1263.6	1224.2	1183.0	1160.8	1132.6
5°	1457.5	1451.4	1415.3	1324.8	1242.8	1156.8	1088.0	1027.8	1003.3	967.2	938.3
7.5°	1411.3	1408.5	1354.4	1224.5	1112.2	999.6	921.7	873.4	829.5	813.2	816.5
10°	1369.1	1358.1	1290.4	1120.7	989.7	898.2	842.4	795.1	764.1	756.0	757.7
12.5°	1334.0	1319.4	1239.5	1050.9	936.3	863.1	792.1	742.7	714.4	722.3	748.8
15°	1326.8	1307.2	1218.0	1027.1	907.0	812.8	734.9	678.1	657.0	674.0	716.5
17.5°	1373.1	1348.3	1254.8	1034.9	879.1	761.4	665.8	600.8	583.1	610.4	665.8
20°	1521.8	1485.0	1369.4	1080.2	876.4	735.9	625.7	560.4	567.8	619.6	677.4
22.5°	1796.7	1741.6	1570.1	1146.2	890.7	729.4	617.5	583.5	624.6	668.5	706.6
25°	1851.1	1808.0	1606.2	1161.2	887.7	725.0	640.7	657.7	703.6	725.4	712.1
27.5°	1881.7	1832.5	1603.8	1087.0	793.7	657.7	612.4	640.7	652.2	631.1	595.1
30°	1953.2	1901.8	1644.3	1009.1	653.5	487.9	427.6	416.1	423.9	428.0	415.0
32.5°	2051.5	2000.8	1720.5	958.1	565.2	403.5	344.3	328.0	324.2	319.8	314.7
35°	2178.8	2100.9	1795.4	925.4	528.7	373.2	318.8	306.2	301.1	294.9	289.6
37.5°	2308.0	2226.4	1890.0	891.0	504.5	352.1	301.8	296.0	287.1	280.7	272.8
40°	2445.5	2354.0	1976.0	861.1	481.1	338.5	289.6	288.9	277.3	269.8	260.6
42.5°	2564.6	2470.4	2052.9	842.8	463.1	324.2	282.1	284.1	272.1	261.0	249.0
45°	2659.2	2566.6	2124.0	842.8	448.4	309.9	280.7	279.3	267.4	253.5	239.9
47.5°	2742.2	2646.6	2193.4	864.1	439.3	298.1	273.2	275.6	263.3	245.7	232.4
50°	2806.5	2722.1	2287.0	897.5	430.0	288.5	263.7	276.6	260.0	241.5	226.2
52.5°	2888.5	2813.0	2399.6	943.1	422.2	278.0	255.2	276.6	259.6	241.9	225.2
55°	3002.1	2922.5	2535.4	980.9	409.7	268.1	247.7	268.8	258.6	240.2	222.5
57.5°	3081.8	3022.2	2631.3	1006.0	391.6	255.5	240.9	261.3	254.2	233.7	214.4
58°	3085.5	3027.3	2645.2	1011.8	387.2	253.1	239.2	257.9	252.1	231.0	211.6
60°	3042.7	2992.6	2648.0	1003.6	362.0	241.2	230.3	244.0	241.2	215.0	197.0
62.5°	2886.8	2833.4	2538.1	937.3	328.7	226.6	216.7	225.2	219.1	192.6	175.9
65°	2665.3	2567.0	2312.2	833.2	304.9	210.9	198.4	199.1	192.6	173.5	158.9
67.5°	2370.4	2260.4	1957.7	702.2	286.8	193.6	176.6	174.8	167.0	154.8	142.9
70°	2007.3	1932.1	1590.9	571.2	266.8	174.5	152.1	151.0	146.3	137.1	126.6
72.5°	1626.9	1531.4	1284.7	457.3	242.2	156.2	129.3	131.4	125.2	118.7	109.2
75°	1200.6	1138.0	993.1	366.8	209.2	136.1	107.8	108.6	105.8	99.0	91.5
77.5°	790.7	772.0	710.4	240.9	161.0	108.2	88.1	88.8	86.8	80.7	72.8
80°	532.1	519.5	481.4	155.2	107.5	78.2	68.0	68.7	68.4	61.9	51.4
82.5°	328.0	322.5	310.2	104.8	74.5	56.2	44.9	46.9	50.7	43.6	35.1
85°	154.8	155.2	187.5	57.2	43.9	36.1	24.5	26.2	26.2	26.2	19.8
87.5°	20.1	21.1	25.8	24.1	16.0	13.6	8.8	7.5	6.5	8.5	6.1
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: P650696
 CATALOG NUMBER: GALN-SA1C-840-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2
2.5°	1122.7	1115.9	1101.3	1097.9	1095.8	1101.6	1086.3	1090.4	1083.6	1102.6	1099.6
5°	940.1	940.7	952.6	960.4	963.2	960.4	950.2	932.6	919.0	913.5	914.8
7.5°	810.1	822.0	842.4	865.2	885.9	892.0	886.2	852.6	815.9	792.7	785.2
10°	766.8	782.9	806.4	824.3	842.8	857.4	860.4	834.2	790.7	735.9	714.4
12.5°	769.3	791.0	813.5	819.2	817.5	823.3	820.6	816.2	787.6	717.9	682.1
15°	746.8	772.6	788.3	785.2	779.8	774.7	767.6	756.3	746.1	697.1	657.7
17.5°	695.1	721.6	734.5	735.5	735.5	734.2	716.9	712.7	711.4	687.6	663.5
20°	704.6	719.2	713.4	703.9	706.6	715.9	705.6	703.6	711.4	721.9	717.5
22.5°	710.1	704.9	661.4	619.2	609.6	638.2	644.0	666.8	698.5	736.5	761.4
25°	676.3	635.2	557.2	509.6	482.8	509.3	544.0	586.2	633.5	682.5	711.4
27.5°	565.5	534.1	478.4	435.5	412.0	416.1	445.7	484.2	528.1	561.0	582.1
30°	426.0	412.0	383.1	368.4	354.1	350.8	363.4	378.0	397.4	401.5	406.9
32.5°	313.7	311.7	313.4	308.6	305.9	305.5	301.8	305.2	307.2	309.6	304.9
35°	283.8	281.1	276.3	274.9	273.2	273.9	272.1	270.5	271.8	273.9	275.3
37.5°	268.4	264.3	257.5	255.2	255.2	256.2	253.5	252.8	255.2	261.6	265.0
40°	256.5	251.8	244.0	240.9	242.9	245.7	241.9	240.5	246.3	253.1	258.6
42.5°	245.3	241.5	234.1	230.7	232.4	237.5	232.0	231.0	238.5	246.0	252.5
45°	235.8	232.0	225.2	223.5	224.2	229.0	225.2	225.2	232.4	240.5	246.3
47.5°	228.3	223.5	219.1	217.7	218.4	221.2	220.4	220.4	227.2	235.8	241.5
50°	220.8	216.7	210.9	211.6	213.4	217.1	216.7	217.7	224.5	235.1	241.2
52.5°	217.4	211.3	204.8	205.5	210.6	215.0	213.7	214.7	222.5	242.2	251.1
55°	213.7	205.5	198.0	199.1	204.8	211.3	209.6	210.9	220.1	247.0	259.3
57.5°	206.5	197.0	188.8	189.5	198.0	204.8	202.1	203.8	214.7	241.9	254.8
58°	203.4	195.3	187.5	187.8	196.0	203.4	200.4	201.8	212.9	240.5	252.8
60°	190.5	185.8	179.0	179.3	187.1	193.6	191.9	193.3	204.1	230.7	239.9
62.5°	172.8	170.1	168.5	168.5	173.2	179.3	181.0	182.7	192.6	208.6	216.7
65°	153.8	153.8	154.2	154.2	157.2	165.0	166.0	170.5	179.6	187.5	193.6
67.5°	140.9	140.2	140.9	139.2	140.5	145.2	150.4	154.5	164.0	169.5	171.5
70°	124.2	123.9	124.2	121.8	123.5	127.6	131.0	137.8	147.7	151.7	152.7
72.5°	107.8	107.8	108.6	106.8	106.8	111.3	113.6	121.1	130.3	132.7	133.0
75°	90.8	91.8	91.8	89.5	90.2	92.8	96.0	102.1	110.6	112.3	112.3
77.5°	72.2	75.9	75.9	73.5	74.5	74.8	79.0	82.0	88.5	89.1	86.5
80°	52.4	56.2	59.2	57.2	58.9	56.9	59.2	61.2	67.7	64.7	60.2
82.5°	37.4	40.1	42.6	42.9	41.2	37.4	40.5	40.8	43.9	39.8	37.4
85°	20.8	23.1	26.2	24.8	22.1	19.8	20.8	21.4	21.1	20.1	18.8
87.5°	5.5	5.8	6.5	4.8	4.5	3.8	5.1	5.1	5.8	6.1	5.8
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: P650696
 CATALOG NUMBER: GALN-SA1C-840-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2
2.5°	1102.0	1116.9	1149.3	1173.8	1203.7	1240.1	1282.9	1326.2	1372.8	1387.4	1407.8
5°	911.8	949.2	964.9	1009.5	1053.7	1120.0	1190.8	1272.8	1362.6	1405.8	1447.3
7.5°	779.1	799.2	815.5	848.1	901.2	981.9	1070.7	1173.1	1300.4	1363.3	1424.1
10°	707.7	709.7	729.8	770.3	816.5	887.7	971.7	1086.3	1228.2	1304.7	1376.2
12.5°	660.4	651.5	673.3	715.5	767.9	833.5	910.8	1020.0	1176.1	1254.8	1341.1
15°	618.9	604.9	621.2	664.5	716.2	793.4	876.4	992.1	1155.7	1247.3	1343.2
17.5°	619.9	581.5	587.2	623.6	675.0	753.6	854.3	991.0	1186.7	1292.2	1405.8
20°	696.4	634.9	608.6	615.4	665.1	750.8	864.5	1038.7	1288.4	1442.2	1563.7
22.5°	771.6	734.5	692.4	678.4	705.6	795.4	929.5	1151.3	1509.6	1741.3	1960.7
25°	745.5	777.1	766.5	746.8	752.9	827.5	973.7	1243.8	1681.4	1942.4	2148.5
27.5°	596.4	653.9	665.5	665.1	667.5	728.7	875.7	1181.6	1702.9	1980.8	2177.8
30°	419.2	424.3	430.4	442.3	453.2	508.0	685.2	1037.4	1693.3	1998.1	2195.4
32.5°	302.4	309.2	317.7	334.1	359.9	429.7	599.5	991.4	1743.6	2070.0	2247.2
35°	276.6	284.4	292.6	311.3	335.8	400.5	565.5	972.4	1826.3	2186.3	2340.1
37.5°	268.4	277.3	284.4	298.1	317.7	379.4	534.5	959.4	1911.0	2309.5	2464.6
40°	262.6	272.8	278.6	289.6	303.2	359.9	507.0	949.2	1993.0	2422.1	2564.6
42.5°	257.5	268.1	275.6	283.4	294.6	342.6	482.4	939.0	2064.2	2531.2	2664.3
45°	251.5	264.7	274.3	280.3	290.2	328.0	463.7	930.8	2145.1	2628.2	2765.0
47.5°	246.3	261.0	272.8	280.0	283.8	317.7	448.8	942.1	2242.4	2729.6	2858.6
50°	246.7	260.6	275.6	286.8	276.9	309.2	439.6	986.7	2369.0	2850.1	2932.4
52.5°	257.5	274.6	286.4	289.2	267.4	299.1	434.8	1064.5	2518.7	2956.5	3006.9
55°	269.8	287.5	300.4	298.7	262.3	286.1	433.8	1147.5	2682.6	3080.8	3103.9
57.5°	265.3	291.2	311.0	302.1	262.6	273.6	429.3	1214.6	2819.8	3173.6	3199.8
58°	264.0	289.9	312.3	301.4	261.6	269.8	428.3	1220.4	2838.8	3180.1	3213.4
60°	250.8	278.0	311.3	296.4	255.8	259.6	417.1	1239.1	2833.7	3146.7	3221.5
62.5°	226.6	249.0	287.8	271.5	238.2	246.0	391.9	1215.9	2695.6	2986.1	3102.1
65°	199.4	216.1	241.9	238.8	212.9	232.0	357.6	1124.4	2419.0	2725.5	2847.6
67.5°	179.0	192.6	208.9	204.4	191.6	213.4	320.5	969.7	2108.7	2412.5	2566.3
70°	158.2	168.8	176.9	173.8	169.8	194.9	287.5	786.9	1811.3	2115.2	2264.2
72.5°	137.1	147.0	153.8	149.4	147.0	175.5	260.6	610.7	1430.6	1745.0	1936.6
75°	114.6	124.6	129.3	124.2	122.8	154.8	220.8	456.2	1073.4	1345.3	1510.6
77.5°	88.8	99.3	105.5	103.8	104.5	127.2	178.3	312.3	767.6	916.9	1091.1
80°	62.2	73.8	77.9	76.2	81.0	97.0	125.9	198.4	529.4	595.1	717.9
82.5°	38.4	49.4	50.0	51.7	55.1	71.8	94.9	120.8	332.4	343.6	432.8
85°	19.4	23.5	25.1	27.9	30.9	43.9	54.1	74.8	214.0	162.0	241.9
87.5°	6.5	6.8	8.2	10.2	12.6	18.0	23.1	30.6	53.1	29.3	74.8
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: P650696
 CATALOG NUMBER: GALN-SA1C-840-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2	1294.2
2.5°	1449.0	1477.9	1499.0	1518.4	1499.7	1498.0	1479.7	1450.1	1437.8	1437.8
5°	1534.4	1602.1	1656.9	1691.9	1677.0	1640.9	1581.3	1505.5	1464.7	1457.5
7.5°	1557.9	1691.6	1793.3	1829.3	1804.2	1724.6	1610.6	1482.7	1424.1	1411.3
10°	1543.6	1717.4	1866.8	1924.0	1888.9	1768.5	1613.0	1456.2	1384.0	1369.1
12.5°	1528.6	1720.9	1880.4	1963.1	1940.3	1803.9	1630.4	1438.8	1355.4	1334.0
15°	1539.5	1722.2	1863.7	1949.1	1963.7	1846.4	1659.0	1451.4	1349.6	1326.8
17.5°	1608.2	1748.1	1839.9	1909.0	1960.4	1904.2	1740.3	1511.6	1401.4	1373.1
20°	1751.8	1810.0	1853.6	1907.0	1989.6	2022.3	1906.6	1677.0	1546.7	1521.8
22.5°	2167.6	2157.0	2067.9	2066.8	2186.6	2317.6	2309.8	2013.1	1817.1	1796.7
25°	2323.3	2274.4	2145.5	2114.1	2166.9	2369.0	2339.7	2081.8	1900.8	1851.1
27.5°	2262.5	2141.0	2056.3	2049.2	2031.8	2222.7	2293.1	2109.7	1930.1	1881.7
30°	2258.8	2080.1	1959.0	1973.3	1990.0	2172.3	2319.0	2197.2	2004.9	1953.2
32.5°	2267.9	2088.6	1966.2	1968.9	2018.6	2179.8	2347.6	2292.4	2103.3	2051.5
35°	2305.0	2137.0	2011.8	2005.3	2082.8	2228.8	2396.2	2442.1	2237.6	2178.8
37.5°	2364.9	2233.2	2095.1	2093.4	2206.0	2317.3	2456.7	2593.1	2371.4	2308.0
40°	2453.0	2345.8	2243.5	2234.3	2373.4	2461.2	2535.4	2754.1	2526.9	2445.5
42.5°	2559.5	2480.9	2439.1	2475.5	2609.2	2622.7	2657.8	2902.8	2659.2	2564.6
45°	2658.1	2654.4	2712.6	2809.2	2887.2	2805.5	2785.7	3002.5	2761.9	2659.2
47.5°	2775.6	2876.9	3052.5	3194.0	3275.7	3018.1	2895.0	3067.5	2836.8	2742.2
50°	2894.6	3143.3	3423.6	3621.0	3638.3	3249.1	2970.2	3128.7	2904.8	2806.5
52.5°	3019.8	3355.9	3729.2	3958.5	3924.8	3450.2	3043.0	3170.2	2974.9	2888.5
55°	3128.7	3486.3	3900.0	4120.1	4070.8	3572.7	3121.5	3215.1	3074.9	3002.1
57.5°	3189.6	3497.1	3857.4	4049.7	3996.3	3548.9	3157.6	3248.4	3138.9	3081.8
58°	3198.4	3482.5	3819.7	4008.9	3954.4	3528.8	3157.3	3247.1	3143.0	3085.5
60°	3190.6	3387.6	3679.2	3847.6	3790.4	3402.9	3144.3	3221.5	3091.3	3042.7
62.5°	3118.2	3223.0	3436.6	3559.1	3542.7	3206.2	3091.3	3125.3	2933.7	2886.8
65°	3022.9	2998.4	3126.0	3212.7	3225.0	3059.0	3038.5	2917.1	2731.7	2665.3
67.5°	2907.2	2743.9	2743.6	2792.9	2813.3	2832.3	2928.6	2690.9	2440.4	2370.4
70°	2710.9	2351.6	2243.5	2301.6	2284.6	2445.5	2732.3	2373.0	2089.3	2007.3
72.5°	2350.9	1866.1	1692.9	1767.8	1724.9	1917.8	2390.7	1952.9	1727.7	1626.9
75°	1905.6	1396.0	1217.3	1286.1	1259.5	1454.8	1989.3	1418.4	1239.1	1200.6
77.5°	1479.7	1011.5	907.7	898.2	918.0	1082.6	1459.2	957.7	816.9	790.7
80°	950.6	724.0	730.2	717.9	728.1	682.5	885.9	611.1	553.2	532.1
82.5°	625.7	504.5	601.5	555.2	527.3	458.9	581.1	400.1	339.5	328.0
85°	426.3	371.6	338.2	258.6	304.5	353.5	435.8	215.4	170.8	154.8
87.5°	192.6	129.3	94.9	58.5	92.5	106.8	211.6	25.1	19.4	20.1
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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