

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: P458557

Luminaire Tested: **GALN-SA1B-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458557
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-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 4623 lumens
Efficiency: N/A
Efficacy: 105.1 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 (A_{in}): 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

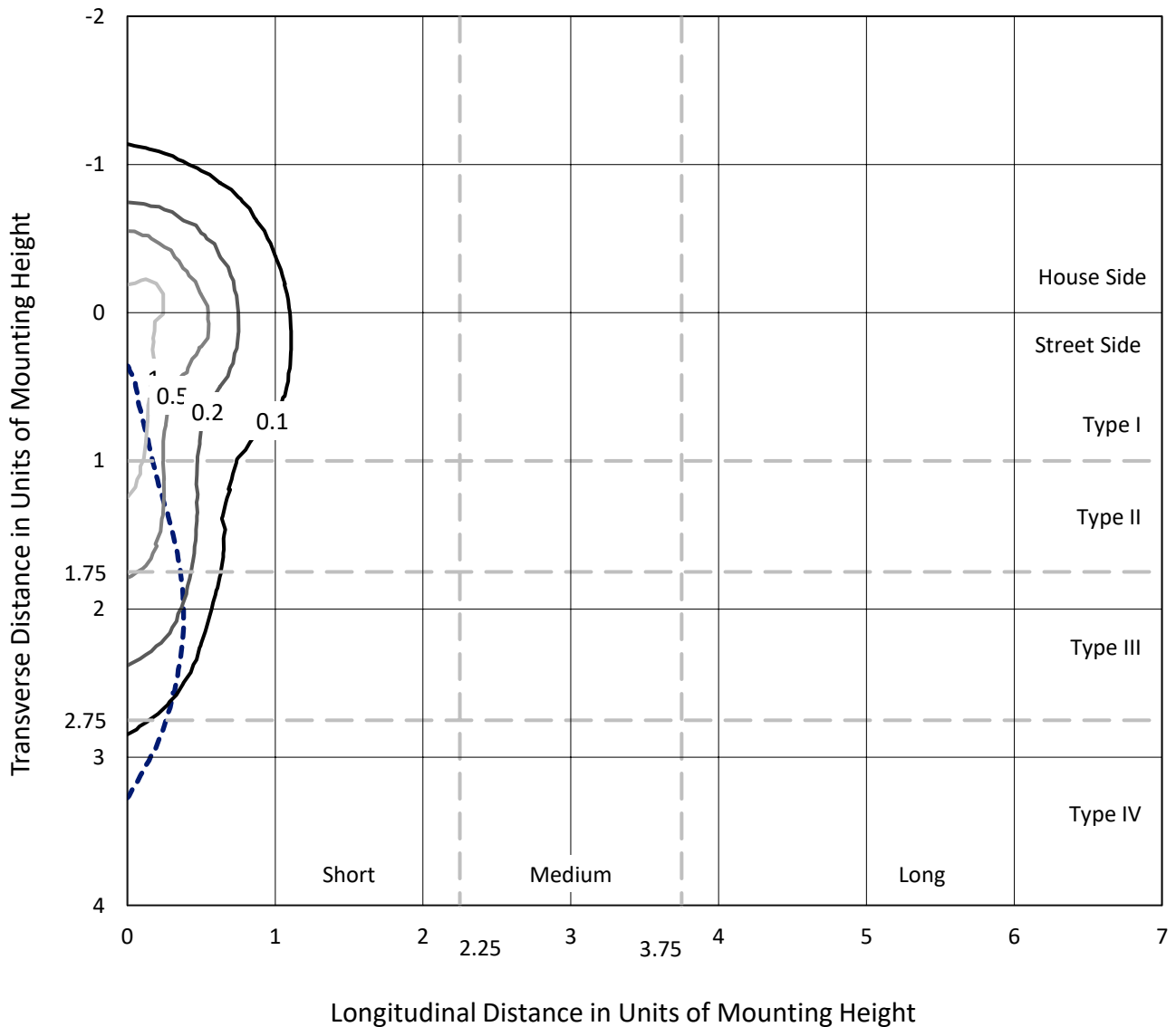




REPORT NUMBER: P458557
 CATALOG NUMBER: GALN-SA1B-735-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

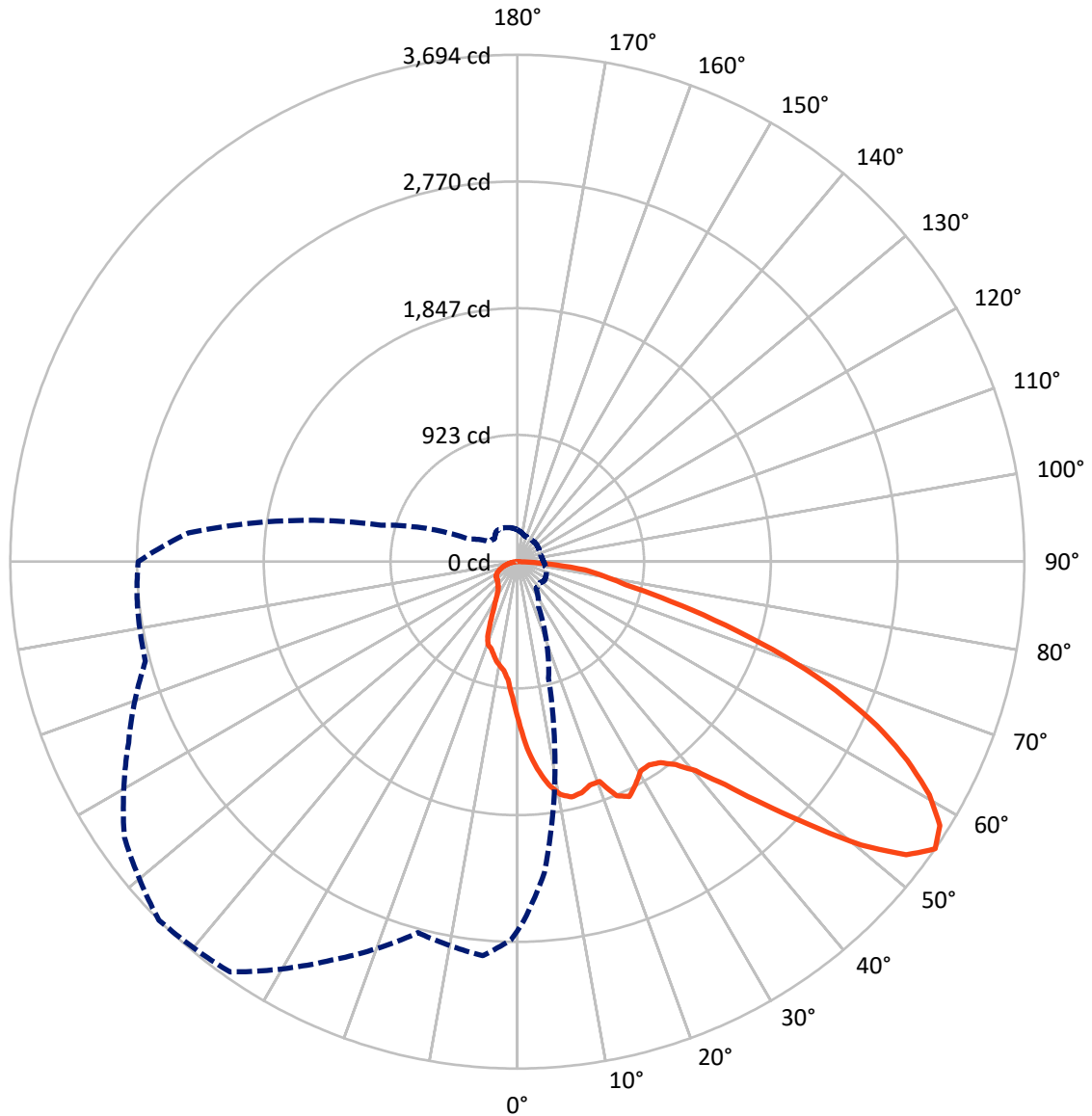
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

REPORT NUMBER: P458557
CATALOG NUMBER: GALN-SA1B-735-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458557

CATALOG NUMBER: GALN-SA1B-735-U-SLR

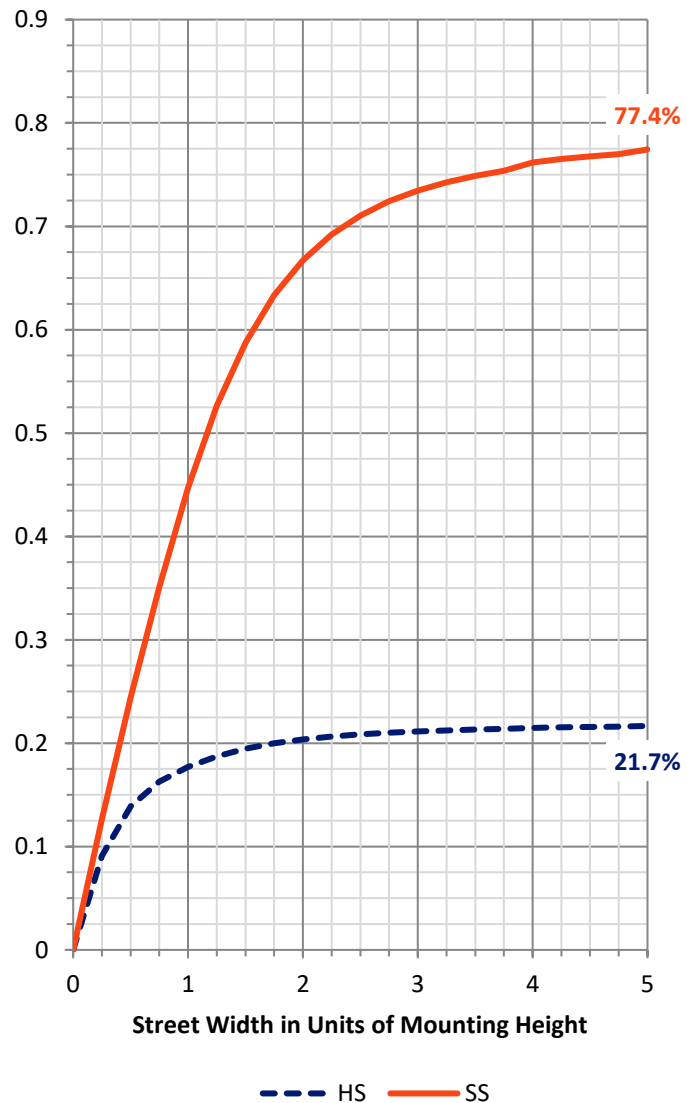
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.3	0.0	1011.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3611.7	0.0	3611.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	4623.0	0.0	4623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	2.1
10°-20°	260.9	5.6
20°-30°	450.7	9.7
30°-40°	523.7	11.3
40°-50°	730.7	15.8
50°-60°	991.5	21.4
60°-70°	943.3	20.4
70°-80°	509.6	11.0
80°-90°	114.2	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°	4623.0	100.0
0°-180°	4623.0	100.0



REPORT NUMBER: P458557

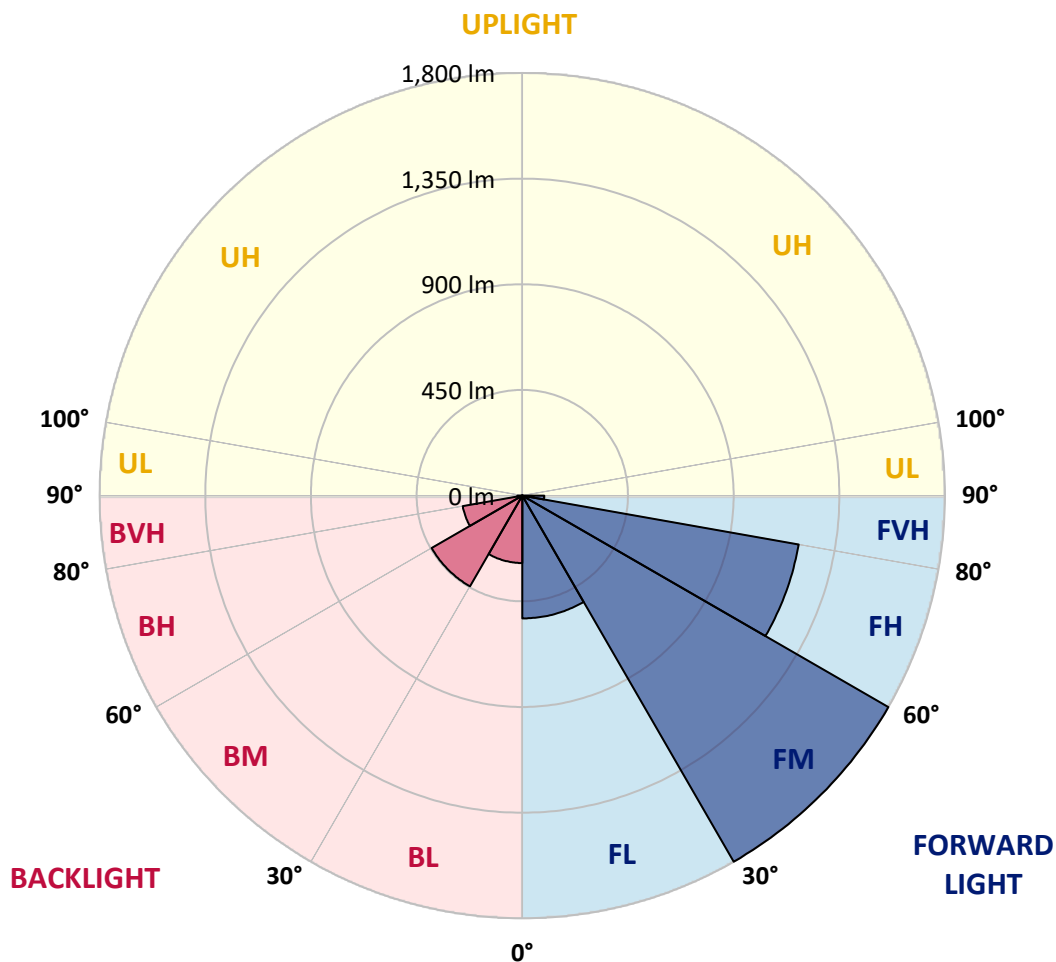
CATALOG NUMBER: GALN-SA1B-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.9	11.3			
FM (30°-60°)	1800.1	38.9			
FH (60°-80°)	1195.4	25.9			G1/1800
FVH (80°-90°)	93.3	2.0			G1/100
BL (0°-30°)	287.0	6.2	B1/500		
BM (30°-60°)	445.9	9.6	B1/1000		
BH (60°-80°)	257.5	5.6	B1/500		G1/500
BVH (80°-90°)	20.9	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: P458557

CATALOG NUMBER: GALN-SA1B-735-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2
2.5°	1288.9	1284.0	1270.3	1234.3	1198.0	1161.1	1132.7	1097.4	1060.5	1040.6	1015.3
5°	1306.6	1301.1	1268.8	1187.6	1114.1	1037.0	975.4	921.4	899.4	867.1	841.2
7.5°	1265.1	1262.7	1214.2	1097.7	997.0	896.1	826.2	782.9	743.6	728.9	732.0
10°	1227.3	1217.5	1156.8	1004.6	887.2	805.2	755.2	712.8	685.0	677.7	679.2
12.5°	1195.9	1182.8	1111.1	942.1	839.3	773.8	710.0	665.8	640.5	647.5	671.3
15°	1189.5	1171.8	1091.9	920.8	813.1	728.6	658.8	607.9	588.9	604.2	642.3
17.5°	1231.0	1208.7	1124.8	927.8	788.1	682.6	596.9	538.6	522.8	547.2	596.9
20°	1364.2	1331.3	1227.6	968.4	785.7	659.7	560.9	502.3	509.0	555.4	607.2
22.5°	1610.7	1561.3	1407.5	1027.5	798.5	653.9	553.6	523.1	560.0	599.3	633.5
25°	1659.5	1620.7	1439.9	1040.9	795.7	649.9	574.3	589.6	630.7	650.2	638.3
27.5°	1686.9	1642.7	1437.7	974.5	711.5	589.6	549.0	574.3	584.7	565.8	533.4
30°	1751.0	1704.9	1474.0	904.6	585.9	437.4	383.4	373.0	380.0	383.7	372.1
32.5°	1839.1	1793.7	1542.3	858.9	506.6	361.7	308.7	294.0	290.7	286.7	282.1
35°	1953.2	1883.3	1609.4	829.6	474.0	334.6	285.8	274.5	269.9	264.4	259.5
37.5°	2069.1	1995.9	1694.2	798.8	452.3	315.7	270.5	265.3	257.4	251.6	244.6
40°	2192.3	2110.2	1771.4	771.9	431.3	303.5	259.5	258.9	248.6	241.9	233.6
42.5°	2299.0	2214.6	1840.3	755.5	415.1	290.7	252.8	254.7	244.0	233.9	223.3
45°	2383.8	2300.9	1904.1	755.5	402.0	277.8	251.6	250.4	239.7	227.2	215.0
47.5°	2458.2	2372.5	1966.3	774.7	393.7	267.2	244.9	247.0	236.1	220.2	208.3
50°	2515.9	2440.2	2050.2	804.6	385.5	258.6	236.4	248.0	233.0	216.5	202.8
52.5°	2589.4	2521.7	2151.1	845.4	378.5	249.2	228.7	248.0	232.7	216.8	201.9
55°	2691.3	2619.9	2272.8	879.3	367.2	240.3	222.0	240.9	231.8	215.3	199.5
57.5°	2762.6	2709.3	2358.8	901.9	351.0	229.0	215.9	234.2	227.8	209.5	192.1
58°	2766.0	2713.8	2371.3	907.0	347.1	226.9	214.4	231.2	226.0	207.1	189.7
60°	2727.6	2682.7	2373.8	899.7	324.5	216.2	206.5	218.7	216.2	192.8	176.6
62.5°	2587.9	2540.0	2275.2	840.3	294.6	203.1	194.3	201.9	196.4	172.6	157.7
65°	2389.3	2301.2	2072.7	746.9	273.3	189.1	177.8	178.4	172.6	155.5	142.4
67.5°	2124.9	2026.4	1754.9	629.5	257.1	173.5	158.3	156.8	149.8	138.8	128.1
70°	1799.5	1732.1	1426.1	512.1	239.1	156.5	136.3	135.4	131.1	122.9	113.5
72.5°	1458.5	1372.8	1151.7	409.9	217.2	140.0	115.9	117.7	112.2	106.4	97.9
75°	1076.3	1020.2	890.3	328.8	187.6	122.0	96.7	97.3	94.9	88.8	82.0
77.5°	708.8	692.0	636.8	215.9	144.3	97.0	79.0	79.6	77.8	72.3	65.3
80°	477.0	465.7	431.6	139.1	96.4	70.1	61.0	61.6	61.3	55.5	46.1
82.5°	294.0	289.1	278.2	93.9	66.8	50.3	40.3	42.1	45.4	39.0	31.4
85°	138.8	139.1	168.1	51.2	39.3	32.3	22.0	23.5	23.5	23.5	17.7
87.5°	18.0	18.9	23.2	21.7	14.3	12.2	7.9	6.7	5.8	7.6	5.5
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: P458557
 CATALOG NUMBER: GALN-SA1B-735-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2
2.5°	1006.5	1000.4	987.3	984.2	982.4	987.6	973.8	977.5	971.4	988.5	985.7
5°	842.7	843.3	854.0	861.0	863.4	861.0	851.8	836.0	823.8	818.9	820.1
7.5°	726.2	736.9	755.2	775.6	794.2	799.7	794.5	764.3	731.4	710.6	703.9
10°	687.5	701.8	722.8	739.0	755.5	768.6	771.3	747.8	708.8	659.7	640.5
12.5°	689.6	709.1	729.2	734.4	732.9	738.1	735.6	731.7	706.1	643.5	611.5
15°	669.5	692.6	706.7	703.9	699.0	694.5	688.1	678.0	668.8	624.9	589.6
17.5°	623.1	646.9	658.5	659.4	659.4	658.2	642.6	639.0	637.7	616.4	594.7
20°	631.6	644.8	639.6	631.0	633.5	641.7	632.6	630.7	637.7	647.2	643.2
22.5°	636.5	631.9	592.9	555.1	546.5	572.2	577.4	597.8	626.2	660.3	682.6
25°	606.3	569.4	499.6	456.9	432.8	456.6	487.7	525.5	567.9	611.8	637.7
27.5°	506.9	478.8	428.8	390.4	369.3	373.0	399.5	434.0	473.3	502.9	521.8
30°	381.9	369.3	343.4	330.3	317.5	314.4	325.7	338.8	356.2	359.9	364.8
32.5°	281.2	279.4	280.9	276.6	274.2	273.9	270.5	273.6	275.4	277.5	273.3
35°	254.4	251.9	247.7	246.4	244.9	245.5	244.0	242.5	243.7	245.5	246.7
37.5°	240.6	237.0	230.9	228.7	228.7	229.7	227.2	226.6	228.7	234.5	237.6
40°	230.0	225.7	218.7	215.9	217.8	220.2	216.8	215.6	220.8	226.9	231.8
42.5°	219.9	216.5	209.8	206.8	208.3	212.9	208.0	207.1	213.8	220.5	226.3
45°	211.4	208.0	201.9	200.4	201.0	205.3	201.9	201.9	208.3	215.6	220.8
47.5°	204.7	200.4	196.4	195.2	195.8	198.2	197.6	197.6	203.7	211.4	216.5
50°	197.9	194.3	189.1	189.7	191.2	194.6	194.3	195.2	201.3	210.7	216.2
52.5°	194.9	189.4	183.6	184.2	188.8	192.8	191.5	192.5	199.5	217.2	225.1
55°	191.5	184.2	177.5	178.4	183.6	189.4	187.9	189.1	197.3	221.4	232.4
57.5°	185.1	176.6	169.3	169.9	177.5	183.6	181.2	182.7	192.5	216.8	228.4
58°	182.4	175.1	168.1	168.4	175.7	182.4	179.6	180.9	190.9	215.6	226.6
60°	170.8	166.5	160.4	160.7	167.7	173.5	172.0	173.2	183.0	206.8	215.0
62.5°	154.9	152.5	151.0	151.0	155.2	160.7	162.3	163.8	172.6	187.0	194.3
65°	137.9	137.9	138.2	138.2	140.9	147.9	148.8	152.8	161.0	168.1	173.5
67.5°	126.3	125.7	126.3	124.7	126.0	130.2	134.8	138.5	147.0	151.9	153.7
70°	111.3	111.0	111.3	109.2	110.7	114.4	117.4	123.5	132.4	136.0	136.9
72.5°	96.7	96.7	97.3	95.8	95.8	99.7	101.9	108.6	116.8	118.9	119.3
75°	81.4	82.3	82.3	80.2	80.8	83.3	86.0	91.5	99.1	100.6	100.6
77.5°	64.7	68.0	68.0	65.9	66.8	67.1	70.8	73.5	79.3	79.9	77.5
80°	47.0	50.3	53.1	51.2	52.8	50.9	53.1	54.9	60.7	57.9	54.0
82.5°	33.5	36.0	38.1	38.4	36.9	33.5	36.3	36.6	39.3	35.7	33.5
85°	18.6	20.7	23.5	22.3	19.8	17.7	18.6	19.2	18.9	18.0	16.8
87.5°	4.9	5.2	5.8	4.3	4.0	3.4	4.6	4.6	5.2	5.5	5.2
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: P458557
 CATALOG NUMBER: GALN-SA1B-735-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2
2.5°	987.9	1001.3	1030.3	1052.2	1079.1	1111.7	1150.1	1188.9	1230.6	1243.8	1262.1
5°	817.4	850.9	865.0	904.9	944.6	1004.0	1067.5	1141.0	1221.5	1260.2	1297.4
7.5°	698.4	716.4	731.1	760.3	807.9	880.2	959.8	1051.6	1165.7	1222.1	1276.7
10°	634.4	636.2	654.2	690.5	732.0	795.7	871.1	973.8	1101.0	1169.6	1233.7
12.5°	592.0	584.1	603.6	641.4	688.4	747.2	816.5	914.4	1054.4	1124.8	1202.3
15°	554.8	542.3	556.9	595.7	642.0	711.2	785.7	889.4	1036.1	1118.1	1204.1
17.5°	555.7	521.2	526.4	559.1	605.1	675.6	765.8	888.4	1063.8	1158.4	1260.2
20°	624.3	569.1	545.6	551.7	596.3	673.1	775.0	931.1	1155.0	1292.9	1401.7
22.5°	691.7	658.5	620.7	608.2	632.6	713.1	833.2	1032.1	1353.3	1561.0	1757.7
25°	668.2	696.6	687.1	669.5	674.9	741.7	872.9	1115.1	1507.3	1741.2	1926.0
27.5°	534.7	586.2	596.6	596.3	598.4	653.3	785.1	1059.2	1526.5	1775.7	1952.3
30°	375.8	380.3	385.8	396.5	406.3	455.4	614.3	929.9	1517.9	1791.2	1968.1
32.5°	271.1	277.2	284.9	299.5	322.7	385.2	537.4	888.7	1563.1	1855.6	2014.5
35°	248.0	255.0	262.3	279.1	301.0	359.0	506.9	871.7	1637.2	1959.9	2097.7
37.5°	240.6	248.6	255.0	267.2	284.9	340.1	479.1	860.1	1713.1	2070.3	2209.4
40°	235.5	244.6	249.8	259.5	271.7	322.7	454.4	850.9	1786.6	2171.2	2299.0
42.5°	230.9	240.3	247.0	254.1	264.1	307.1	432.5	841.8	1850.4	2269.1	2388.4
45°	225.4	237.3	245.8	251.3	260.2	294.0	415.7	834.5	1923.0	2356.1	2478.7
47.5°	220.8	233.9	244.6	251.0	254.4	284.9	402.3	844.5	2010.2	2447.0	2562.5
50°	221.1	233.6	247.0	257.1	248.3	277.2	394.1	884.5	2123.7	2554.9	2628.7
52.5°	230.9	246.1	256.8	259.2	239.7	268.1	389.8	954.3	2257.9	2650.4	2695.5
55°	241.9	257.7	269.3	267.8	235.1	256.5	388.9	1028.7	2404.9	2761.7	2782.4
57.5°	237.9	261.1	278.8	270.8	235.5	245.2	384.9	1088.8	2527.8	2845.0	2868.5
58°	236.7	259.9	280.0	270.2	234.5	241.9	384.0	1094.0	2544.9	2850.8	2880.7
60°	224.8	249.2	279.1	265.6	229.4	232.7	373.9	1110.8	2540.3	2820.9	2888.0
62.5°	203.1	223.3	258.0	243.4	213.5	220.5	351.4	1090.0	2416.5	2676.9	2780.9
65°	178.7	193.7	216.8	214.1	190.9	208.0	320.5	1008.0	2168.5	2443.3	2552.8
67.5°	160.4	172.6	187.3	183.3	171.7	191.2	287.3	869.2	1890.3	2162.7	2300.6
70°	141.8	151.3	158.6	155.9	152.2	174.8	257.7	705.4	1623.8	1896.1	2029.7
72.5°	122.9	131.8	137.9	133.9	131.8	157.4	233.6	547.5	1282.5	1564.3	1736.0
75°	102.8	111.6	115.9	111.3	110.1	138.8	197.9	409.0	962.3	1205.9	1354.2
77.5°	79.6	89.1	94.5	93.0	93.6	114.1	159.8	280.0	688.1	822.0	978.1
80°	55.8	66.2	69.8	68.3	72.6	86.9	112.8	177.8	474.6	533.4	643.5
82.5°	34.5	44.2	44.8	46.4	49.4	64.4	85.1	108.3	298.0	308.0	388.0
85°	17.4	21.0	22.6	25.0	27.8	39.3	48.5	67.1	191.8	145.2	216.8
87.5°	5.8	6.1	7.3	9.1	11.3	16.2	20.7	27.4	47.6	26.2	67.1
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: P458557

CATALOG NUMBER: GALN-SA1B-735-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2	1160.2
2.5°	1299.0	1324.9	1343.8	1361.2	1344.4	1342.9	1326.4	1299.9	1288.9	1288.9
5°	1375.5	1436.2	1485.3	1516.7	1503.3	1471.0	1417.6	1349.6	1313.0	1306.6
7.5°	1396.6	1516.4	1607.6	1639.9	1617.4	1546.0	1443.8	1329.2	1276.7	1265.1
10°	1383.8	1539.6	1673.5	1724.7	1693.3	1585.4	1446.0	1305.4	1240.7	1227.3
12.5°	1370.3	1542.7	1685.7	1759.8	1739.4	1617.1	1461.5	1289.8	1215.1	1195.9
15°	1380.1	1543.9	1670.8	1747.3	1760.4	1655.2	1487.1	1301.1	1209.9	1189.5
17.5°	1441.7	1567.1	1649.4	1711.3	1757.4	1707.0	1560.0	1355.1	1256.3	1231.0
20°	1570.4	1622.6	1661.6	1709.5	1783.6	1812.9	1709.2	1503.3	1386.5	1364.2
22.5°	1943.1	1933.7	1853.7	1852.8	1960.2	2077.6	2070.6	1804.6	1629.0	1610.7
25°	2082.8	2038.9	1923.3	1895.2	1942.5	2123.7	2097.4	1866.3	1704.0	1659.5
27.5°	2028.2	1919.3	1843.4	1837.0	1821.4	1992.5	2055.7	1891.3	1730.2	1686.9
30°	2024.8	1864.7	1756.1	1769.0	1783.9	1947.4	2078.8	1969.6	1797.3	1751.0
32.5°	2033.1	1872.4	1762.6	1765.0	1809.5	1954.1	2104.4	2055.0	1885.5	1839.1
35°	2066.3	1915.7	1803.4	1797.6	1867.2	1998.0	2148.1	2189.2	2005.9	1953.2
37.5°	2120.0	2002.0	1878.1	1876.6	1977.6	2077.3	2202.4	2324.7	2125.8	2069.1
40°	2199.0	2102.9	2011.1	2002.9	2127.6	2206.3	2272.8	2468.9	2265.2	2192.3
42.5°	2294.5	2224.0	2186.5	2219.1	2339.0	2351.2	2382.6	2602.2	2383.8	2299.0
45°	2382.9	2379.6	2431.7	2518.3	2588.2	2515.0	2497.3	2691.6	2475.9	2383.8
47.5°	2488.1	2579.0	2736.4	2863.3	2936.5	2705.6	2595.2	2749.8	2543.0	2458.2
50°	2594.9	2817.8	3069.1	3246.0	3261.6	2912.7	2662.6	2804.7	2604.0	2515.9
52.5°	2707.1	3008.4	3343.0	3548.6	3518.4	3092.9	2727.9	2841.9	2666.9	2589.4
55°	2804.7	3125.3	3496.1	3693.5	3649.2	3202.7	2798.3	2882.2	2756.5	2691.3
57.5°	2859.3	3135.0	3458.0	3630.3	3582.4	3181.4	2830.6	2912.1	2813.9	2762.6
58°	2867.2	3121.9	3424.2	3593.7	3544.9	3163.4	2830.3	2910.9	2817.5	2766.0
60°	2860.2	3036.8	3298.2	3449.2	3397.9	3050.5	2818.7	2888.0	2771.2	2727.6
62.5°	2795.3	2889.2	3080.7	3190.5	3175.9	2874.3	2771.2	2801.7	2630.0	2587.9
65°	2709.9	2687.9	2802.3	2880.0	2891.0	2742.2	2723.9	2615.0	2448.8	2389.3
67.5°	2606.2	2459.8	2459.5	2503.7	2522.0	2539.1	2625.4	2412.2	2187.7	2124.9
70°	2430.2	2108.1	2011.1	2063.3	2048.0	2192.3	2449.4	2127.3	1873.0	1799.5
72.5°	2107.5	1672.9	1517.6	1584.7	1546.3	1719.2	2143.2	1750.7	1548.8	1458.5
75°	1708.3	1251.4	1091.3	1152.9	1129.1	1304.1	1783.3	1271.5	1110.8	1076.3
77.5°	1326.4	906.7	813.7	805.2	822.9	970.5	1308.1	858.6	732.3	708.8
80°	852.1	649.0	654.5	643.5	652.7	611.8	794.2	547.8	495.9	477.0
82.5°	560.9	452.3	539.2	497.7	472.7	411.4	520.9	358.7	304.4	294.0
85°	382.2	333.1	303.2	231.8	273.0	316.9	390.7	193.1	153.1	138.8
87.5°	172.6	115.9	85.1	52.5	83.0	95.8	189.7	22.6	17.4	18.0
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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