

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: P647726

Luminaire Tested: **GALN-SA1A-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647726
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-SA1A-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3123.4 lumens
Efficiency: N/A
Efficacy: 94.6 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

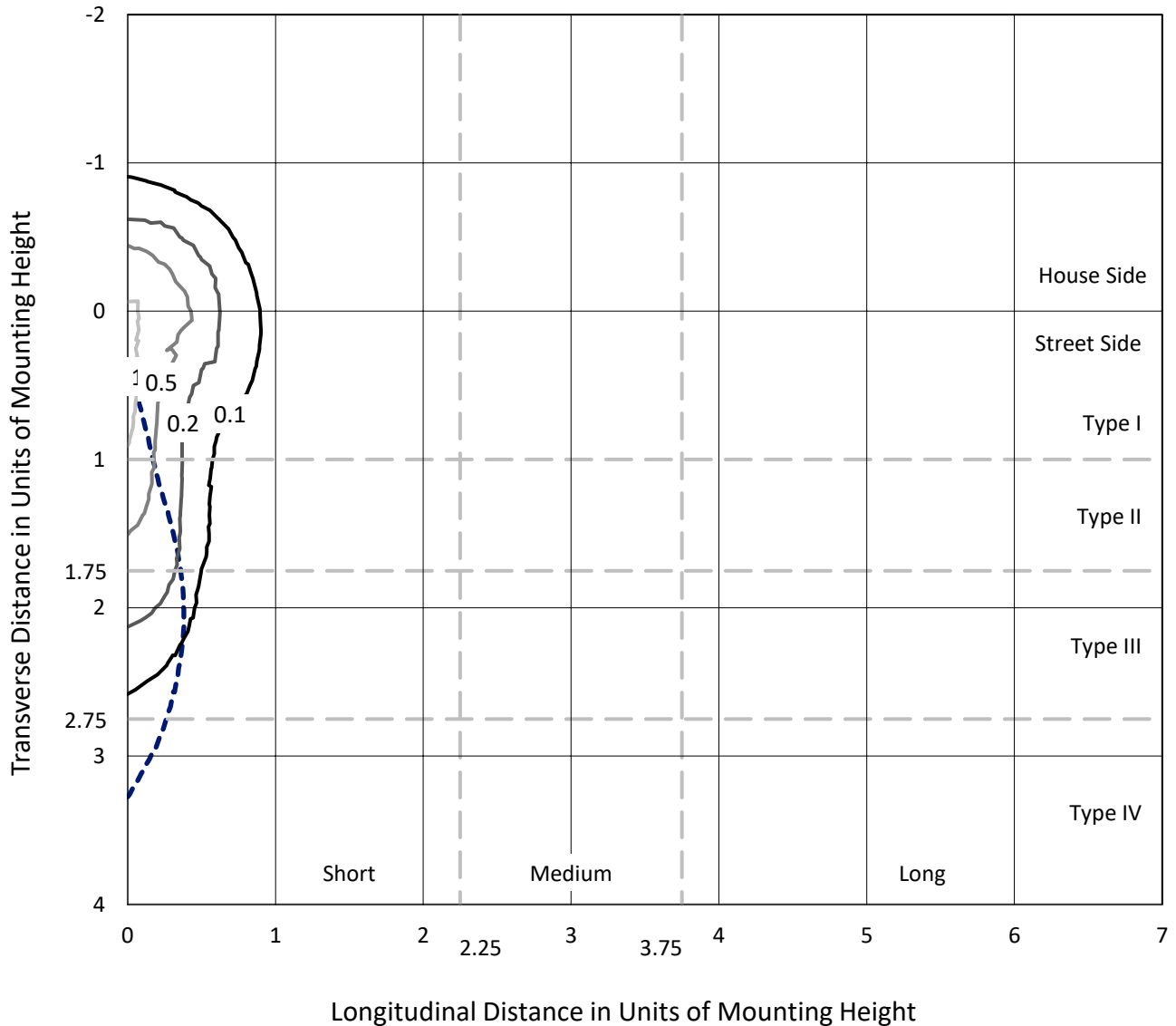
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647726
 CATALOG NUMBER: GALN-SA1A-835-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

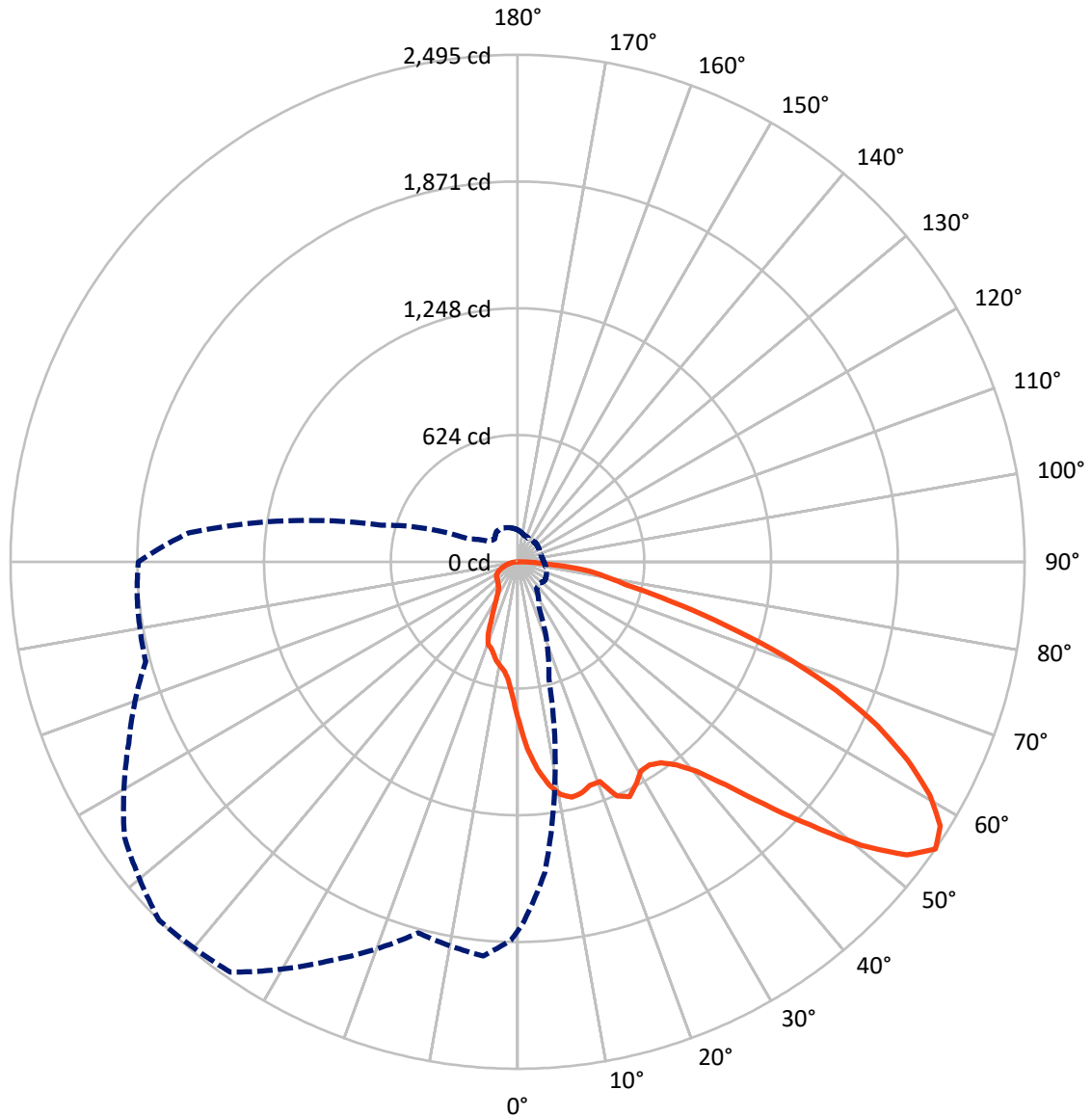
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P647726
CATALOG NUMBER: GALN-SA1A-835-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647726
 CATALOG NUMBER: GALN-SA1A-835-U-SLR

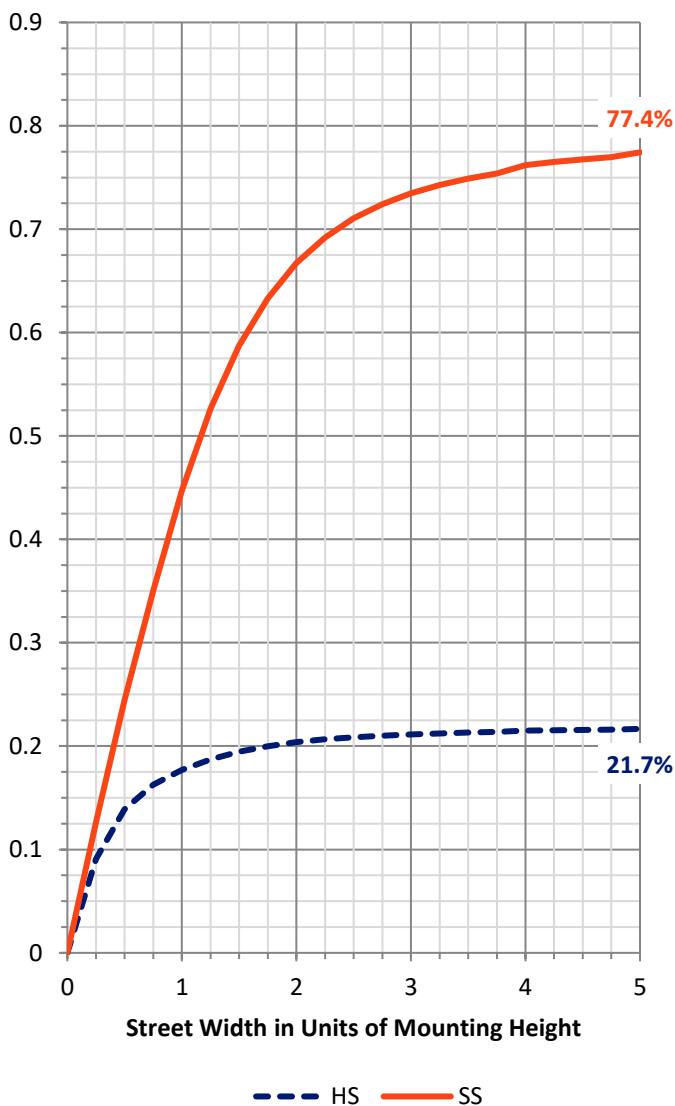
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	683.2	0.0	683.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2440.2	0.0	2440.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	3123.4	0.0	3123.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	2.1
10°-20°	176.3	5.6
20°-30°	304.5	9.7
30°-40°	353.9	11.3
40°-50°	493.7	15.8
50°-60°	669.9	21.4
60°-70°	637.3	20.4
70°-80°	344.3	11.0
80°-90°	77.2	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°	3123.4	100.0
0°-180°	3123.4	100.0

Coefficient of Utilization

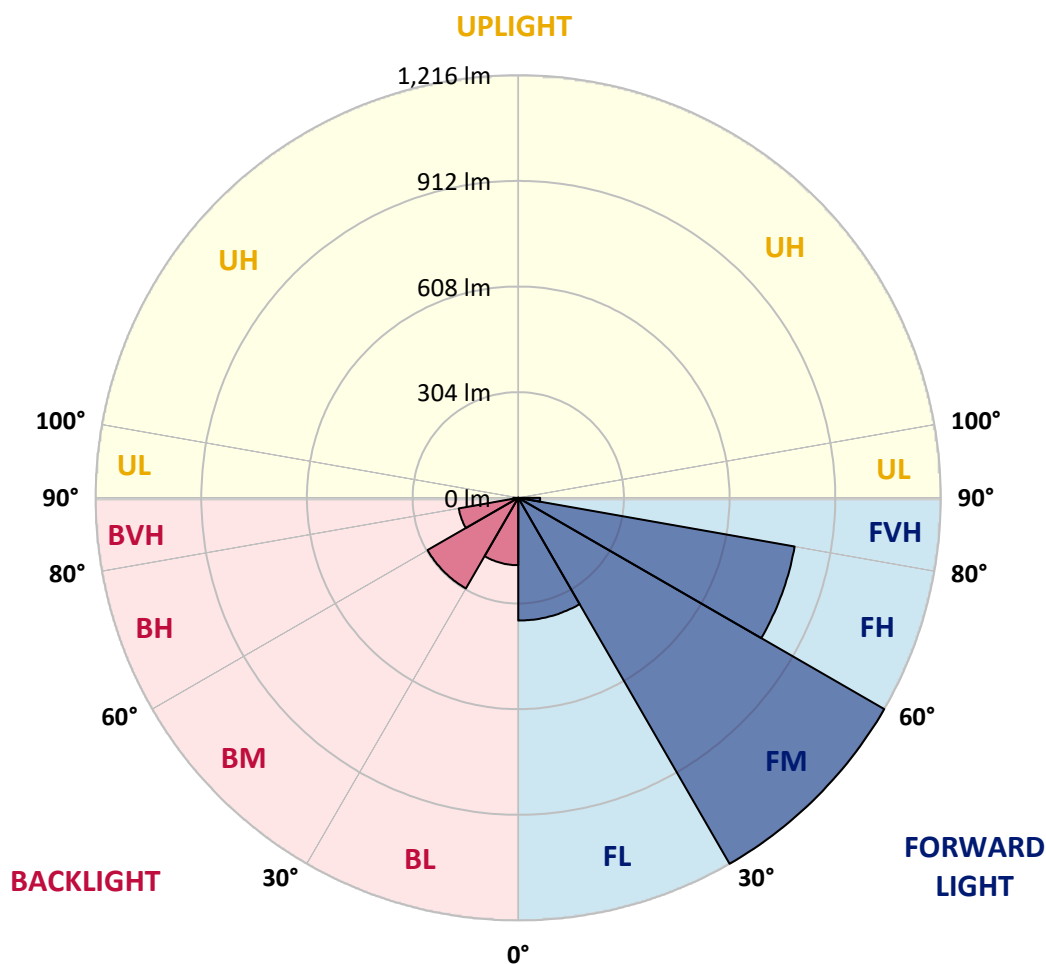


REPORT NUMBER: P647726
 CATALOG NUMBER: GALN-SA1A-835-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.3	11.3			
FM (30°-60°)	1216.2	38.9			
FH (60°-80°)	807.7	25.9			G1/1800
FVH (80°-90°)	63.1	2.0			G1/100
BL (0°-30°)	193.9	6.2	B1/500		
BM (30°-60°)	301.3	9.6	B1/1000		
BH (60°-80°)	174.0	5.6	B1/500		G1/500
BVH (80°-90°)	14.1	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: P647726
 CATALOG NUMBER: GALN-SA1A-835-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9
2.5°	870.8	867.5	858.2	833.9	809.4	784.5	765.3	741.4	716.4	703.1	686.0
5°	882.8	879.1	857.2	802.4	752.7	700.6	659.0	622.5	607.7	585.8	568.3
7.5°	854.7	853.1	820.3	741.6	673.6	605.4	558.2	528.9	502.4	492.5	494.5
10°	829.2	822.6	781.6	678.8	599.4	544.0	510.2	481.5	462.8	457.9	458.9
12.5°	808.0	799.1	750.7	636.5	567.0	522.8	479.7	449.8	432.7	437.5	453.5
15°	803.6	791.7	737.7	622.1	549.4	492.3	445.1	410.7	397.9	408.2	433.9
17.5°	831.6	816.6	760.0	626.9	532.4	461.2	403.2	363.9	353.2	369.7	403.2
20°	921.7	899.4	829.4	654.3	530.8	445.7	379.0	339.4	343.9	375.2	410.3
22.5°	1088.2	1054.8	951.0	694.2	539.5	441.8	374.0	353.4	378.3	404.9	428.0
25°	1121.2	1095.0	972.8	703.3	537.6	439.1	388.0	398.3	426.1	439.3	431.3
27.5°	1139.7	1109.8	971.4	658.3	480.8	398.3	370.9	388.0	395.0	382.3	360.4
30°	1183.0	1151.9	995.9	611.2	395.8	295.5	259.0	252.0	256.7	259.3	251.4
32.5°	1242.5	1211.8	1042.0	580.3	342.2	244.4	208.5	198.6	196.4	193.7	190.6
35°	1319.6	1272.4	1087.4	560.5	320.2	226.1	193.1	185.4	182.4	178.7	175.4
37.5°	1397.9	1348.5	1144.7	539.6	305.6	213.3	182.8	179.3	173.9	170.0	165.3
40°	1481.1	1425.7	1196.8	521.6	291.4	205.1	175.4	174.9	168.0	163.4	157.9
42.5°	1553.2	1496.2	1243.3	510.4	280.5	196.4	170.9	172.0	164.8	158.0	150.8
45°	1610.6	1554.5	1286.4	510.4	271.6	187.7	170.0	169.2	161.9	153.5	145.2
47.5°	1660.8	1603.0	1328.4	523.4	266.0	180.5	165.4	166.9	159.5	148.8	140.7
50°	1699.8	1648.7	1385.1	543.6	260.4	174.8	159.7	167.6	157.5	146.3	137.0
52.5°	1749.5	1703.7	1453.3	571.2	255.7	168.3	154.6	167.6	157.2	146.5	136.4
55°	1818.3	1770.0	1535.5	594.1	248.1	162.4	150.0	162.8	156.6	145.5	134.8
57.5°	1866.5	1830.4	1593.6	609.3	237.2	154.7	145.9	158.2	153.9	141.6	129.8
58°	1868.8	1833.6	1602.1	612.9	234.5	153.3	144.9	156.2	152.7	139.9	128.2
60°	1842.8	1812.5	1603.7	607.8	219.2	146.1	139.5	147.8	146.1	130.2	119.3
62.5°	1748.4	1716.0	1537.2	567.7	199.0	137.3	131.2	136.4	132.7	116.7	106.6
65°	1614.2	1554.7	1400.4	504.6	184.6	127.8	120.1	120.6	116.7	105.1	96.2
67.5°	1435.6	1369.1	1185.7	425.3	173.7	117.2	107.0	105.9	101.2	93.7	86.5
70°	1215.8	1170.2	963.6	346.0	161.5	105.7	92.1	91.5	88.6	83.1	76.7
72.5°	985.4	927.5	778.1	276.9	146.7	94.6	78.3	79.6	75.8	71.9	66.2
75°	727.2	689.3	601.5	222.1	126.7	82.4	65.3	65.7	64.0	60.0	55.4
77.5°	478.9	467.5	430.3	145.9	97.5	65.5	53.4	53.8	52.5	48.9	44.1
80°	322.3	314.7	291.6	94.0	65.1	47.4	41.2	41.7	41.4	37.5	31.1
82.5°	198.6	195.4	187.9	63.5	45.1	34.0	27.2	28.4	30.7	26.4	21.2
85°	93.7	94.0	113.5	34.6	26.5	21.8	14.8	15.9	15.9	15.9	12.0
87.5°	12.1	12.8	15.7	14.6	9.7	8.2	5.3	4.5	3.9	5.2	3.7
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: P647726
 CATALOG NUMBER: GALN-SA1A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9
2.5°	680.0	675.9	667.0	664.9	663.7	667.2	658.0	660.4	656.3	667.8	666.0
5°	569.3	569.8	577.0	581.7	583.3	581.7	575.5	564.8	556.6	553.3	554.1
7.5°	490.6	497.8	510.2	524.0	536.6	540.3	536.7	516.4	494.2	480.1	475.6
10°	464.5	474.1	488.4	499.3	510.4	519.3	521.1	505.3	478.9	445.7	432.7
12.5°	465.9	479.1	492.7	496.2	495.2	498.7	497.0	494.3	477.0	434.8	413.1
15°	452.3	467.9	477.5	475.6	472.3	469.2	464.9	458.1	451.9	422.2	398.3
17.5°	420.9	437.1	444.9	445.5	445.5	444.7	434.2	431.7	430.9	416.5	401.8
20°	426.7	435.6	432.1	426.3	428.0	433.5	427.4	426.1	430.9	437.2	434.6
22.5°	430.0	427.0	400.6	375.1	369.3	386.6	390.1	403.9	423.1	446.2	461.2
25°	409.7	384.7	337.6	308.7	292.4	308.5	329.5	355.0	383.7	413.3	430.9
27.5°	342.5	323.5	289.7	263.8	249.5	252.0	269.9	293.2	319.8	339.8	352.6
30°	258.0	249.5	232.0	223.2	214.5	212.4	220.1	228.9	240.7	243.1	246.4
32.5°	190.0	188.8	189.8	186.9	185.3	185.0	182.8	184.9	186.0	187.5	184.6
35°	171.9	170.2	167.3	166.5	165.4	165.8	164.8	163.8	164.7	165.8	166.7
37.5°	162.6	160.1	156.0	154.6	154.6	155.2	153.5	153.1	154.6	158.5	160.5
40°	155.3	152.5	147.8	145.9	147.1	148.8	146.5	145.7	149.2	153.3	156.6
42.5°	148.5	146.3	141.8	139.7	140.7	143.8	140.5	139.9	144.5	149.0	152.9
45°	142.8	140.5	136.4	135.4	135.8	138.7	136.4	136.4	140.7	145.7	149.2
47.5°	138.3	135.4	132.7	131.9	132.3	134.0	133.5	133.5	137.7	142.8	146.3
50°	133.7	131.2	127.8	128.2	129.2	131.5	131.2	131.9	136.0	142.3	146.1
52.5°	131.7	127.9	124.0	124.5	127.6	130.2	129.4	130.1	134.8	146.7	152.1
55°	129.4	124.5	120.0	120.6	124.0	127.9	126.9	127.8	133.3	149.6	157.0
57.5°	125.0	119.3	114.4	114.8	120.0	124.0	122.4	123.4	130.1	146.5	154.3
58°	123.2	118.3	113.5	113.8	118.7	123.2	121.4	122.2	129.0	145.7	153.1
60°	115.4	112.5	108.4	108.6	113.3	117.2	116.2	117.1	123.6	139.7	145.2
62.5°	104.7	103.0	102.0	102.0	104.9	108.6	109.6	110.6	116.7	126.3	131.2
65°	93.2	93.2	93.3	93.3	95.2	99.9	100.5	103.2	108.8	113.5	117.2
67.5°	85.3	84.9	85.3	84.3	85.1	88.0	91.1	93.6	99.3	102.7	103.8
70°	75.2	75.0	75.2	73.8	74.8	77.3	79.3	83.5	89.4	91.9	92.6
72.5°	65.3	65.3	65.7	64.7	64.7	67.4	68.8	73.4	78.9	80.3	80.6
75°	55.0	55.7	55.7	54.2	54.6	56.2	58.1	61.8	66.9	68.0	68.0
77.5°	43.7	46.0	46.0	44.5	45.1	45.3	47.8	49.6	53.6	53.9	52.3
80°	31.7	34.0	35.9	34.6	35.6	34.4	35.9	37.1	41.0	39.2	36.5
82.5°	22.6	24.4	25.8	26.0	24.9	22.6	24.5	24.7	26.5	24.1	22.6
85°	12.6	14.0	15.9	15.0	13.4	12.0	12.6	13.0	12.8	12.1	11.4
87.5°	3.3	3.5	3.9	2.9	2.7	2.3	3.1	3.1	3.5	3.7	3.5
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: P647726
 CATALOG NUMBER: GALN-SA1A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9
2.5°	667.4	676.5	696.1	710.9	729.1	751.1	777.0	803.2	831.5	840.3	852.7
5°	552.2	574.9	584.4	611.4	638.1	678.3	721.2	770.9	825.3	851.4	876.6
7.5°	471.8	484.1	493.9	513.7	545.8	594.7	648.5	710.5	787.5	825.7	862.6
10°	428.6	429.9	442.0	466.5	494.5	537.6	588.5	658.0	743.8	790.2	833.5
12.5°	400.0	394.6	407.8	433.3	465.1	504.9	551.6	617.8	712.4	760.0	812.3
15°	374.8	366.4	376.2	402.5	433.8	480.5	530.8	600.9	700.0	755.4	813.5
17.5°	375.4	352.2	355.6	377.7	408.8	456.4	517.4	600.2	718.7	782.6	851.4
20°	421.8	384.5	368.6	372.8	402.9	454.8	523.6	629.1	780.3	873.5	947.0
22.5°	467.4	444.9	419.3	410.9	427.4	481.8	563.0	697.3	914.3	1054.6	1187.5
25°	451.5	470.7	464.2	452.3	456.0	501.1	589.8	753.3	1018.4	1176.4	1301.3
27.5°	361.2	396.0	403.1	402.9	404.3	441.4	530.4	715.7	1031.3	1199.7	1319.0
30°	253.8	257.0	260.7	267.9	274.4	307.6	415.0	628.3	1025.6	1210.2	1329.7
32.5°	183.2	187.3	192.5	202.3	218.0	260.3	363.1	600.5	1056.0	1253.7	1361.0
35°	167.6	172.3	177.2	188.5	203.3	242.5	342.5	588.9	1106.1	1324.1	1417.3
37.5°	162.6	168.0	172.3	180.5	192.5	229.7	323.7	581.1	1157.4	1398.8	1492.7
40°	159.1	165.3	168.7	175.4	183.6	218.0	307.0	574.9	1207.1	1467.0	1553.2
42.5°	156.0	162.4	166.9	171.6	178.4	207.5	292.2	568.7	1250.1	1533.1	1613.7
45°	152.3	160.3	166.1	169.8	175.8	198.6	280.9	563.8	1299.2	1591.8	1674.6
47.5°	149.2	158.0	165.3	169.6	171.9	192.5	271.8	570.6	1358.1	1653.2	1731.3
50°	149.4	157.9	166.9	173.7	167.7	187.3	266.2	597.6	1434.8	1726.1	1776.0
52.5°	156.0	166.3	173.5	175.2	161.9	181.1	263.3	644.7	1525.4	1790.6	1821.2
55°	163.4	174.1	182.0	181.0	158.9	173.3	262.7	695.1	1624.8	1865.9	1879.9
57.5°	160.7	176.4	188.3	183.0	159.1	165.7	260.0	735.6	1707.8	1922.1	1938.0
58°	159.9	175.5	189.2	182.6	158.5	163.4	259.4	739.2	1719.4	1926.0	1946.2
60°	151.9	168.3	188.5	179.5	155.0	157.2	252.6	750.5	1716.3	1905.8	1951.2
62.5°	137.3	150.8	174.3	164.4	144.2	149.0	237.4	736.5	1632.6	1808.6	1878.8
65°	120.7	130.8	146.5	144.6	129.0	140.5	216.6	681.1	1465.1	1650.7	1724.7
67.5°	108.4	116.7	126.5	123.9	116.0	129.2	194.1	587.2	1277.2	1461.2	1554.3
70°	95.8	102.2	107.1	105.3	102.8	118.1	174.1	476.6	1097.1	1281.1	1371.3
72.5°	83.1	89.0	93.2	90.4	89.0	106.3	157.9	369.9	866.5	1056.9	1172.9
75°	69.5	75.4	78.3	75.2	74.4	93.7	133.7	276.3	650.1	814.8	914.9
77.5°	53.8	60.1	63.9	62.9	63.3	77.0	108.0	189.2	464.9	555.3	660.9
80°	37.7	44.7	47.2	46.1	49.0	58.7	76.3	120.1	320.6	360.4	434.8
82.5°	23.3	29.9	30.3	31.3	33.4	43.5	57.5	73.1	201.3	208.1	262.1
85°	11.7	14.3	15.3	16.9	18.7	26.5	32.7	45.3	129.6	98.1	146.5
87.5°	3.9	4.1	4.9	6.2	7.6	10.9	14.0	18.6	32.2	17.7	45.3
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: P647726
 CATALOG NUMBER: GALN-SA1A-835-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9
2.5°	877.6	895.1	907.9	919.6	908.3	907.3	896.1	878.2	870.8	870.8
5°	929.3	970.3	1003.5	1024.7	1015.6	993.8	957.8	911.8	887.1	882.8
7.5°	943.5	1024.6	1086.1	1107.9	1092.8	1044.5	975.5	898.0	862.6	854.7
10°	934.9	1040.2	1130.7	1165.3	1144.0	1071.1	976.9	882.0	838.3	829.2
12.5°	925.8	1042.3	1138.9	1189.0	1175.1	1092.5	987.4	871.4	821.0	808.0
15°	932.4	1043.0	1128.8	1180.5	1189.4	1118.3	1004.7	879.1	817.5	803.6
17.5°	974.1	1058.7	1114.4	1156.2	1187.3	1153.3	1054.0	915.5	848.8	831.6
20°	1061.0	1096.2	1122.6	1154.9	1205.0	1224.8	1154.8	1015.6	936.8	921.7
22.5°	1312.8	1306.4	1252.4	1251.8	1324.4	1403.7	1398.9	1219.3	1100.6	1088.2
25°	1407.2	1377.5	1299.4	1280.4	1312.4	1434.8	1417.1	1260.9	1151.2	1121.2
27.5°	1370.3	1296.7	1245.4	1241.1	1230.6	1346.2	1388.8	1277.8	1168.9	1139.7
30°	1368.1	1259.8	1186.5	1195.2	1205.3	1315.7	1404.5	1330.7	1214.3	1183.0
32.5°	1373.6	1265.0	1190.8	1192.4	1222.6	1320.2	1421.8	1388.4	1273.9	1242.5
35°	1396.0	1294.2	1218.4	1214.5	1261.5	1349.9	1451.3	1479.1	1355.2	1319.6
37.5°	1432.3	1352.6	1268.9	1267.9	1336.1	1403.4	1487.9	1570.6	1436.3	1397.9
40°	1485.7	1420.8	1358.7	1353.2	1437.4	1490.6	1535.5	1668.0	1530.4	1481.1
42.5°	1550.2	1502.6	1477.2	1499.3	1580.3	1588.5	1609.8	1758.1	1610.6	1553.2
45°	1609.9	1607.7	1642.9	1701.5	1748.6	1699.2	1687.2	1818.4	1672.8	1610.6
47.5°	1681.0	1742.4	1848.7	1934.5	1984.0	1827.9	1753.4	1857.8	1718.1	1660.8
50°	1753.1	1903.8	2073.5	2193.1	2203.6	1967.8	1798.9	1894.9	1759.3	1699.8
52.5°	1829.0	2032.6	2258.6	2397.5	2377.1	2089.7	1843.0	1920.1	1801.8	1749.5
55°	1894.9	2111.5	2362.1	2495.3	2465.5	2163.8	1890.6	1947.2	1862.4	1818.3
57.5°	1931.8	2118.1	2336.3	2452.7	2420.3	2149.4	1912.4	1967.4	1901.1	1866.5
58°	1937.1	2109.2	2313.5	2428.0	2395.0	2137.3	1912.2	1966.7	1903.6	1868.8
60°	1932.4	2051.7	2228.3	2330.3	2295.7	2061.0	1904.4	1951.2	1872.2	1842.8
62.5°	1888.5	1952.0	2081.4	2155.6	2145.7	1941.9	1872.2	1892.8	1776.9	1748.4
65°	1830.8	1816.0	1893.3	1945.8	1953.2	1852.7	1840.3	1766.8	1654.5	1614.2
67.5°	1760.8	1661.8	1661.7	1691.5	1703.9	1715.5	1773.7	1629.7	1478.1	1435.6
70°	1641.9	1424.3	1358.7	1394.0	1383.7	1481.1	1654.9	1437.3	1265.4	1215.8
72.5°	1423.9	1130.3	1025.3	1070.7	1044.8	1161.6	1448.0	1182.8	1046.4	985.4
75°	1154.1	845.5	737.3	778.9	762.8	881.1	1204.8	859.0	750.5	727.2
77.5°	896.1	612.6	549.7	544.0	555.9	655.7	883.8	580.0	494.8	478.9
80°	575.7	438.5	442.2	434.8	441.0	413.3	536.6	370.0	335.0	322.3
82.5°	379.0	305.6	364.3	336.3	319.4	278.0	352.0	242.3	205.6	198.6
85°	258.2	225.0	204.8	156.6	184.4	214.1	263.9	130.4	103.4	93.7
87.5°	116.7	78.3	57.5	35.5	56.1	64.7	128.2	15.3	11.7	12.1
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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