

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: P458584

Luminaire Tested: **GALN-SA1C-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458584
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-SA1C-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5712 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

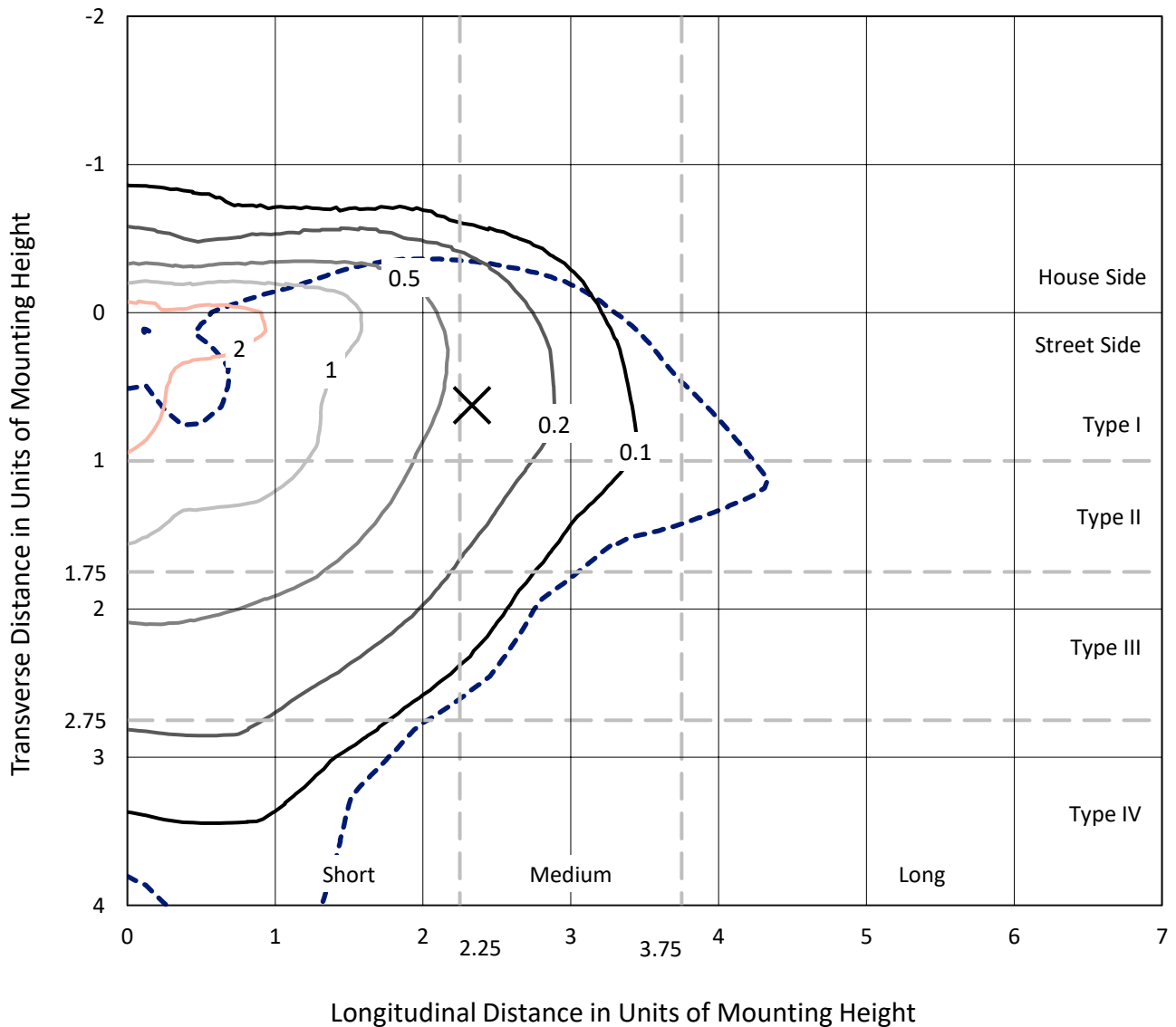
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458584
 CATALOG NUMBER: GALN-SA1C-735-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

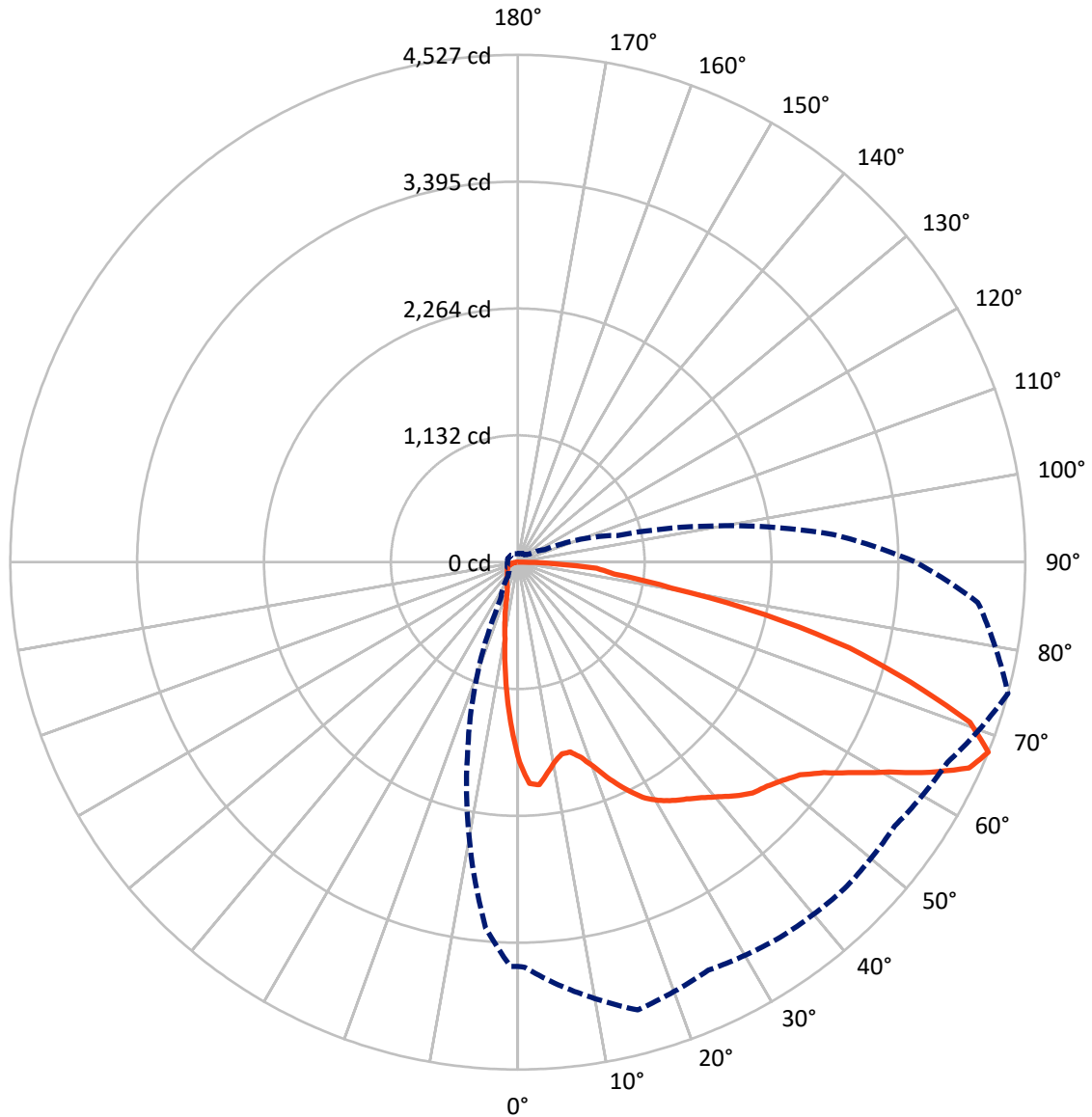
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P458584
CATALOG NUMBER: GALN-SA1C-735-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458584

CATALOG NUMBER: GALN-SA1C-735-U-SLL

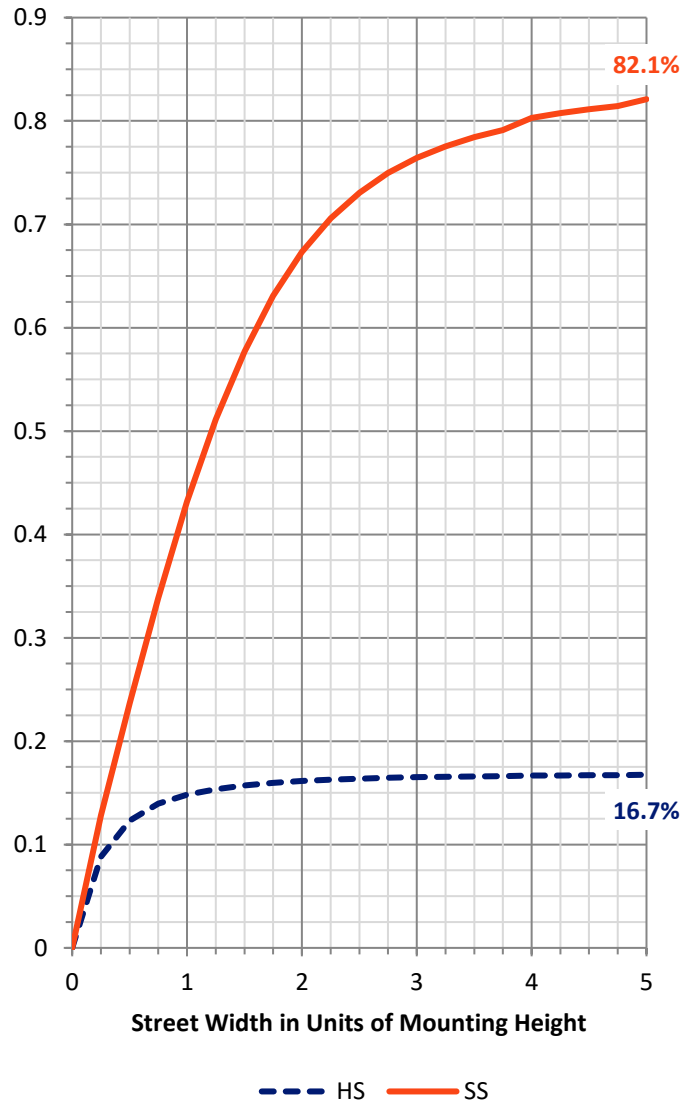
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	965.5	0.0	965.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4746.6	0.0	4746.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	5712.0	0.0	5712.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.4
10°-20°	282.3	4.9
20°-30°	406.2	7.1
30°-40°	585.1	10.2
40°-50°	821.8	14.4
50°-60°	1146.2	20.1
60°-70°	1362.7	23.9
70°-80°	802.6	14.1
80°-90°	169.7	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°	5712.0	100.0
0°-180°	5712.0	100.0



REPORT NUMBER: P458584

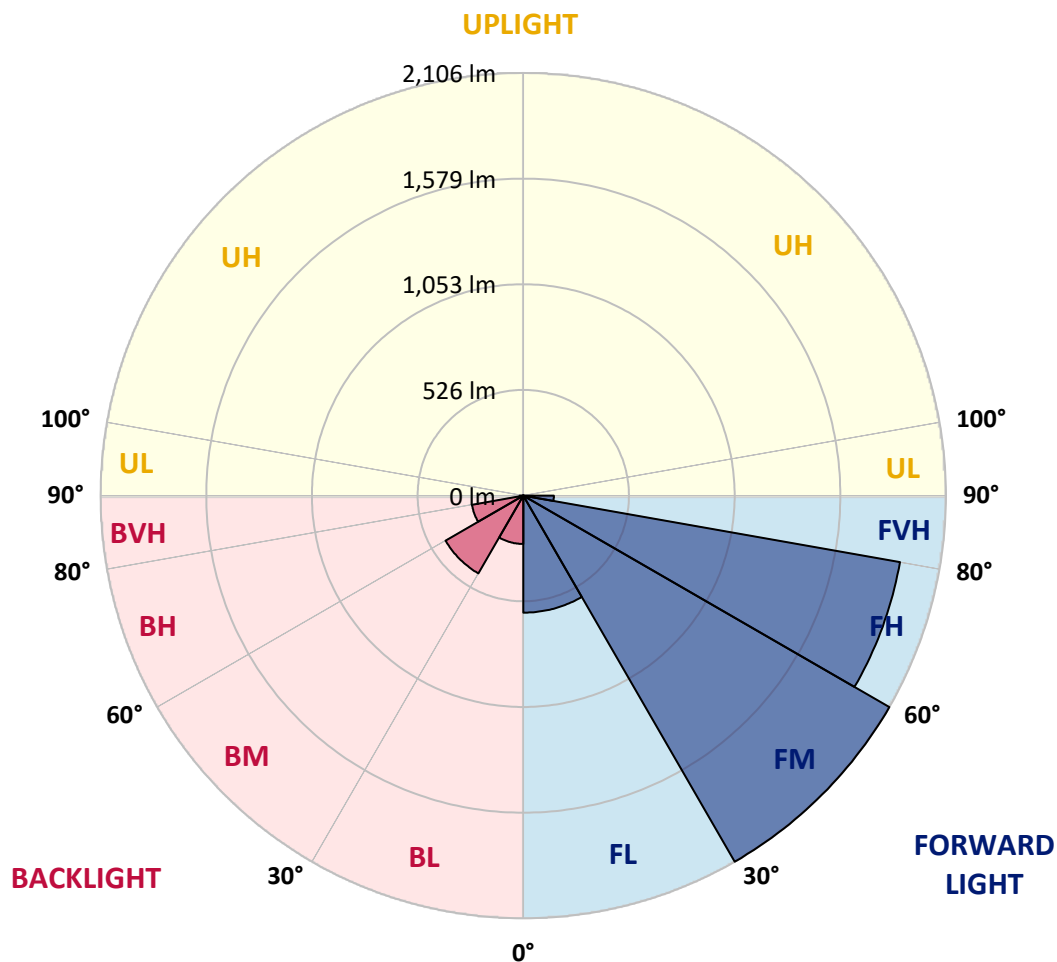
CATALOG NUMBER: GALN-SA1C-735-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.0	10.2			
FM (30°-60°)	2105.8	36.9			
FH (60°-80°)	1905.5	33.4			G2/5000
FVH (80°-90°)	152.2	2.7			G2/225
BL (0°-30°)	240.8	4.2	B1/500		
BM (30°-60°)	447.3	7.8	B1/1000		
BH (60°-80°)	259.8	4.5	B1/500		G1/500
BVH (80°-90°)	17.6	0.3			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 III Medium





REPORT NUMBER: P458584

CATALOG NUMBER: GALN-SA1C-735-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1924.1	1926.7	1943.2	1991.2	2024.1	2036.2	2044.6	2028.9	2013.5	1976.1	1919.7
5°	1918.3	1933.3	1976.1	2083.8	2168.8	2205.4	2216.4	2169.2	2091.1	1995.2	1879.8
7.5°	1806.2	1826.3	1892.3	2072.8	2222.6	2308.4	2297.0	2211.7	2071.0	1899.9	1738.8
10°	1673.2	1695.6	1775.0	1993.3	2186.4	2304.3	2304.3	2200.3	2013.5	1810.2	1624.5
12.5°	1567.7	1591.2	1682.0	1911.7	2110.9	2222.6	2241.3	2152.0	1972.1	1753.4	1549.4
15°	1532.9	1555.6	1653.4	1862.2	2031.1	2099.2	2105.4	2076.1	1952.0	1757.5	1546.1
17.5°	1576.1	1605.4	1704.3	1876.9	1957.8	1961.8	1966.6	1989.7	1954.2	1831.1	1612.8
20°	1701.0	1732.6	1835.8	1924.1	1893.7	1852.0	1854.5	1913.9	1980.2	1952.7	1772.1
22.5°	1881.3	1908.7	2014.6	2007.3	1866.6	1780.5	1762.6	1845.4	2018.6	2104.3	1941.7
25°	2075.8	2108.0	2229.6	2130.7	1874.3	1738.0	1726.7	1805.1	2058.5	2246.1	2137.7
27.5°	2298.5	2330.0	2425.9	2255.2	1914.6	1734.7	1721.2	1801.4	2094.4	2377.2	2324.8
30°	2464.0	2493.0	2558.2	2360.0	1964.0	1756.7	1739.9	1830.4	2125.2	2467.0	2507.3
32.5°	2594.1	2624.1	2659.6	2425.2	2029.2	1796.7	1765.5	1883.1	2165.5	2535.5	2642.4
35°	2729.6	2765.1	2762.6	2483.1	2090.0	1842.8	1812.4	1959.3	2228.9	2595.2	2813.8
37.5°	2901.4	2915.7	2897.4	2535.1	2162.9	1926.0	1909.1	2072.5	2319.0	2667.3	3014.2
40°	3075.7	3104.3	3010.2	2598.1	2251.6	2082.4	2080.5	2239.9	2425.9	2751.9	3208.3
42.5°	3225.2	3249.4	3115.7	2653.0	2358.9	2273.2	2287.1	2464.4	2566.2	2850.1	3364.4
45°	3337.6	3359.2	3213.1	2706.1	2500.3	2493.7	2575.7	2705.1	2743.1	2938.4	3455.9
47.5°	3433.2	3454.1	3280.9	2786.7	2675.0	2757.1	2899.9	2956.0	2894.4	2988.9	3558.5
50°	3513.8	3520.0	3327.4	2882.7	2891.9	3079.8	3218.2	3254.5	3043.9	3061.5	3647.5
52.5°	3597.7	3589.6	3407.6	3003.6	3126.3	3386.0	3486.7	3524.4	3187.1	3150.8	3777.2
55°	3785.6	3793.3	3587.4	3156.0	3363.3	3686.7	3819.3	3783.0	3345.7	3315.3	3942.0
57.5°	4012.7	4006.1	3840.5	3394.4	3604.7	3966.6	4065.5	4007.2	3557.4	3541.3	4109.0
60°	4101.0	4109.8	4052.3	3650.8	3842.7	4211.6	4312.7	4222.2	3811.2	3803.9	4235.0
62.5°	4012.3	4061.8	4100.6	3879.0	4045.7	4391.8	4492.2	4388.9	4076.1	4129.2	4323.3
65°	3835.8	3846.4	3978.6	4072.4	4143.5	4421.5	4473.9	4418.9	4297.3	4425.5	4319.3
67.5°	3606.5	3615.6	3770.6	4135.8	4017.5	4084.5	4121.1	4105.0	4228.8	4527.0	4120.4
70°	3388.2	3380.9	3544.6	3974.2	3497.3	3395.5	3425.9	3375.4	3649.0	4279.0	3730.3
72.5°	2963.3	2989.7	3165.5	3525.2	2769.2	2603.6	2669.9	2539.1	2806.5	3664.7	3027.8
75°	2321.2	2327.4	2620.8	2958.5	2089.0	1827.8	1917.5	1862.9	2149.8	3057.1	2090.8
77.5°	1607.3	1593.4	1908.7	2259.6	1489.7	1338.1	1339.5	1313.5	1501.1	2250.9	1420.5
80°	1020.8	999.6	1194.8	1395.9	1023.8	1095.2	1059.3	1058.2	977.3	1388.6	858.9
82.5°	551.6	575.1	754.9	875.1	734.4	846.5	775.8	753.1	670.7	869.2	549.4
85°	251.3	273.3	402.6	595.2	557.9	564.1	376.9	444.7	554.9	705.8	293.4
87.5°	24.5	31.5	83.1	280.9	190.5	150.2	56.0	108.1	139.6	250.9	23.4
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: P458584
 CATALOG NUMBER: GALN-SA1C-735-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1896.6	1877.6	1812.8	1759.3	1702.5	1659.3	1602.9	1565.2	1539.1	1500.0	1495.2
5°	1809.5	1763.0	1650.1	1535.1	1435.9	1361.1	1285.3	1215.7	1174.7	1161.9	1145.4
7.5°	1662.6	1584.2	1439.2	1307.3	1193.4	1082.0	996.3	935.5	894.8	871.0	842.5
10°	1541.7	1450.9	1274.3	1112.8	1019.0	949.8	874.3	809.1	759.0	716.1	692.7
12.5°	1460.4	1357.8	1159.3	1028.2	955.7	882.0	793.8	720.5	646.5	597.8	576.9
15°	1435.9	1327.4	1123.8	986.1	882.0	785.7	686.8	591.2	517.9	471.8	456.4
17.5°	1495.9	1364.8	1123.4	930.0	795.6	680.6	553.8	464.1	389.0	354.6	343.6
20°	1608.0	1436.6	1126.7	874.7	701.8	539.9	402.9	329.3	293.4	278.7	273.3
22.5°	1764.4	1546.1	1136.6	820.1	599.3	414.6	301.8	264.5	251.6	249.1	248.0
25°	1957.1	1681.6	1169.9	771.0	512.8	316.5	252.4	235.5	228.2	225.6	225.3
27.5°	2134.4	1856.7	1210.2	728.9	429.3	272.9	228.2	213.9	206.6	206.2	207.0
30°	2294.4	2003.2	1243.9	681.7	365.9	242.5	212.4	198.2	191.2	190.8	193.0
32.5°	2432.9	2123.7	1268.8	635.1	330.8	223.8	198.2	182.8	176.9	175.8	176.9
35°	2580.9	2243.9	1257.5	598.9	310.6	208.4	187.5	172.5	165.6	162.3	162.3
37.5°	2749.7	2367.7	1238.1	568.8	301.5	195.6	178.4	163.7	156.8	153.5	153.1
40°	2934.0	2491.5	1211.3	542.1	292.3	187.9	172.2	156.8	148.3	145.1	144.3
42.5°	3096.6	2597.4	1189.3	524.5	277.3	189.4	166.7	151.6	141.0	136.6	136.3
45°	3238.0	2704.0	1185.3	514.3	264.8	187.2	165.2	147.6	135.2	130.4	129.7
47.5°	3348.6	2814.9	1208.4	508.4	251.3	175.5	174.7	145.1	130.0	124.9	124.2
50°	3483.4	2972.4	1261.1	496.3	238.8	164.5	184.6	144.7	126.0	119.4	117.6
52.5°	3662.9	3177.6	1332.6	474.7	220.9	154.2	176.2	144.7	121.2	114.6	112.5
55°	3934.3	3439.1	1402.5	444.3	195.6	140.7	159.0	140.3	114.3	108.4	107.0
57.5°	4114.2	3630.3	1447.2	402.2	164.1	130.8	137.0	133.3	107.3	101.1	101.1
60°	4123.3	3681.6	1426.0	349.1	144.3	121.6	119.0	134.4	101.1	94.5	93.8
62.5°	4017.8	3555.9	1315.3	301.5	133.7	111.7	107.7	117.9	94.9	88.3	87.2
65°	3853.0	3235.4	1123.4	278.7	127.8	102.9	97.1	96.7	88.3	82.0	80.6
67.5°	3550.1	2827.4	923.1	265.6	124.9	93.0	87.5	85.7	80.6	75.5	74.7
70°	3103.6	2368.1	740.3	260.1	123.4	82.8	78.4	76.2	71.8	67.8	67.4
72.5°	2414.6	1920.8	611.0	256.4	122.7	73.3	68.5	65.6	63.0	59.3	59.3
75°	1734.4	1413.1	466.3	231.1	113.5	63.0	57.9	56.0	52.4	49.4	50.2
77.5°	1093.4	951.6	307.0	170.0	87.9	50.5	46.2	45.1	42.1	38.1	40.7
80°	738.4	669.2	179.1	107.0	55.3	37.0	35.5	35.2	31.9	27.5	27.8
82.5°	502.5	493.0	93.0	60.8	31.9	21.6	20.9	21.6	17.9	14.7	14.7
85°	196.3	268.1	44.0	23.8	10.3	3.3	4.8	5.1	2.9	1.5	1.8
87.5°	3.7	27.5	1.1	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: P458584
 CATALOG NUMBER: GALN-SA1C-735-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1487.9	1484.6	1490.1	1466.6	1471.4	1480.2	1484.6	1487.1	1523.4	1515.0	1538.1
5°	1160.8	1157.5	1178.7	1181.7	1192.6	1190.4	1201.1	1203.6	1216.8	1221.6	1253.8
7.5°	844.3	858.6	882.8	895.2	913.9	919.8	914.3	927.8	900.3	920.1	926.0
10°	678.4	661.2	650.9	679.5	683.1	710.2	699.2	690.5	706.6	707.3	722.7
12.5°	564.8	527.8	503.3	511.3	520.1	531.9	533.7	551.3	563.0	574.0	583.1
15°	442.8	430.0	407.7	396.7	409.1	413.9	425.3	439.9	452.4	455.7	468.1
17.5°	339.9	342.1	338.5	331.9	339.6	343.2	343.9	344.3	347.6	345.4	363.7
20°	273.6	281.3	290.5	291.9	294.5	296.3	293.0	280.6	280.9	288.6	294.5
22.5°	247.6	249.1	259.3	262.6	270.7	267.4	257.9	252.0	251.3	253.1	256.0
25°	227.1	229.3	236.6	241.8	248.0	242.1	235.2	229.7	228.9	230.8	233.7
27.5°	208.8	212.1	218.7	223.8	229.7	224.2	217.6	212.8	212.4	212.1	213.9
30°	194.1	197.8	202.6	208.4	212.4	207.7	201.5	198.9	198.5	197.8	198.5
32.5°	179.5	185.3	190.1	193.0	197.1	193.4	188.6	187.2	184.6	182.4	181.3
35°	163.0	169.2	176.6	180.2	184.2	180.6	177.3	171.1	166.7	166.3	167.0
37.5°	153.5	156.0	161.9	168.1	172.2	170.3	164.1	157.9	156.8	156.8	157.5
40°	145.1	146.1	148.7	156.8	164.1	158.6	150.9	149.1	149.1	148.7	149.1
42.5°	136.6	137.7	137.7	144.0	155.7	146.9	141.0	141.0	141.0	141.4	142.5
45°	128.9	129.3	128.9	133.3	144.3	137.0	133.0	134.1	134.8	135.5	136.3
47.5°	122.3	122.7	122.3	126.0	131.5	128.6	126.4	127.8	129.3	130.4	131.1
50°	116.5	116.1	116.8	119.0	121.6	122.3	120.9	123.1	123.8	125.3	127.1
52.5°	111.4	111.0	111.7	112.8	116.5	116.5	116.5	118.3	119.8	121.2	123.8
55°	105.5	105.9	107.0	108.4	113.2	112.5	112.8	114.3	115.7	117.9	119.4
57.5°	100.0	100.7	102.2	104.4	109.2	108.8	109.2	109.9	111.7	112.8	114.3
60°	93.8	95.2	97.1	98.5	103.3	102.9	104.8	106.2	107.3	107.3	108.1
62.5°	87.5	89.7	91.6	92.7	97.8	98.2	100.7	101.8	102.6	101.8	102.9
65°	81.3	84.6	85.3	86.8	91.9	92.3	95.2	97.8	97.1	96.3	98.2
67.5°	75.1	79.1	78.8	80.6	85.7	86.4	89.0	93.4	91.9	91.2	92.7
70°	68.1	71.1	71.4	72.5	79.5	78.4	82.4	86.4	85.3	85.7	85.7
72.5°	60.4	63.0	63.0	65.2	72.5	70.7	74.0	78.4	78.4	78.0	78.0
75°	51.3	52.7	54.2	57.5	65.2	63.0	65.2	69.2	70.0	69.2	69.2
77.5°	41.4	43.6	44.3	48.7	54.2	53.8	56.0	57.9	59.3	58.6	58.6
80°	29.3	31.5	34.4	39.2	42.5	43.6	44.7	46.2	46.9	46.9	47.6
82.5°	16.5	19.8	22.3	27.1	28.6	34.1	33.7	34.8	33.7	29.7	33.0
85°	3.7	7.0	9.9	12.5	14.3	19.8	20.9	23.4	19.4	17.9	17.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	5.9	8.1	7.0	5.9	5.9
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: P458584
 CATALOG NUMBER: GALN-SA1C-735-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1557.5	1589.3	1627.8	1694.1	1740.6	1790.8	1841.3	1895.2	1909.5	1924.1
5°	1262.6	1325.2	1359.3	1448.3	1541.7	1660.4	1757.5	1863.7	1908.0	1918.3
7.5°	956.4	998.9	1088.2	1178.4	1294.1	1418.6	1567.4	1732.9	1784.6	1806.2
10°	758.2	816.1	894.5	991.2	1092.6	1226.7	1394.5	1587.9	1661.1	1673.2
12.5°	645.4	709.9	795.2	897.4	993.4	1094.5	1263.7	1463.3	1541.7	1567.7
15°	516.1	594.1	692.7	800.3	904.7	1015.4	1186.8	1412.0	1502.5	1532.9
17.5°	405.5	468.5	575.1	691.9	815.7	955.7	1170.7	1436.6	1547.9	1576.1
20°	310.2	355.3	445.0	568.5	713.5	896.7	1174.7	1529.3	1662.6	1701.0
22.5°	268.1	291.2	345.8	463.4	625.6	845.4	1191.2	1656.4	1817.2	1881.3
25°	242.9	254.9	285.7	362.6	541.7	795.6	1228.9	1827.4	2033.3	2075.8
27.5°	221.2	230.0	249.1	304.4	465.6	749.4	1272.9	2017.2	2235.1	2298.5
30°	200.7	212.4	230.4	270.3	416.8	707.3	1328.2	2171.0	2405.1	2464.0
32.5°	185.0	196.7	213.2	246.5	375.4	663.0	1361.1	2306.2	2543.9	2594.1
35°	172.2	182.0	199.3	227.5	343.9	629.3	1354.5	2413.5	2678.3	2729.6
37.5°	163.0	171.4	188.6	209.5	320.1	594.1	1351.2	2555.2	2842.0	2901.4
40°	154.6	163.4	179.1	197.8	296.3	552.7	1353.1	2695.9	3016.4	3075.7
42.5°	148.0	157.9	170.7	194.5	271.8	519.4	1353.1	2818.2	3168.0	3225.2
45°	142.5	153.1	165.6	194.1	252.4	494.1	1343.9	2923.4	3288.9	3337.6
47.5°	137.7	149.4	167.4	187.5	247.6	475.8	1335.9	3007.6	3387.4	3433.2
50°	134.4	148.3	178.0	179.8	249.1	470.3	1374.7	3113.8	3474.3	3513.8
52.5°	131.9	148.7	177.7	168.5	246.5	474.0	1455.6	3279.8	3594.8	3597.7
55°	126.7	148.3	168.5	155.7	235.9	480.2	1559.7	3520.8	3783.4	3785.6
57.5°	121.6	144.3	156.4	144.7	214.3	480.2	1684.9	3749.0	4010.9	4012.7
60°	116.5	150.2	137.4	135.2	186.1	471.4	1817.2	3849.3	4082.3	4101.0
62.5°	111.4	151.3	122.7	126.7	165.6	450.2	1915.7	3738.4	3985.6	4012.3
65°	105.5	122.0	113.2	117.9	154.9	414.6	1884.6	3535.1	3803.9	3835.8
67.5°	98.5	103.3	102.9	108.8	151.3	362.3	1720.5	3277.9	3608.3	3606.5
70°	90.1	92.7	93.8	100.0	144.3	321.6	1433.7	2944.2	3347.2	3388.2
72.5°	81.3	83.5	84.6	90.1	137.4	298.5	1112.8	2484.5	2899.2	2963.3
75°	71.8	73.3	74.7	79.5	130.0	264.5	792.7	1896.6	2220.4	2321.2
77.5°	61.9	61.9	63.7	68.5	109.5	218.3	531.9	1330.4	1504.4	1607.3
80°	50.2	50.5	49.8	54.9	80.6	149.4	302.2	888.6	1001.1	1020.8
82.5°	38.5	37.4	37.7	40.3	60.1	101.8	161.2	552.0	562.6	551.6
85°	24.2	24.2	23.4	26.4	38.5	53.1	87.9	338.1	264.1	251.3
87.5°	9.9	8.1	9.2	10.6	18.3	21.6	34.4	69.6	26.7	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)