

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: P647722

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
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-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT 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 III - Medium
BUG Rating: B1 - U0 - G1

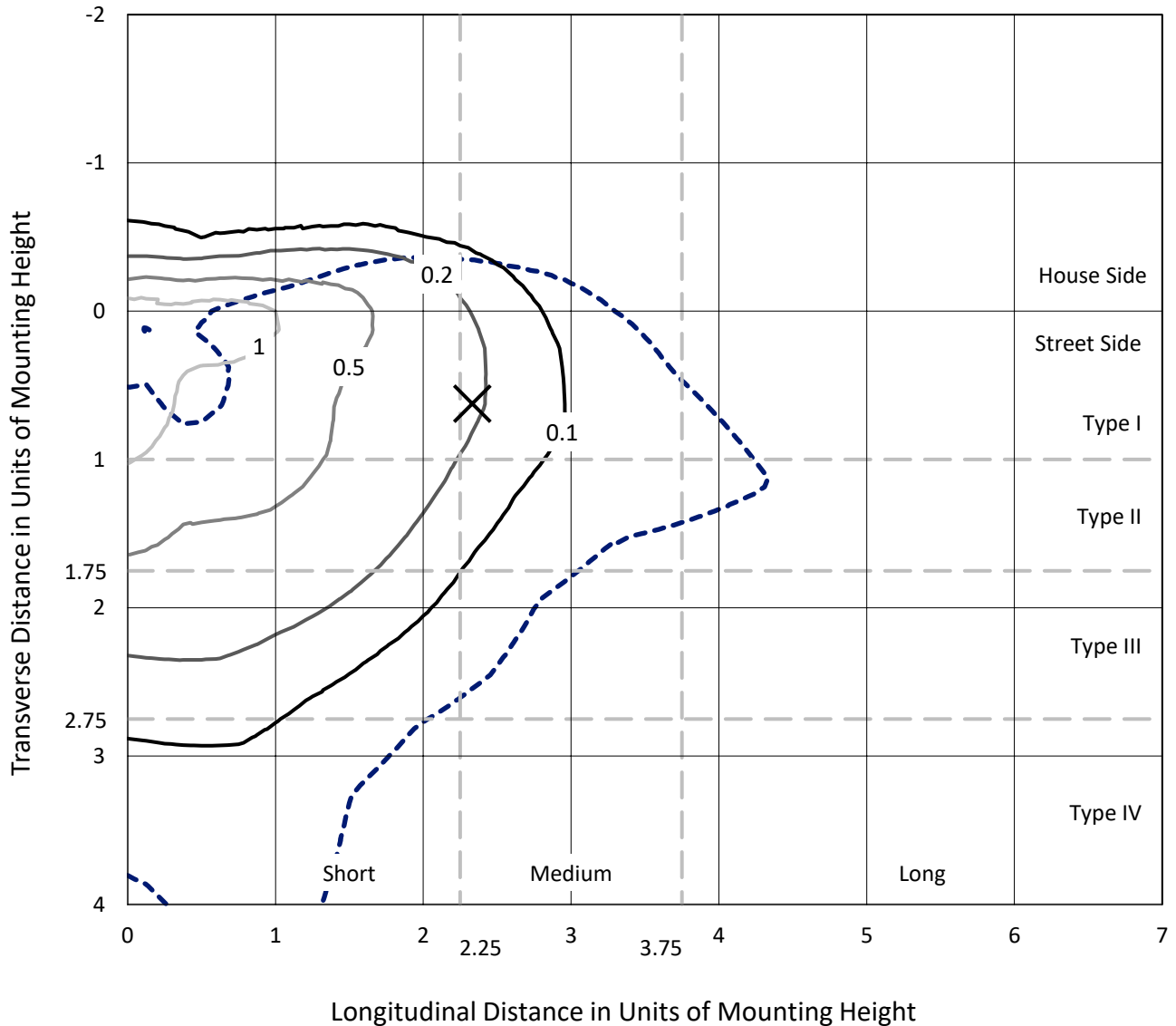
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647722
 CATALOG NUMBER: GALN-SA1A-835-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

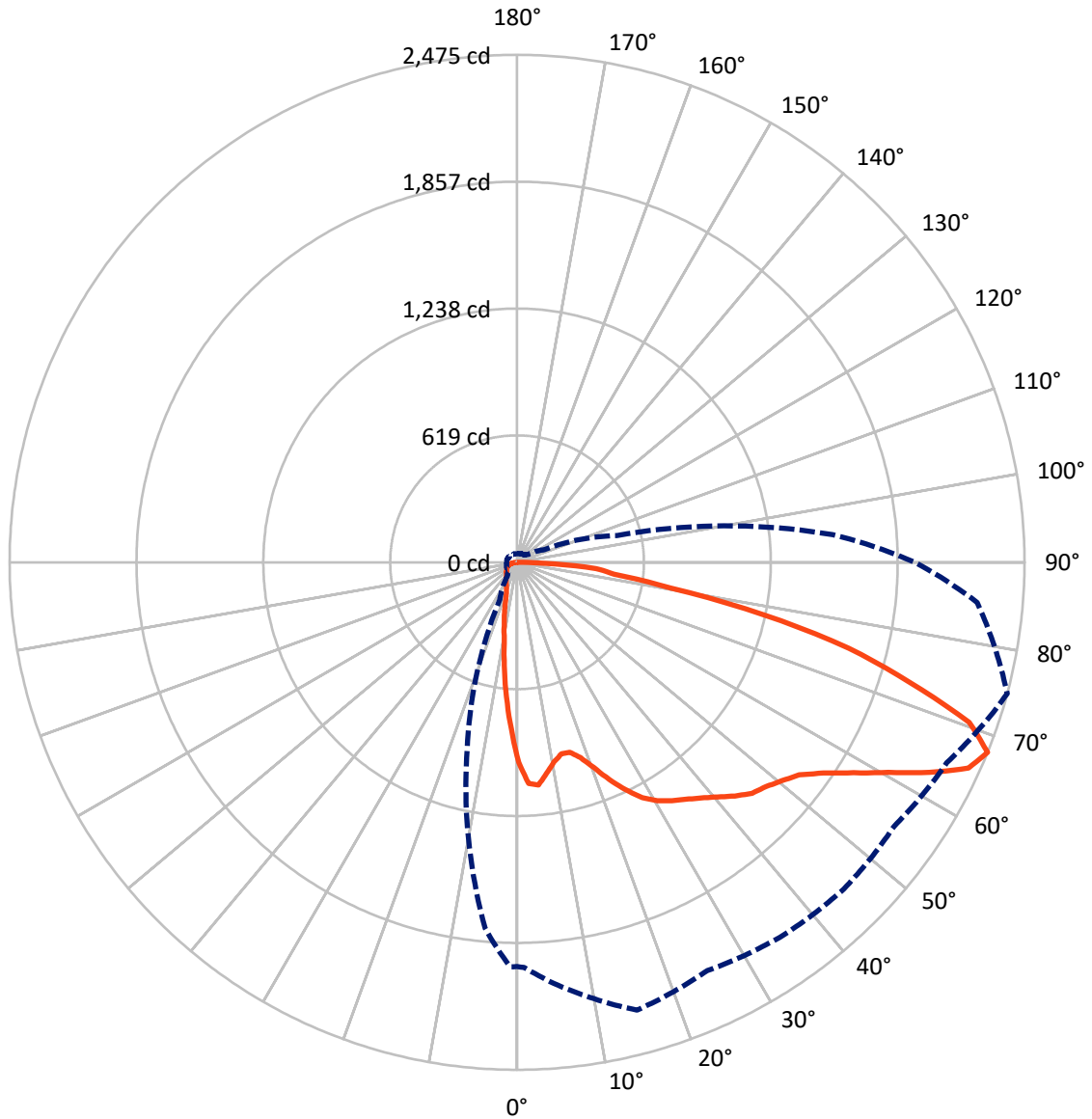
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P647722
CATALOG NUMBER: GALN-SA1A-835-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GALN-SA1A-835-U-SLL

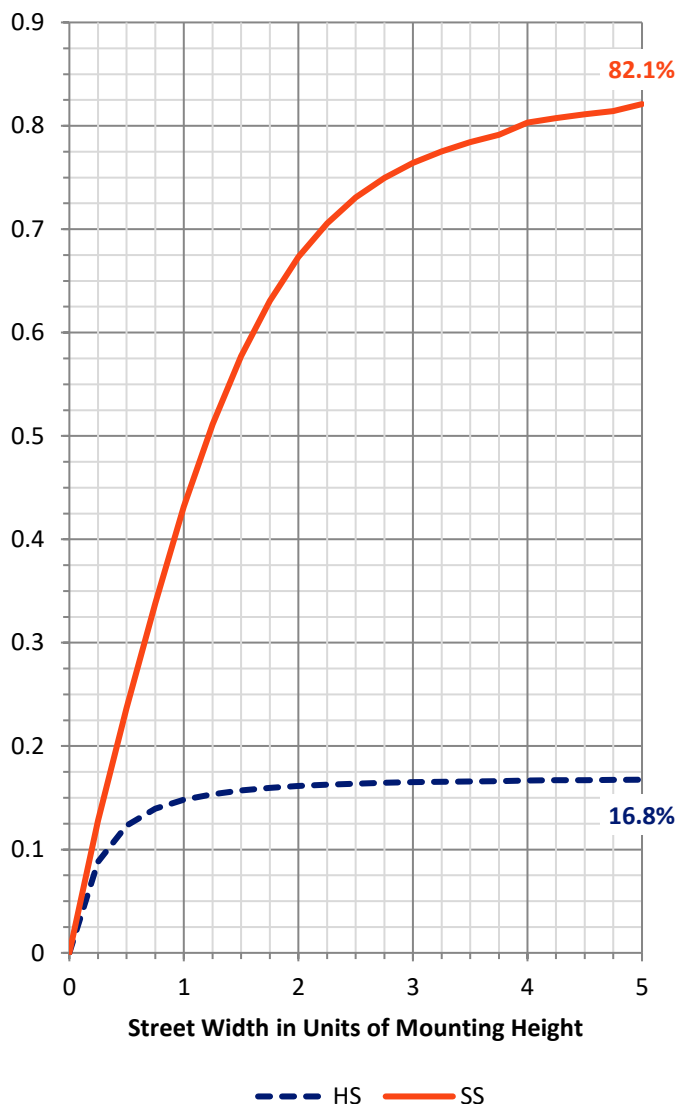
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.9	0.0	527.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2595.5	0.0	2595.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	3123.4	0.0	3123.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	2.4
10°-20°	154.4	4.9
20°-30°	222.1	7.1
30°-40°	319.9	10.2
40°-50°	449.4	14.4
50°-60°	626.8	20.1
60°-70°	745.2	23.9
70°-80°	438.9	14.1
80°-90°	92.8	3.0
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

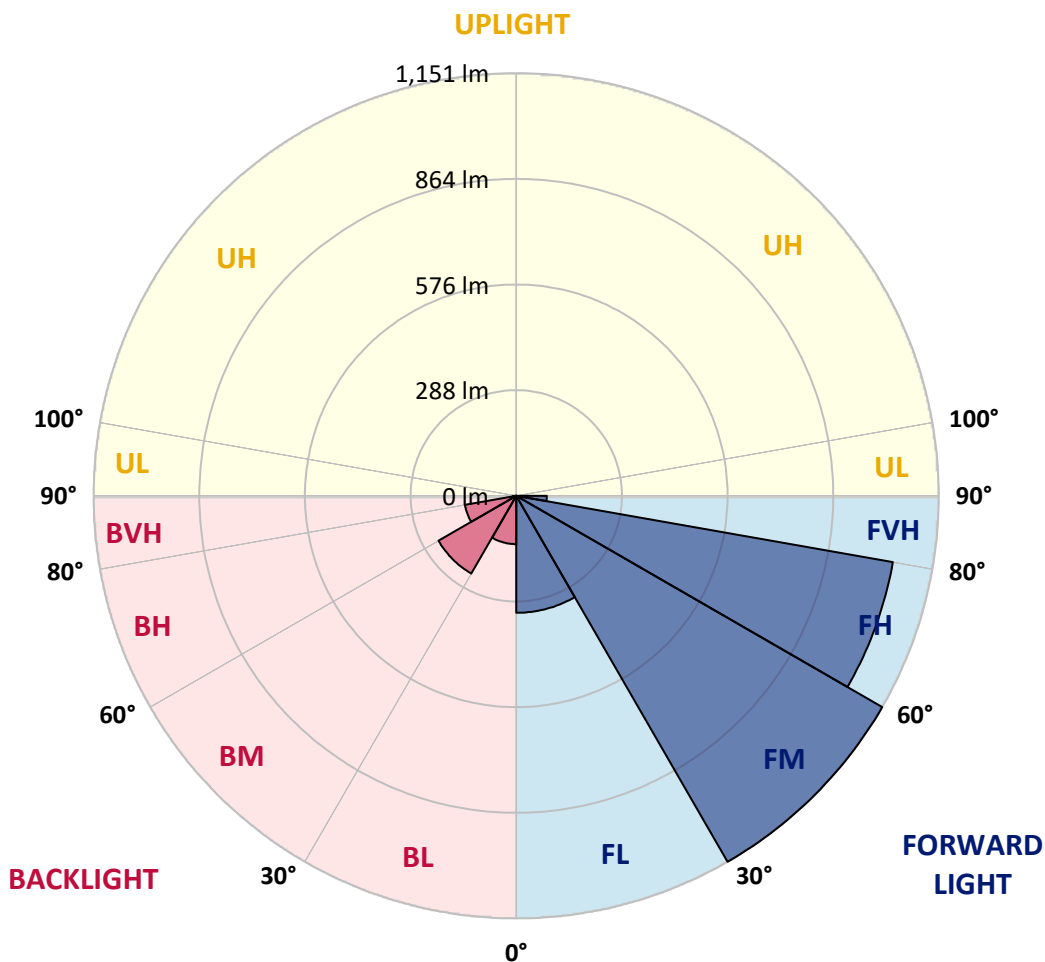


REPORT NUMBER: P647722
 CATALOG NUMBER: GALN-SA1A-835-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.8	10.2			
FM (30°-60°)	1151.5	36.9			
FH (60°-80°)	1042.0	33.4			G1/1800
FVH (80°-90°)	83.2	2.7			G1/100
BL (0°-30°)	131.7	4.2	B1/500		
BM (30°-60°)	244.6	7.8	B1/1000		
BH (60°-80°)	142.1	4.5	B1/500		G1/500
BVH (80°-90°)	9.6	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





REPORT NUMBER: P647722
 CATALOG NUMBER: GALN-SA1A-835-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	1052.1	1053.5	1062.5	1088.8	1106.8	1113.4	1118.0	1109.4	1101.0	1080.5	1049.7
5°	1048.9	1057.1	1080.5	1139.4	1185.9	1206.0	1211.9	1186.1	1143.5	1091.0	1027.9
7.5°	987.7	998.6	1034.7	1133.5	1215.4	1262.3	1256.0	1209.3	1132.5	1038.9	950.8
10°	914.9	927.2	970.6	1090.0	1195.6	1260.0	1260.0	1203.2	1101.0	989.9	888.3
12.5°	857.2	870.1	919.7	1045.3	1154.3	1215.4	1225.6	1176.7	1078.3	958.8	847.2
15°	838.2	850.7	904.1	1018.3	1110.6	1147.9	1151.2	1135.3	1067.4	961.0	845.4
17.5°	861.8	877.9	931.9	1026.3	1070.6	1072.8	1075.4	1088.0	1068.6	1001.2	881.9
20°	930.1	947.4	1003.9	1052.1	1035.5	1012.7	1014.1	1046.6	1082.8	1067.8	969.0
22.5°	1028.7	1043.7	1101.6	1097.6	1020.7	973.6	963.8	1009.1	1103.8	1150.7	1061.7
25°	1135.0	1152.7	1219.2	1165.1	1024.9	950.4	944.1	987.0	1125.6	1228.2	1168.9
27.5°	1256.8	1274.0	1326.6	1233.2	1046.9	948.6	941.2	985.0	1145.3	1299.9	1271.3
30°	1347.4	1363.2	1398.8	1290.5	1074.0	960.6	951.4	1000.8	1162.1	1349.0	1371.0
32.5°	1418.5	1434.9	1454.3	1326.2	1109.6	982.4	965.4	1029.7	1184.1	1386.4	1444.9
35°	1492.6	1512.0	1510.6	1357.8	1142.9	1007.6	991.0	1071.4	1218.7	1419.0	1538.7
37.5°	1586.5	1594.3	1584.3	1386.2	1182.7	1053.1	1043.9	1133.2	1268.1	1458.5	1648.2
40°	1681.9	1697.5	1646.0	1420.7	1231.2	1138.6	1137.6	1224.8	1326.6	1504.8	1754.4
42.5°	1763.6	1776.8	1703.7	1450.7	1289.9	1243.0	1250.6	1347.5	1403.2	1558.5	1839.7
45°	1825.1	1836.8	1757.0	1479.8	1367.2	1363.6	1408.5	1479.2	1500.0	1606.7	1889.8
47.5°	1877.3	1888.8	1794.0	1523.8	1462.7	1507.6	1585.7	1616.3	1582.7	1634.4	1945.8
50°	1921.4	1924.8	1819.5	1576.3	1581.3	1684.1	1759.8	1779.6	1664.4	1674.1	1994.5
52.5°	1967.3	1962.8	1863.3	1642.4	1709.5	1851.5	1906.6	1927.2	1742.7	1722.9	2065.4
55°	2070.0	2074.2	1961.6	1725.7	1839.1	2015.9	2088.4	2068.6	1829.5	1812.8	2155.5
57.5°	2194.2	2190.6	2100.1	1856.1	1971.0	2169.0	2223.0	2191.2	1945.2	1936.4	2246.9
60°	2242.4	2247.3	2215.8	1996.3	2101.3	2303.0	2358.2	2308.8	2084.0	2080.0	2315.8
62.5°	2194.0	2221.1	2242.3	2121.1	2212.2	2401.5	2456.3	2399.9	2228.8	2257.9	2364.0
65°	2097.4	2103.3	2175.6	2226.9	2265.7	2417.7	2446.3	2416.3	2349.8	2419.9	2361.8
67.5°	1972.1	1977.1	2061.8	2261.5	2196.8	2233.4	2253.5	2244.7	2312.4	2475.4	2253.1
70°	1852.7	1848.7	1938.2	2173.1	1912.4	1856.7	1873.3	1845.7	1995.3	2339.8	2039.8
72.5°	1620.3	1634.7	1730.9	1927.6	1514.2	1423.7	1459.9	1388.4	1534.6	2003.9	1655.6
75°	1269.2	1272.7	1433.0	1617.8	1142.2	999.4	1048.5	1018.7	1175.5	1671.6	1143.3
77.5°	878.9	871.2	1043.7	1235.6	814.6	731.6	732.5	718.2	820.8	1230.8	776.7
80°	558.2	546.6	653.3	763.3	559.8	598.8	579.3	578.6	534.4	759.3	469.7
82.5°	301.6	314.5	412.8	478.5	401.6	462.9	424.2	411.8	366.8	475.3	300.4
85°	137.4	149.4	220.1	325.5	305.1	308.4	206.1	243.1	303.4	385.9	160.4
87.5°	13.4	17.2	45.5	153.6	104.1	82.1	30.6	59.1	76.3	137.2	12.8
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: P647722
 CATALOG NUMBER: GALN-SA1A-835-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	1037.1	1026.7	991.3	962.0	931.0	907.3	876.5	855.8	841.6	820.2	817.6
5°	989.5	964.0	902.3	839.5	785.1	744.3	702.8	664.8	642.4	635.3	626.3
7.5°	909.1	866.2	786.9	714.9	652.6	591.6	544.8	511.5	489.3	476.3	460.6
10°	843.1	793.3	696.8	608.5	557.2	519.4	478.1	442.5	415.0	391.6	378.7
12.5°	798.6	742.5	633.9	562.2	522.6	482.3	434.0	394.0	353.5	326.9	315.5
15°	785.1	725.8	614.5	539.2	482.3	429.6	375.5	323.3	283.2	258.0	249.5
17.5°	818.0	746.3	614.3	508.6	435.0	372.2	302.9	253.8	212.7	193.9	187.8
20°	879.3	785.5	616.1	478.3	383.7	295.2	220.3	180.1	160.4	152.5	149.4
22.5°	964.8	845.4	621.5	448.4	327.7	226.8	165.1	144.6	137.6	136.2	135.6
25°	1070.1	919.6	639.7	421.6	280.4	173.0	138.0	128.8	124.8	123.4	123.2
27.5°	1167.1	1015.3	661.8	398.5	234.7	149.2	124.8	117.0	113.0	112.8	113.1
30°	1254.6	1095.4	680.2	372.7	200.1	132.6	116.2	108.4	104.5	104.4	105.5
32.5°	1330.3	1161.3	693.8	347.3	180.9	122.4	108.4	99.9	96.8	96.2	96.8
35°	1411.3	1227.0	687.6	327.5	169.8	114.0	102.6	94.4	90.5	88.7	88.7
37.5°	1503.6	1294.7	677.0	311.1	164.8	107.0	97.6	89.5	85.7	83.9	83.7
40°	1604.4	1362.4	662.3	296.4	159.8	102.7	94.1	85.7	81.1	79.3	78.9
42.5°	1693.2	1420.3	650.4	286.8	151.6	103.5	91.1	82.9	77.1	74.7	74.5
45°	1770.6	1478.5	648.2	281.2	144.8	102.3	90.4	80.7	73.9	71.3	70.9
47.5°	1831.0	1539.2	660.8	278.0	137.4	95.9	95.5	79.3	71.1	68.3	67.9
50°	1904.8	1625.4	689.6	271.4	130.6	90.0	100.9	79.1	68.9	65.3	64.3
52.5°	2002.9	1737.6	728.7	259.6	120.7	84.3	96.3	79.1	66.3	62.7	61.5
55°	2151.3	1880.5	766.9	243.0	107.0	76.9	86.9	76.7	62.5	59.3	58.5
57.5°	2249.6	1985.1	791.4	219.9	89.7	71.5	74.9	72.9	58.6	55.3	55.3
60°	2254.6	2013.1	779.7	190.9	78.9	66.5	65.1	73.5	55.3	51.7	51.3
62.5°	2197.0	1944.4	719.3	164.8	73.1	61.1	58.9	64.5	51.9	48.2	47.7
65°	2106.9	1769.2	614.3	152.5	69.9	56.3	53.1	52.9	48.2	44.9	44.1
67.5°	1941.2	1546.0	504.7	145.2	68.3	50.9	47.8	46.9	44.1	41.3	40.9
70°	1697.1	1294.8	404.8	142.2	67.5	45.3	42.8	41.7	39.2	37.0	36.9
72.5°	1320.3	1050.3	334.1	140.2	67.1	40.1	37.4	35.9	34.5	32.4	32.4
75°	948.4	772.7	254.9	126.4	62.1	34.5	31.6	30.6	28.7	27.0	27.4
77.5°	597.9	520.4	167.9	92.9	48.1	27.6	25.2	24.7	23.0	20.8	22.2
80°	403.8	365.9	98.0	58.5	30.2	20.2	19.4	19.3	17.5	15.0	15.2
82.5°	274.8	269.6	50.9	33.3	17.5	11.8	11.4	11.8	9.8	8.0	8.0
85°	107.3	146.6	24.0	13.0	5.6	1.8	2.6	2.8	1.6	0.8	1.0
87.5°	2.0	15.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P647722
 CATALOG NUMBER: GALN-SA1A-835-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	813.6	811.8	814.8	801.9	804.5	809.4	811.8	813.1	833.0	828.4	841.0
5°	634.7	632.9	644.6	646.1	652.2	651.0	656.8	658.2	665.4	668.0	685.6
7.5°	461.7	469.5	482.7	489.5	499.7	502.9	499.9	507.3	492.4	503.2	506.4
10°	370.9	361.5	356.0	371.5	373.6	388.4	382.3	377.6	386.3	386.7	395.2
12.5°	308.8	288.6	275.2	279.6	284.4	290.8	291.8	301.5	307.9	313.8	318.8
15°	242.2	235.1	222.9	216.9	223.7	226.4	232.6	240.5	247.3	249.2	256.0
17.5°	185.9	187.1	185.1	181.5	185.6	187.7	188.1	188.3	190.1	188.9	198.9
20°	149.6	153.9	158.8	159.7	161.1	162.0	160.2	153.4	153.6	157.9	161.1
22.5°	135.4	136.2	141.8	143.6	148.0	146.2	141.0	137.8	137.4	138.4	140.0
25°	124.2	125.4	129.4	132.2	135.6	132.4	128.6	125.6	125.2	126.2	127.8
27.5°	114.2	116.0	119.6	122.4	125.6	122.5	118.9	116.4	116.2	116.0	117.0
30°	106.2	108.1	110.8	114.0	116.2	113.5	110.2	108.8	108.5	108.1	108.5
32.5°	98.1	101.3	104.0	105.5	107.7	105.8	103.1	102.3	100.9	99.8	99.1
35°	89.1	92.6	96.5	98.6	100.8	98.7	96.9	93.6	91.1	90.9	91.3
37.5°	83.9	85.3	88.6	91.9	94.1	93.1	89.7	86.3	85.7	85.7	86.1
40°	79.3	79.9	81.4	85.7	89.7	86.8	82.5	81.5	81.5	81.4	81.5
42.5°	74.7	75.3	75.3	78.7	85.1	80.3	77.1	77.1	77.1	77.3	77.9
45°	70.5	70.7	70.5	72.9	78.9	74.9	72.7	73.3	73.7	74.1	74.5
47.5°	66.9	67.1	66.9	68.9	71.9	70.3	69.1	69.9	70.7	71.3	71.7
50°	63.7	63.5	63.9	65.1	66.5	66.9	66.1	67.3	67.7	68.5	69.5
52.5°	60.9	60.7	61.1	61.7	63.7	63.7	63.7	64.7	65.5	66.3	67.7
55°	57.7	57.9	58.5	59.3	61.9	61.5	61.7	62.5	63.3	64.5	65.3
57.5°	54.7	55.0	55.9	57.1	59.7	59.5	59.7	60.1	61.1	61.7	62.5
60°	51.3	52.1	53.1	53.9	56.5	56.3	57.3	58.1	58.6	58.6	59.1
62.5°	47.8	49.1	50.1	50.7	53.5	53.7	55.0	55.7	56.1	55.7	56.3
65°	44.5	46.3	46.7	47.4	50.3	50.5	52.1	53.5	53.1	52.7	53.7
67.5°	41.0	43.3	43.1	44.1	46.9	47.3	48.7	51.1	50.3	49.9	50.7
70°	37.3	38.8	39.1	39.6	43.5	42.8	45.1	47.3	46.7	46.9	46.9
72.5°	33.0	34.5	34.5	35.6	39.6	38.7	40.5	42.8	42.8	42.7	42.7
75°	28.0	28.8	29.7	31.5	35.6	34.5	35.6	37.8	38.3	37.8	37.8
77.5°	22.6	23.8	24.3	26.6	29.7	29.4	30.6	31.6	32.4	32.0	32.0
80°	16.1	17.2	18.8	21.5	23.3	23.8	24.4	25.2	25.6	25.6	26.1
82.5°	9.0	10.8	12.2	14.8	15.7	18.6	18.4	19.0	18.4	16.2	18.0
85°	2.0	3.8	5.4	6.8	7.8	10.8	11.4	12.8	10.6	9.8	9.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.4	3.8	3.2	3.2
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: P647722
 CATALOG NUMBER: GALN-SA1A-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	851.7	869.1	890.1	926.4	951.8	979.2	1006.9	1036.3	1044.1	1052.1
5°	690.4	724.7	743.3	791.9	843.1	907.9	961.0	1019.1	1043.3	1048.9
7.5°	523.0	546.2	595.1	644.3	707.6	775.7	857.1	947.6	975.9	987.7
10°	414.6	446.2	489.1	542.0	597.5	670.8	762.5	868.3	908.4	914.9
12.5°	352.9	388.1	434.8	490.7	543.2	598.4	691.0	800.1	843.1	857.2
15°	282.2	324.9	378.7	437.6	494.7	555.2	649.0	772.1	821.6	838.2
17.5°	221.7	256.2	314.5	378.3	446.1	522.6	640.1	785.5	846.4	861.8
20°	169.7	194.3	243.4	310.9	390.2	490.3	642.4	836.2	909.1	930.1
22.5°	146.6	159.3	189.1	253.4	342.1	462.3	651.4	905.7	993.6	1028.7
25°	132.8	139.4	156.2	198.3	296.2	435.0	672.0	999.3	1111.8	1135.0
27.5°	121.0	125.7	136.2	166.5	254.6	409.8	696.0	1103.0	1222.2	1256.8
30°	109.8	116.2	126.0	147.8	227.9	386.7	726.2	1187.1	1315.1	1347.4
32.5°	101.2	107.6	116.6	134.8	205.3	362.5	744.3	1261.0	1391.0	1418.5
35°	94.1	99.5	109.0	124.4	188.1	344.1	740.6	1319.7	1464.5	1492.6
37.5°	89.1	93.7	103.1	114.6	175.1	324.9	738.8	1397.3	1554.1	1586.5
40°	84.5	89.3	98.0	108.1	162.0	302.2	739.9	1474.2	1649.4	1681.9
42.5°	80.9	86.3	93.3	106.3	148.6	284.0	739.9	1541.0	1732.3	1763.6
45°	77.9	83.7	90.5	106.2	138.0	270.2	734.8	1598.5	1798.4	1825.1
47.5°	75.3	81.7	91.5	102.6	135.4	260.2	730.5	1644.6	1852.3	1877.3
50°	73.5	81.1	97.3	98.3	136.2	257.1	751.7	1702.7	1899.8	1921.4
52.5°	72.1	81.4	97.2	92.2	134.8	259.2	795.9	1793.4	1965.6	1967.3
55°	69.3	81.1	92.2	85.1	129.0	262.6	852.8	1925.2	2068.8	2070.0
57.5°	66.5	78.9	85.5	79.1	117.1	262.6	921.4	2050.0	2193.2	2194.2
60°	63.7	82.1	75.1	73.9	101.7	257.8	993.6	2104.9	2232.3	2242.4
62.5°	60.9	82.7	67.1	69.3	90.5	246.2	1047.5	2044.2	2179.4	2194.0
65°	57.7	66.7	61.9	64.5	84.7	226.8	1030.5	1933.0	2080.0	2097.4
67.5°	53.9	56.5	56.3	59.5	82.7	198.1	940.8	1792.4	1973.1	1972.1
70°	49.3	50.7	51.3	54.7	78.9	175.9	783.9	1609.9	1830.3	1852.7
72.5°	44.5	45.6	46.3	49.3	75.1	163.3	608.5	1358.6	1585.3	1620.3
75°	39.2	40.1	40.9	43.5	71.1	144.6	433.5	1037.1	1214.2	1269.2
77.5°	33.8	33.8	34.8	37.4	59.9	119.4	290.8	727.5	822.6	878.9
80°	27.4	27.6	27.2	30.1	44.1	81.7	165.2	485.9	547.4	558.2
82.5°	21.1	20.4	20.6	22.0	32.9	55.7	88.2	301.8	307.6	301.6
85°	13.2	13.2	12.8	14.4	21.1	29.0	48.1	184.9	144.4	137.4
87.5°	5.4	4.4	5.0	5.8	10.0	11.8	18.8	38.1	14.6	13.4
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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