

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: P648221

Luminaire Tested: **GALN-SA1B-835-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648221  
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-835-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 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: 3886 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

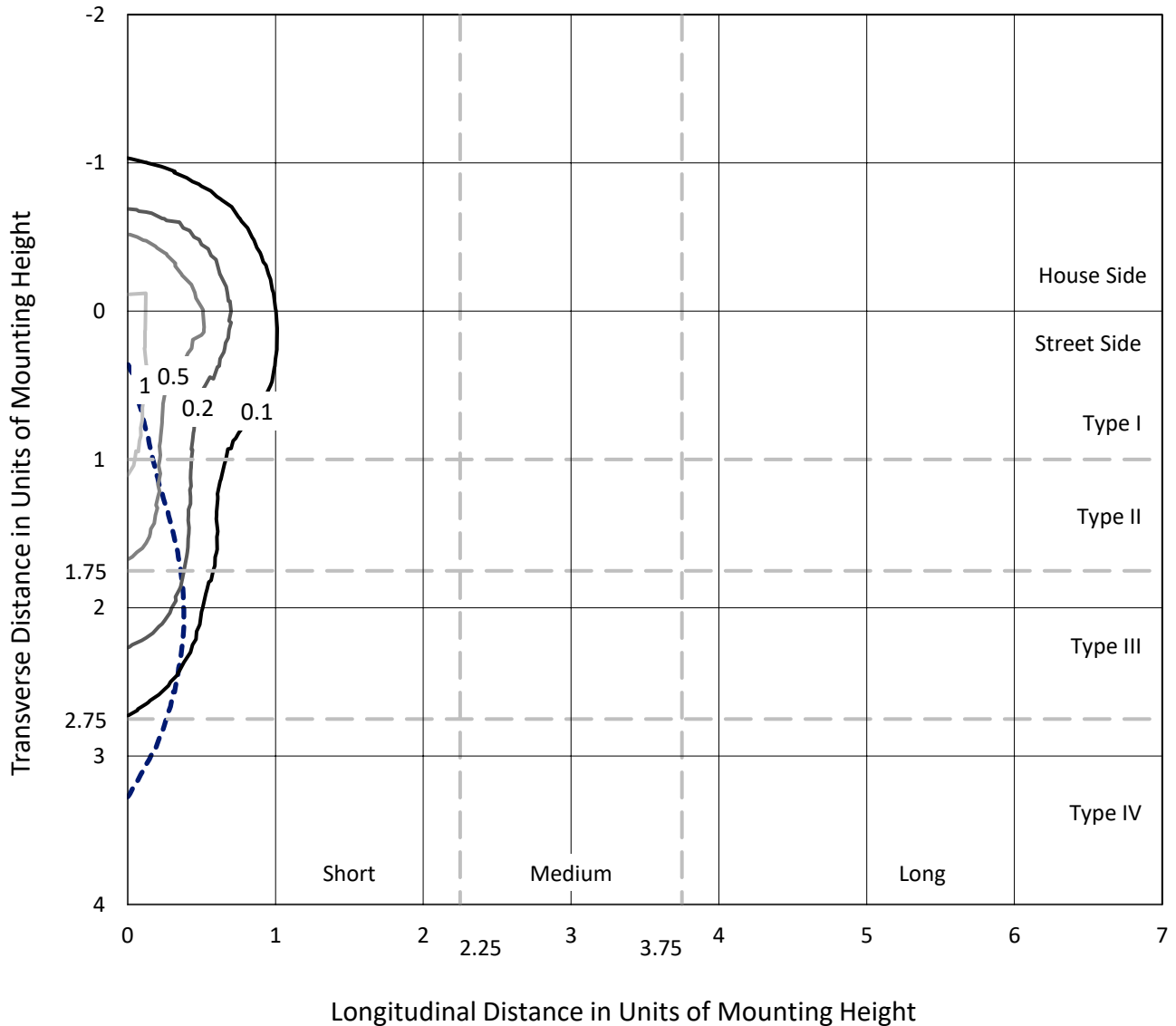
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648221  
 CATALOG NUMBER: GALN-SA1B-835-U-SLR

### Iso-Footcandle Lines of Horizontal Illumination

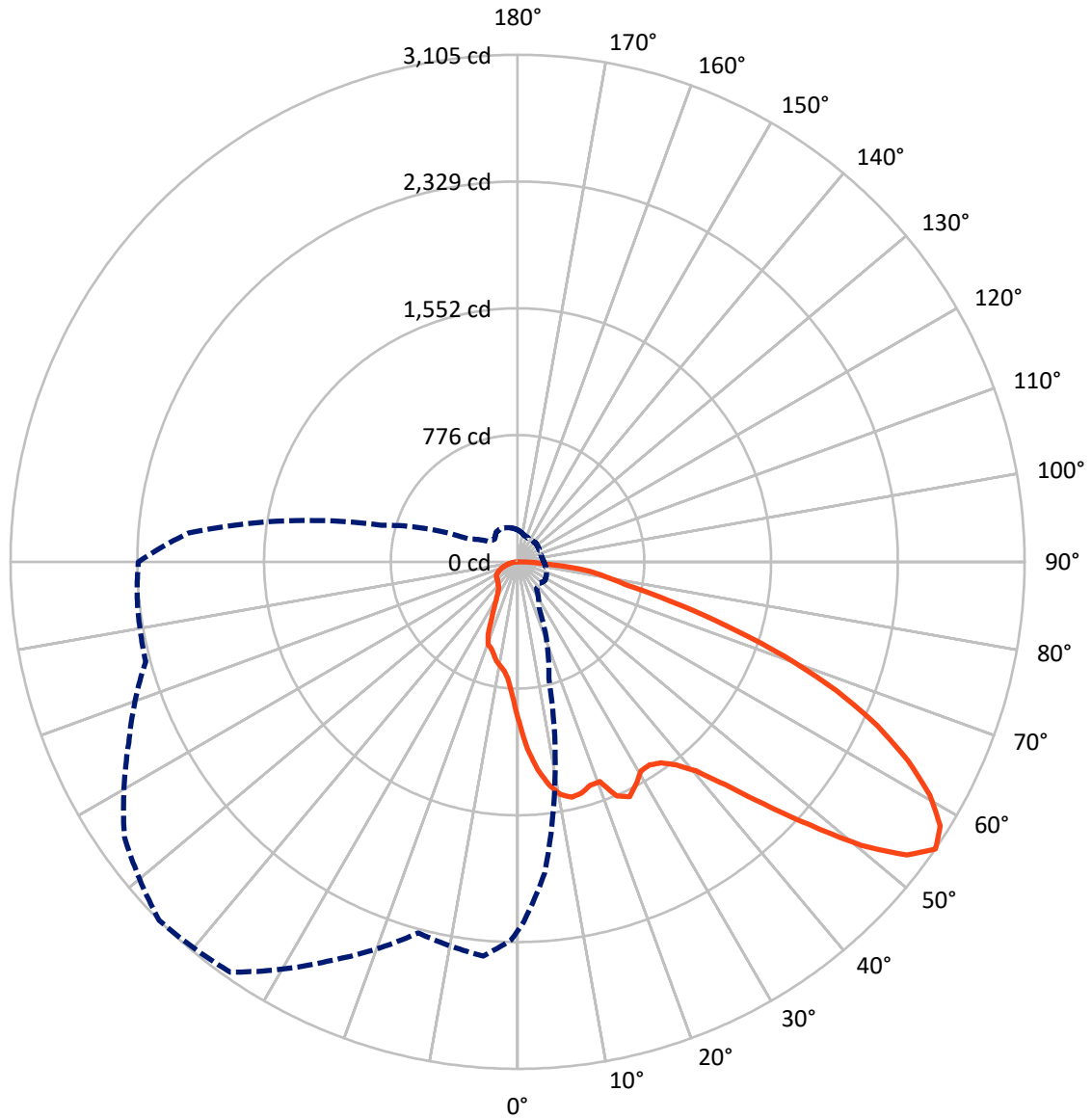
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P648221  
CATALOG NUMBER: GALN-SA1B-835-U-SLR

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA1B-835-U-SLR

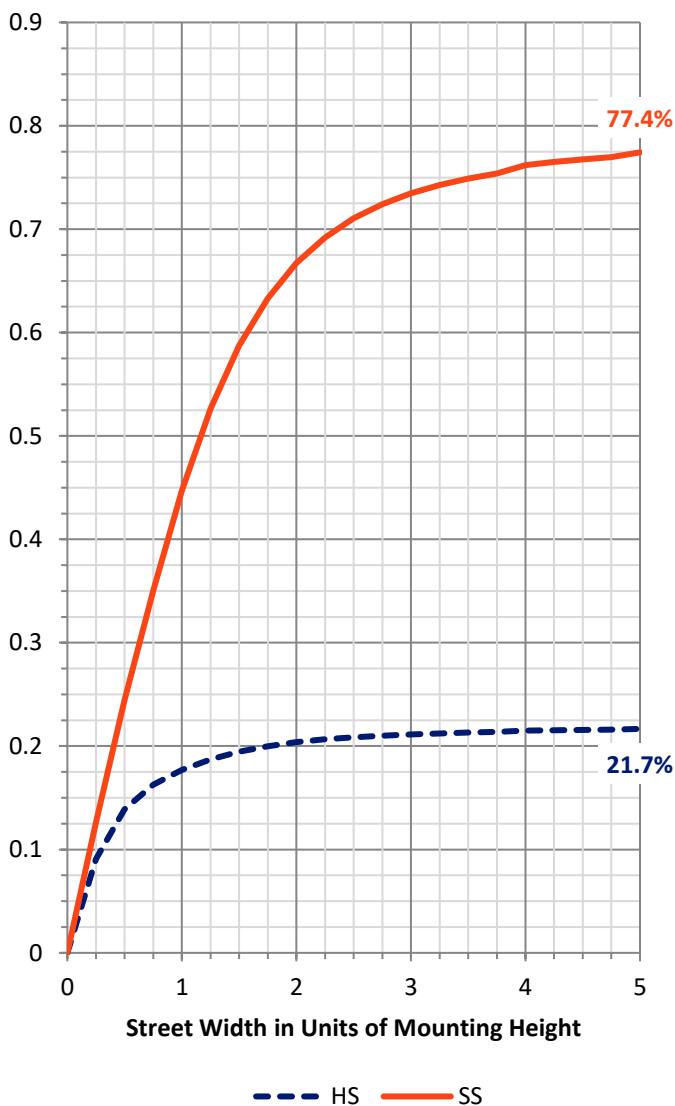
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	850.1	0.0	850.1
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	3036.0	0.0	3036.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	3886.0	0.0	3886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	2.1
10°-20°	219.3	5.6
20°-30°	378.8	9.7
30°-40°	440.3	11.3
40°-50°	614.2	15.8
50°-60°	833.5	21.4
60°-70°	792.9	20.4
70°-80°	428.4	11.0
80°-90°	96.0	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°	3886.0	100.0
0°-180°	3886.0	100.0

**Coefficient of Utilization**

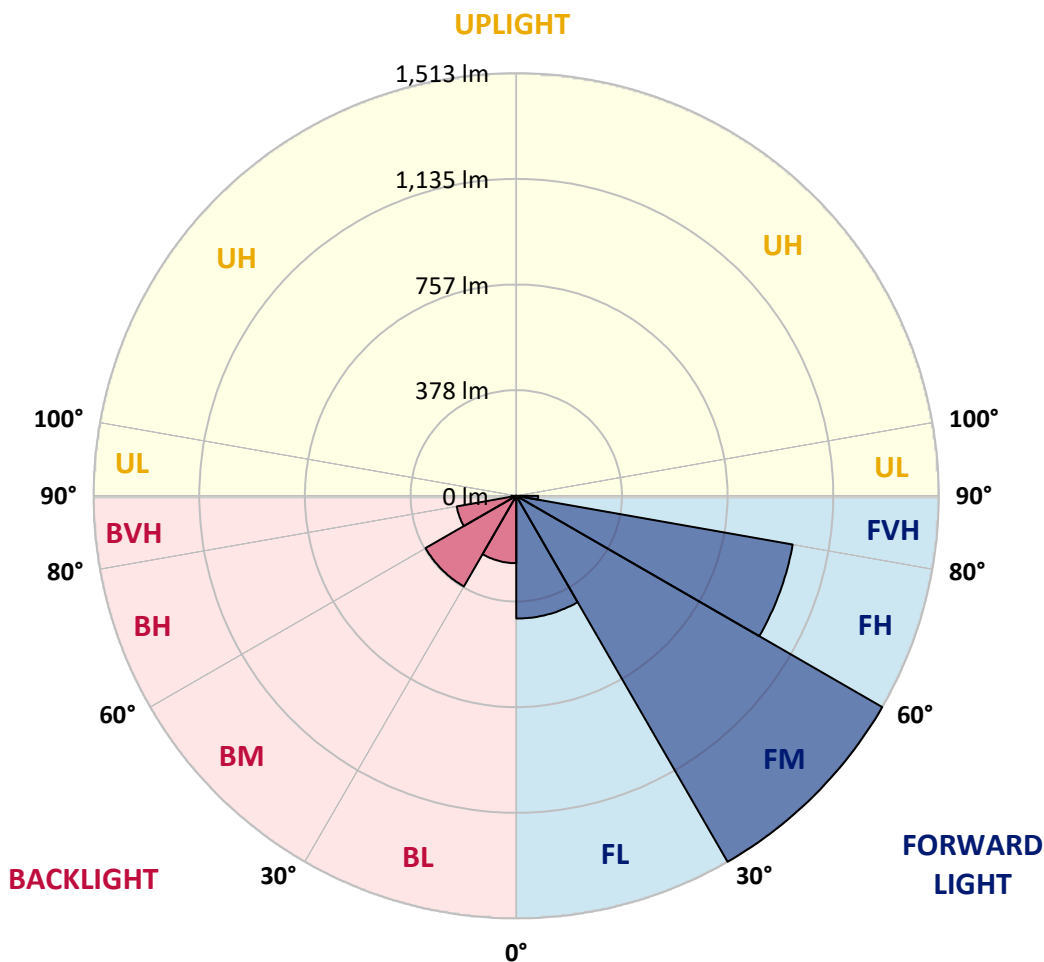


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 CATALOG NUMBER: GALN-SA1B-835-U-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.5	11.3			
FM (30°-60°)	1513.1	38.9			
FH (60°-80°)	1004.9	25.9			G1/1800
FVH (80°-90°)	78.5	2.0			G1/100
BL (0°-30°)	241.2	6.2	B1/500		
BM (30°-60°)	374.8	9.6	B1/1000		
BH (60°-80°)	216.4	5.6	B1/500		G1/500
BVH (80°-90°)	17.5	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: P648221

CATALOG NUMBER: GALN-SA1B-835-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1083.4	1079.4	1067.8	1037.6	1007.0	976.0	952.2	922.5	891.4	874.8	853.5
5°	1098.3	1093.7	1066.5	998.3	936.5	871.6	819.9	774.5	756.1	728.9	707.0
7.5°	1063.5	1061.4	1020.6	922.7	838.0	753.2	694.5	658.1	625.1	612.7	615.3
10°	1031.7	1023.5	972.4	844.5	745.8	676.8	634.8	599.2	575.8	569.6	571.0
12.5°	1005.2	994.2	934.0	791.9	705.6	650.4	596.8	559.7	538.4	544.3	564.3
15°	999.9	985.0	917.8	774.0	683.5	612.5	553.7	511.0	495.1	507.9	540.0
17.5°	1034.7	1016.0	945.5	779.9	662.5	573.8	501.7	452.7	439.4	459.9	501.7
20°	1146.8	1119.1	1031.9	814.0	660.4	554.5	471.4	422.3	427.9	466.8	510.4
22.5°	1353.9	1312.4	1183.2	863.7	671.2	549.7	465.3	439.7	470.7	503.8	532.5
25°	1394.9	1362.3	1210.4	875.0	668.8	546.3	482.7	495.6	530.2	546.6	536.6
27.5°	1418.0	1380.8	1208.6	819.1	598.1	495.6	461.5	482.7	491.5	475.6	448.4
30°	1471.8	1433.1	1239.0	760.4	492.5	367.6	322.3	313.5	319.5	322.5	312.8
32.5°	1546.0	1507.7	1296.5	721.9	425.9	304.0	259.5	247.1	244.3	241.0	237.2
35°	1641.8	1583.1	1352.9	697.3	398.4	281.3	240.2	230.8	226.9	222.3	218.1
37.5°	1739.2	1677.7	1424.1	671.4	380.2	265.4	227.4	223.1	216.3	211.5	205.6
40°	1842.8	1773.8	1489.0	648.9	362.5	255.1	218.1	217.7	209.0	203.3	196.4
42.5°	1932.5	1861.5	1547.0	635.0	348.9	244.3	212.5	214.1	205.1	196.6	187.7
45°	2003.8	1934.1	1600.5	635.0	337.9	233.6	211.5	210.5	201.5	191.0	180.7
47.5°	2066.3	1994.3	1652.8	651.2	331.0	224.6	205.9	207.7	198.4	185.1	175.1
50°	2114.8	2051.2	1723.3	676.3	324.1	217.4	198.7	208.4	195.9	182.0	170.5
52.5°	2176.6	2119.7	1808.2	710.7	318.1	209.5	192.3	208.4	195.6	182.3	169.8
55°	2262.2	2202.3	1910.5	739.2	308.7	202.0	186.7	202.6	194.8	181.0	167.6
57.5°	2322.2	2277.4	1982.8	758.1	295.1	192.5	181.5	196.9	191.5	176.1	161.5
58°	2325.0	2281.2	1993.3	762.5	291.7	190.7	180.2	194.3	190.0	174.1	159.5
60°	2292.7	2255.0	1995.3	756.3	272.8	181.7	173.6	183.8	181.7	162.0	148.5
62.5°	2175.3	2135.1	1912.6	706.3	247.7	170.8	163.3	169.8	165.1	145.1	132.6
65°	2008.4	1934.3	1742.3	627.9	229.7	158.9	149.5	149.9	145.1	130.8	119.7
67.5°	1786.2	1703.3	1475.2	529.2	216.1	145.9	133.0	131.8	125.9	116.7	107.7
70°	1512.6	1455.9	1198.8	430.4	201.0	131.5	114.6	113.8	110.2	103.4	95.4
72.5°	1225.9	1153.9	968.1	344.6	182.5	117.7	97.4	99.0	94.4	89.5	82.3
75°	904.8	857.5	748.3	276.4	157.7	102.6	81.3	81.7	79.7	74.6	69.0
77.5°	595.8	581.7	535.3	181.5	121.3	81.5	66.4	66.9	65.4	60.8	54.9
80°	401.0	391.5	362.8	116.9	81.0	59.0	51.3	51.8	51.5	46.7	38.7
82.5°	247.1	243.0	233.8	78.9	56.1	42.3	33.8	35.4	38.2	32.8	26.4
85°	116.7	116.9	141.3	43.1	33.0	27.2	18.5	19.7	19.7	19.7	14.9
87.5°	15.1	15.9	19.5	18.2	12.1	10.3	6.7	5.6	4.9	6.4	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: P648221  
 CATALOG NUMBER: GALN-SA1B-835-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	846.0	840.9	829.9	827.3	825.8	830.1	818.6	821.7	816.5	830.9	828.6
5°	708.4	708.8	717.9	723.7	725.8	723.7	716.1	702.7	692.5	688.3	689.4
7.5°	610.4	619.4	634.8	651.9	667.6	672.2	667.8	642.5	614.8	597.4	591.7
10°	577.9	589.9	607.6	621.2	635.0	646.1	648.4	628.6	595.8	554.5	538.4
12.5°	579.7	596.1	613.0	617.3	616.1	620.4	618.3	615.0	593.5	541.0	514.0
15°	562.7	582.2	594.0	591.7	587.6	583.7	578.4	569.9	562.2	525.3	495.6
17.5°	523.7	543.8	553.5	554.3	554.3	553.3	540.2	537.1	536.0	518.1	499.9
20°	531.0	542.0	537.6	530.4	532.5	539.4	531.7	530.2	536.0	544.0	540.7
22.5°	535.0	531.2	498.4	466.6	459.4	480.9	485.3	502.5	526.3	555.1	573.8
25°	509.7	478.6	419.9	384.1	363.8	383.8	410.0	441.8	477.4	514.3	536.0
27.5°	426.1	402.5	360.5	328.2	310.5	313.5	335.8	364.8	397.9	422.7	438.6
30°	321.0	310.5	288.7	277.7	266.8	264.3	273.8	284.9	299.4	302.6	306.6
32.5°	236.4	234.8	236.2	232.6	230.5	230.2	227.4	230.0	231.5	233.3	229.7
35°	213.8	211.8	208.2	207.2	205.9	206.4	205.1	203.8	204.8	206.4	207.4
37.5°	202.2	199.2	194.1	192.3	192.3	193.0	191.0	190.5	192.3	197.2	199.7
40°	193.3	189.7	183.8	181.5	183.1	185.1	182.3	181.3	185.6	190.7	194.8
42.5°	184.9	182.0	176.4	173.8	175.1	178.9	174.8	174.1	179.7	185.3	190.2
45°	177.7	174.8	169.8	168.4	169.0	172.6	169.8	169.8	175.1	181.3	185.6
47.5°	172.0	168.4	165.1	164.1	164.6	166.6	166.2	166.2	171.2	177.7	182.0
50°	166.4	163.3	158.9	159.5	160.7	163.6	163.3	164.1	169.2	177.1	181.7
52.5°	163.8	159.2	154.3	154.9	158.7	162.0	161.0	161.8	167.6	182.5	189.2
55°	161.0	154.9	149.2	149.9	154.3	159.2	157.9	158.9	165.8	186.1	195.4
57.5°	155.6	148.5	142.3	142.8	149.2	154.3	152.3	153.5	161.8	182.3	192.0
58°	153.3	147.1	141.3	141.5	147.7	153.3	151.0	152.1	160.5	181.3	190.5
60°	143.6	140.0	134.8	135.1	141.0	145.9	144.6	145.6	153.9	173.8	180.7
62.5°	130.2	128.2	126.9	126.9	130.5	135.1	136.4	137.7	145.1	157.1	163.3
65°	115.9	115.9	116.1	116.1	118.5	124.3	125.1	128.4	135.4	141.3	145.9
67.5°	106.2	105.6	106.2	104.8	105.9	109.5	113.3	116.4	123.6	127.7	129.2
70°	93.6	93.3	93.6	91.8	93.1	96.2	98.7	103.8	111.3	114.3	115.1
72.5°	81.3	81.3	81.7	80.5	80.5	83.9	85.7	91.3	98.2	100.0	100.2
75°	68.4	69.2	69.2	67.4	68.0	70.0	72.3	76.9	83.3	84.6	84.6
77.5°	54.3	57.2	57.2	55.4	56.1	56.4	59.5	61.8	66.6	67.2	65.1
80°	39.5	42.3	44.6	43.1	44.3	42.8	44.6	46.1	51.1	48.7	45.4
82.5°	28.2	30.2	32.0	32.3	31.0	28.2	30.5	30.8	33.0	30.0	28.2
85°	15.7	17.5	19.7	18.7	16.7	14.9	15.7	16.1	15.9	15.1	14.1
87.5°	4.1	4.4	4.9	3.6	3.4	2.8	3.8	3.8	4.4	4.6	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: P648221  
 CATALOG NUMBER: GALN-SA1B-835-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	830.4	841.6	866.0	884.5	907.0	934.5	966.8	999.3	1034.5	1045.5	1060.9
5°	687.1	715.3	727.1	760.7	794.0	844.0	897.3	959.1	1026.7	1059.3	1090.6
7.5°	587.1	602.2	614.5	639.2	679.1	739.9	806.8	884.0	979.8	1027.3	1073.2
10°	533.2	534.8	549.9	580.4	615.3	668.8	732.2	818.6	925.5	983.2	1037.0
12.5°	497.6	490.9	507.4	539.2	578.6	628.1	686.3	768.6	886.3	945.5	1010.6
15°	466.4	455.9	468.2	500.7	539.6	597.9	660.4	747.6	870.9	939.8	1012.2
17.5°	467.1	438.2	442.5	470.0	508.6	567.8	643.8	746.8	894.3	973.7	1059.3
20°	524.8	478.4	458.7	463.8	501.2	565.8	651.5	782.7	970.9	1086.7	1178.3
22.5°	581.5	553.5	521.7	511.2	531.7	599.4	700.4	867.6	1137.5	1312.2	1477.4
25°	561.7	585.5	577.6	562.7	567.4	623.5	733.7	937.3	1267.0	1463.7	1619.0
27.5°	449.4	492.7	501.4	501.2	503.0	549.1	659.9	890.3	1283.2	1492.6	1641.0
30°	315.9	319.7	324.3	333.3	341.5	382.7	516.3	781.7	1276.0	1505.7	1654.4
32.5°	227.9	233.0	239.4	251.7	271.2	323.8	451.7	747.1	1313.9	1559.7	1693.3
35°	208.4	214.3	220.5	234.6	253.1	301.8	426.1	732.7	1376.2	1647.4	1763.3
37.5°	202.2	209.0	214.3	224.6	239.4	285.9	402.8	722.9	1440.0	1740.3	1857.2
40°	197.9	205.6	210.0	218.1	228.4	271.2	382.0	715.3	1501.8	1825.1	1932.5
42.5°	194.1	202.0	207.7	213.5	222.0	258.2	363.5	707.6	1555.4	1907.4	2007.7
45°	189.5	199.4	206.6	211.3	218.7	247.1	349.5	701.4	1616.4	1980.4	2083.6
47.5°	185.6	196.6	205.6	211.0	213.8	239.4	338.2	709.9	1689.7	2056.9	2154.0
50°	185.9	196.4	207.7	216.1	208.7	233.0	331.2	743.5	1785.2	2147.6	2209.7
52.5°	194.1	206.9	215.9	217.9	201.5	225.3	327.6	802.2	1897.9	2227.9	2265.8
55°	203.3	216.7	226.4	225.1	197.6	215.6	326.9	864.7	2021.5	2321.4	2338.9
57.5°	200.0	219.5	234.4	227.7	197.9	206.1	323.5	915.2	2124.8	2391.4	2411.2
58°	199.0	218.5	235.4	227.1	197.2	203.3	322.8	919.6	2139.2	2396.3	2421.4
60°	188.9	209.5	234.6	223.3	192.8	195.6	314.3	933.7	2135.3	2371.2	2427.6
62.5°	170.8	187.7	216.9	204.6	179.5	185.3	295.3	916.3	2031.3	2250.2	2337.6
65°	150.3	162.8	182.3	180.0	160.5	174.8	269.4	847.3	1822.8	2053.8	2145.8
67.5°	134.8	145.1	157.4	154.1	144.3	160.7	241.5	730.7	1589.0	1818.0	1933.9
70°	119.3	127.2	133.3	131.0	127.9	146.9	216.7	593.0	1364.9	1593.9	1706.2
72.5°	103.4	110.7	115.9	112.5	110.7	132.3	196.4	460.2	1078.0	1315.0	1459.3
75°	86.4	93.8	97.4	93.6	92.6	116.7	166.4	343.8	808.8	1013.7	1138.3
77.5°	66.9	74.9	79.5	78.2	78.7	95.9	134.4	235.4	578.4	690.9	822.2
80°	46.9	55.7	58.7	57.4	61.0	73.1	94.8	149.5	398.9	448.4	541.0
82.5°	29.0	37.2	37.7	39.0	41.5	54.1	71.6	91.0	250.5	258.9	326.1
85°	14.6	17.7	18.9	21.0	23.3	33.0	40.8	56.4	161.2	122.1	182.3
87.5°	4.9	5.1	6.2	7.7	9.5	13.6	17.5	23.1	40.0	22.1	56.4
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: P648221  
 CATALOG NUMBER: GALN-SA1B-835-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1091.9	1113.7	1129.6	1144.2	1130.1	1128.8	1115.0	1092.7	1083.4	1083.4
5°	1156.3	1207.2	1248.6	1275.0	1263.7	1236.5	1191.6	1134.4	1103.7	1098.3
7.5°	1174.0	1274.6	1351.3	1378.5	1359.5	1299.5	1213.6	1117.3	1073.2	1063.5
10°	1163.1	1294.1	1406.7	1449.8	1423.4	1332.6	1215.5	1097.3	1043.0	1031.7
12.5°	1151.9	1296.7	1417.0	1479.2	1462.1	1359.3	1228.5	1084.2	1021.4	1005.2
15°	1160.1	1297.7	1404.4	1468.8	1479.8	1391.3	1250.1	1093.7	1017.0	999.9
17.5°	1211.8	1317.2	1386.5	1438.5	1477.2	1434.9	1311.4	1139.0	1056.0	1034.7
20°	1320.1	1363.9	1396.7	1437.0	1499.3	1523.9	1436.7	1263.7	1165.5	1146.8
22.5°	1633.3	1625.4	1558.2	1557.5	1647.7	1746.4	1740.5	1517.0	1369.3	1353.9
25°	1750.8	1713.8	1616.7	1593.1	1632.9	1785.2	1763.1	1568.7	1432.3	1394.9
27.5°	1704.9	1613.4	1549.5	1544.2	1531.1	1674.9	1727.9	1589.8	1454.4	1418.0
30°	1702.1	1567.5	1476.2	1487.0	1499.5	1636.9	1747.4	1655.7	1510.8	1471.8
32.5°	1709.0	1573.9	1481.6	1483.6	1521.1	1642.6	1769.0	1727.5	1584.9	1546.0
35°	1736.9	1610.2	1516.0	1511.0	1569.5	1679.5	1805.6	1840.2	1686.2	1641.8
37.5°	1782.0	1682.8	1578.8	1577.4	1662.3	1746.2	1851.2	1954.1	1786.9	1739.2
40°	1848.4	1767.7	1690.5	1683.6	1788.5	1854.6	1910.5	2075.3	1904.1	1842.8
42.5°	1928.7	1869.5	1837.9	1865.3	1966.1	1976.4	2002.8	2187.4	2003.8	1932.5
45°	2003.1	2000.3	2044.0	2116.8	2175.6	2114.0	2099.1	2262.5	2081.2	2003.8
47.5°	2091.5	2167.9	2300.1	2406.9	2468.3	2274.3	2181.4	2311.5	2137.7	2066.3
50°	2181.2	2368.7	2579.9	2728.6	2741.7	2448.4	2238.1	2357.6	2188.9	2114.8
52.5°	2275.6	2528.9	2810.1	2982.9	2957.5	2599.9	2293.0	2388.9	2241.7	2176.6
55°	2357.6	2627.0	2938.8	3104.7	3067.5	2692.2	2352.2	2422.8	2317.1	2262.2
57.5°	2403.5	2635.3	2906.7	3051.6	3011.3	2674.3	2379.4	2447.8	2365.3	2322.2
58°	2410.2	2624.2	2878.3	3020.8	2979.8	2659.1	2379.1	2446.8	2368.3	2325.0
60°	2404.3	2552.7	2772.4	2899.3	2856.2	2564.2	2369.4	2427.6	2329.4	2292.7
62.5°	2349.6	2428.6	2589.6	2681.9	2669.6	2416.0	2329.4	2355.0	2210.7	2175.3
65°	2277.9	2259.4	2355.6	2421.0	2430.1	2305.1	2289.6	2198.1	2058.4	2008.4
67.5°	2190.7	2067.7	2067.4	2104.5	2120.0	2134.3	2206.9	2027.7	1839.0	1786.2
70°	2042.8	1772.1	1690.5	1734.3	1721.5	1842.8	2058.9	1788.2	1574.4	1512.6
72.5°	1771.5	1406.2	1275.7	1332.1	1299.8	1445.2	1801.5	1471.6	1301.9	1225.9
75°	1435.9	1051.9	917.3	969.1	949.1	1096.3	1499.0	1068.8	933.7	904.8
77.5°	1115.0	762.2	684.0	676.8	691.7	815.8	1099.6	721.7	615.5	595.8
80°	716.3	545.6	550.2	541.0	548.6	514.3	667.6	460.5	416.9	401.0
82.5°	471.4	380.2	453.3	418.4	397.4	345.9	437.9	301.5	255.9	247.1
85°	321.3	279.9	254.9	194.8	229.4	266.4	328.4	162.3	128.7	116.7
87.5°	145.1	97.4	71.6	44.1	69.8	80.5	159.5	18.9	14.6	15.1
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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