

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: P650692

Luminaire Tested: **GALN-SA1C-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650692
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-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 5157 lumens
Efficiency: N/A
Efficacy: 90.5 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

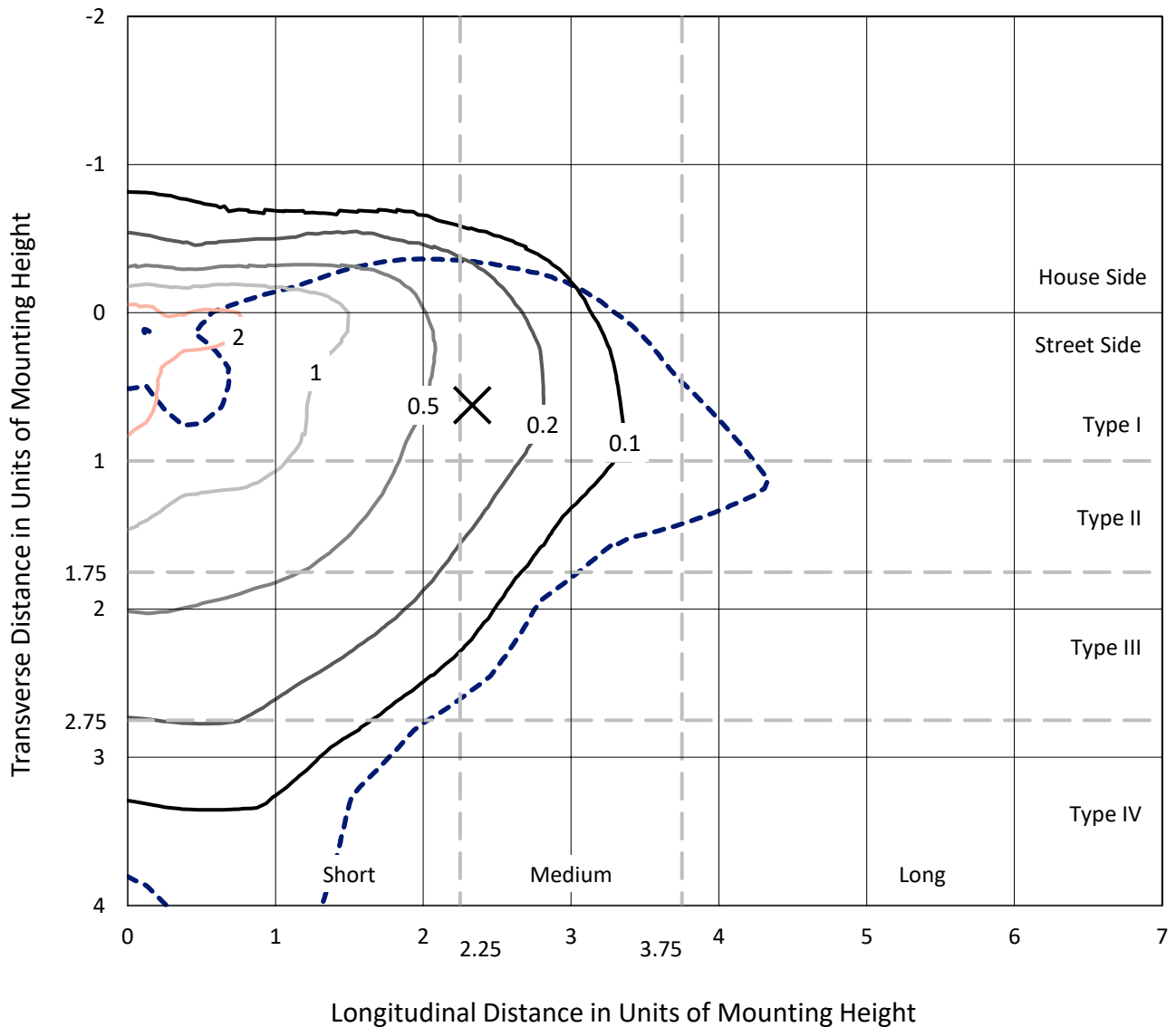
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650692
 CATALOG NUMBER: GALN-SA1C-840-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

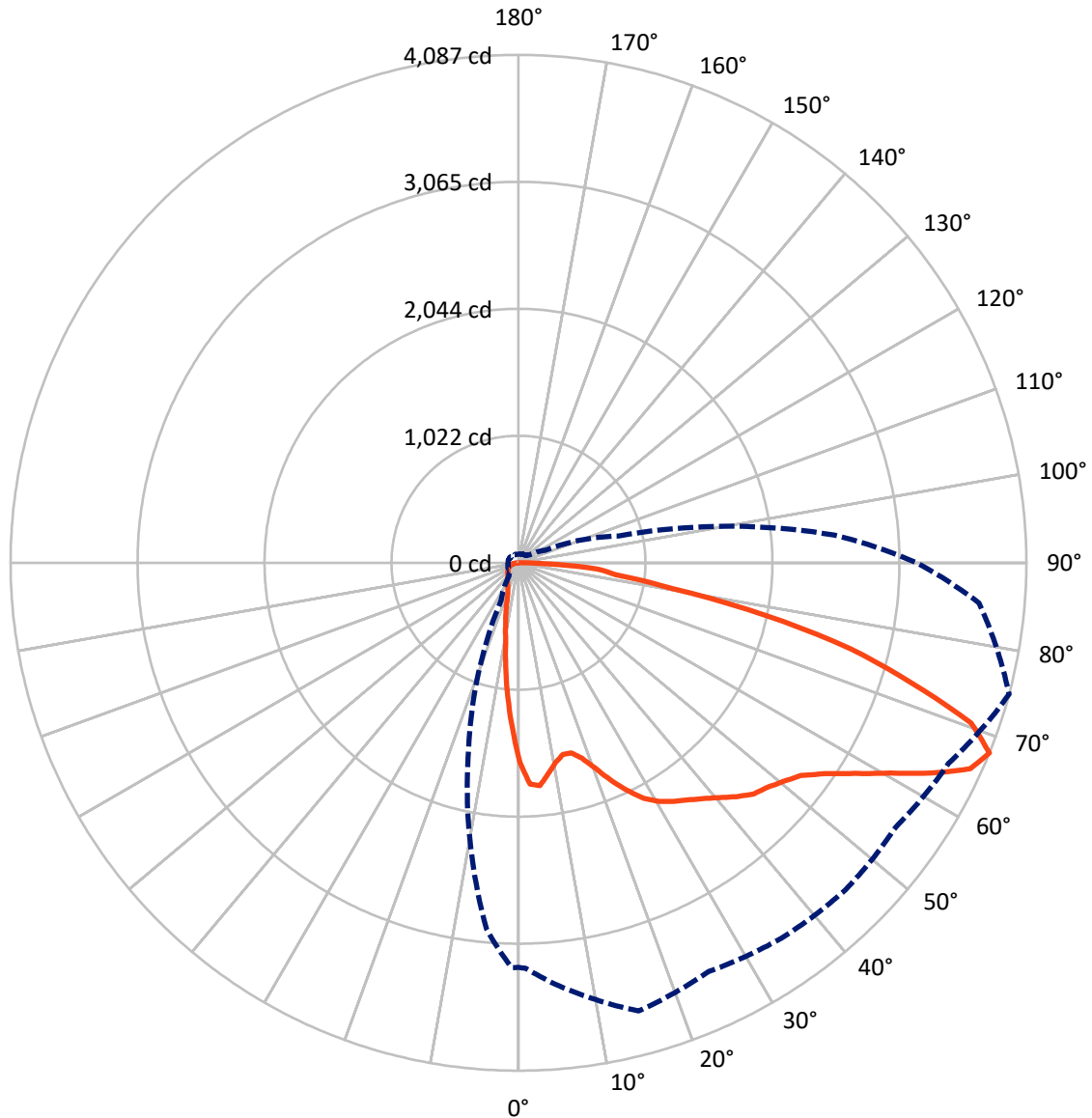
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P650692
CATALOG NUMBER: GALN-SA1C-840-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650692
 CATALOG NUMBER: GALN-SA1C-840-U-SLL

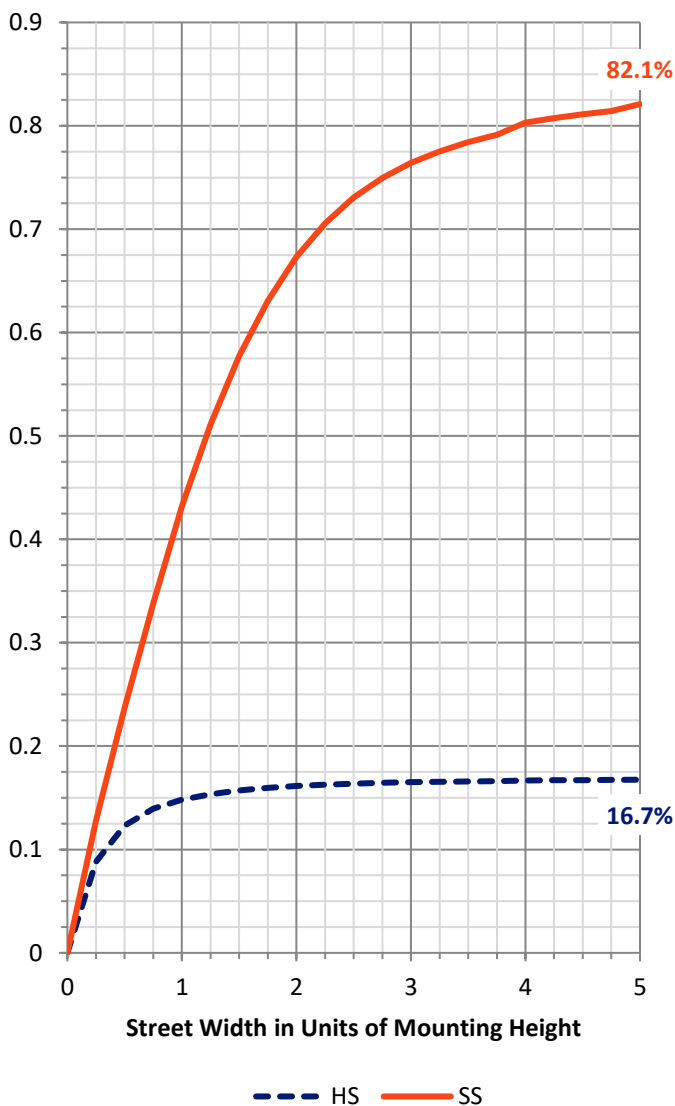
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	871.6	0.0	871.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4285.4	0.0	4285.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	5157.0	0.0	5157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	2.4
10°-20°	254.9	4.9
20°-30°	366.7	7.1
30°-40°	528.2	10.2
40°-50°	742.0	14.4
50°-60°	1034.8	20.1
60°-70°	1230.3	23.9
70°-80°	724.6	14.1
80°-90°	153.2	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°	5157.0	100.0
0°-180°	5157.0	100.0

Coefficient of Utilization

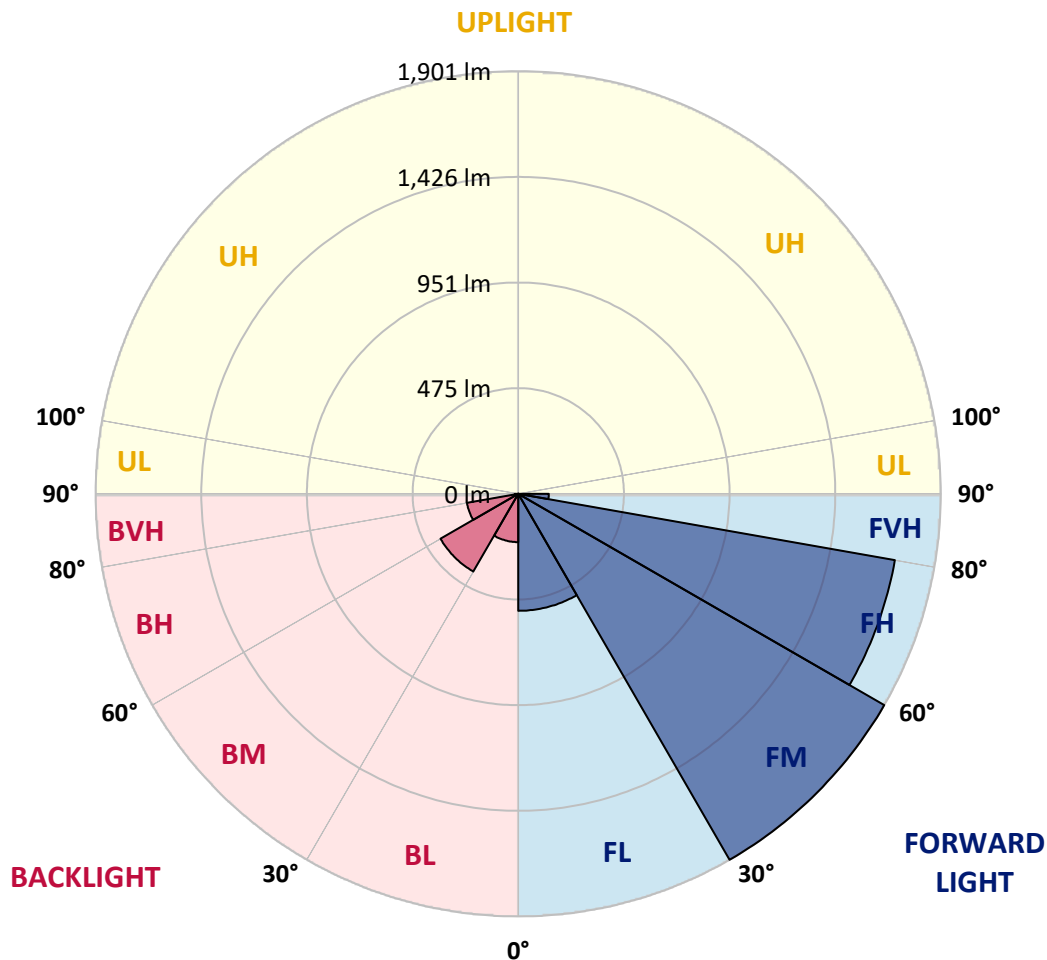


REPORT NUMBER: P650692
 CATALOG NUMBER: GALN-SA1C-840-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.4	10.2			
FM (30°-60°)	1901.2	36.9			
FH (60°-80°)	1720.4	33.4			G1/1800
FVH (80°-90°)	137.4	2.7			G2/225
BL (0°-30°)	217.4	4.2	B1/500		
BM (30°-60°)	403.8	7.8	B1/1000		
BH (60°-80°)	234.5	4.5	B1/500		G1/500
BVH (80°-90°)	15.8	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: P650692

CATALOG NUMBER: GALN-SA1C-840-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2
2.5°	1737.2	1739.5	1754.3	1797.7	1827.4	1838.3	1846.0	1831.8	1817.8	1784.1	1733.2
5°	1731.9	1745.4	1784.1	1881.3	1958.1	1991.2	2001.1	1958.4	1888.0	1801.3	1697.1
7.5°	1630.7	1648.9	1708.4	1871.4	2006.7	2084.1	2073.8	1996.8	1869.8	1715.3	1569.8
10°	1510.6	1530.8	1602.6	1799.7	1973.9	2080.5	2080.5	1986.5	1817.8	1634.3	1466.6
12.5°	1415.4	1436.6	1518.6	1725.9	1905.8	2006.7	2023.5	1942.9	1780.5	1583.1	1398.8
15°	1383.9	1404.5	1492.8	1681.2	1833.7	1895.3	1900.8	1874.4	1762.3	1586.7	1395.9
17.5°	1423.0	1449.5	1538.8	1694.5	1767.6	1771.2	1775.5	1796.4	1764.2	1653.2	1456.1
20°	1535.8	1564.2	1657.4	1737.2	1709.8	1672.0	1674.3	1727.9	1787.8	1763.0	1599.9
22.5°	1698.5	1723.3	1818.8	1812.3	1685.3	1607.6	1591.3	1666.1	1822.5	1899.9	1753.1
25°	1874.1	1903.2	2012.9	1923.7	1692.2	1569.1	1559.0	1629.7	1858.5	2027.8	1929.9
27.5°	2075.2	2103.6	2190.2	2036.1	1728.6	1566.2	1554.0	1626.4	1890.9	2146.2	2099.0
30°	2224.6	2250.8	2309.6	2130.7	1773.2	1586.0	1570.8	1652.5	1918.7	2227.3	2263.6
32.5°	2342.0	2369.1	2401.2	2189.5	1832.1	1622.1	1593.9	1700.2	1955.1	2289.1	2385.7
35°	2464.4	2496.4	2494.2	2241.9	1887.0	1663.8	1636.3	1768.9	2012.3	2343.0	2540.4
37.5°	2619.5	2632.4	2615.8	2288.8	1952.8	1738.9	1723.6	1871.1	2093.7	2408.1	2721.3
40°	2776.9	2802.7	2717.7	2345.6	2032.8	1880.1	1878.4	2022.3	2190.2	2484.6	2896.6
42.5°	2911.8	2933.7	2813.0	2395.3	2129.7	2052.3	2064.9	2224.9	2316.9	2573.2	3037.5
45°	3013.3	3032.8	2900.9	2443.2	2257.3	2251.4	2325.4	2442.3	2476.6	2652.9	3120.2
47.5°	3099.7	3118.5	2962.1	2515.9	2415.1	2489.2	2618.1	2668.7	2613.2	2698.5	3212.8
50°	3172.4	3178.1	3004.1	2602.6	2610.9	2780.5	2905.6	2938.3	2748.1	2764.0	3293.1
52.5°	3248.1	3240.9	3076.5	2711.7	2822.6	3057.0	3147.9	3182.0	2877.4	2844.7	3410.2
55°	3417.8	3424.7	3238.9	2849.3	3036.5	3328.5	3448.2	3415.5	3020.6	2993.2	3559.0
57.5°	3622.9	3616.9	3467.4	3064.6	3254.4	3581.1	3670.5	3617.9	3211.8	3197.2	3709.8
60°	3702.5	3710.5	3658.5	3296.1	3469.4	3802.4	3893.7	3812.0	3441.0	3434.3	3823.5
62.5°	3622.5	3667.1	3702.2	3502.1	3652.5	3965.1	4055.7	3962.5	3680.0	3728.0	3903.2
65°	3463.1	3472.7	3592.1	3676.8	3740.9	3991.9	4039.2	3989.5	3879.8	3995.5	3899.6
67.5°	3256.1	3264.3	3404.2	3734.0	3627.1	3687.6	3720.8	3706.1	3818.0	4087.1	3720.1
70°	3059.0	3052.3	3200.2	3588.1	3157.5	3065.6	3093.0	3047.4	3294.4	3863.2	3367.9
72.5°	2675.4	2699.2	2857.9	3182.7	2500.1	2350.6	2410.5	2292.4	2533.8	3308.7	2733.6
75°	2095.7	2101.2	2366.2	2671.1	1886.0	1650.2	1731.2	1681.9	1940.9	2760.0	1887.6
77.5°	1451.1	1438.5	1723.3	2040.1	1344.9	1208.0	1209.4	1185.9	1355.2	2032.2	1282.4
80°	921.7	902.5	1078.8	1260.3	924.3	988.8	956.4	955.4	882.3	1253.7	775.5
82.5°	498.0	519.2	681.5	790.0	663.0	764.2	700.4	679.9	605.5	784.7	496.0
85°	226.9	246.7	363.5	537.4	503.7	509.3	340.3	401.5	501.0	637.2	264.9
87.5°	22.1	28.4	75.1	253.6	172.0	135.6	50.6	97.6	126.0	226.6	21.2
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: P650692
 CATALOG NUMBER: GALN-SA1C-840-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2
2.5°	1712.4	1695.2	1636.7	1588.3	1537.1	1498.1	1447.1	1413.0	1389.6	1354.2	1349.9
5°	1633.6	1591.7	1489.8	1386.0	1296.3	1228.9	1160.4	1097.6	1060.6	1049.0	1034.1
7.5°	1501.0	1430.3	1299.3	1180.3	1077.4	976.9	899.5	844.6	807.9	786.4	760.6
10°	1391.9	1309.9	1150.5	1004.7	920.0	857.5	789.4	730.5	685.2	646.6	625.4
12.5°	1318.5	1225.9	1046.7	928.3	862.8	796.3	716.6	650.5	583.7	539.7	520.8
15°	1296.3	1198.4	1014.6	890.3	796.3	709.4	620.1	533.8	467.6	426.0	412.1
17.5°	1350.6	1232.1	1014.2	839.7	718.3	614.4	500.1	419.0	351.2	320.1	310.2
20°	1451.7	1297.0	1017.3	789.7	633.6	487.4	363.7	297.3	264.9	251.6	246.7
22.5°	1593.0	1395.9	1026.2	740.4	541.0	374.3	272.5	238.8	227.2	224.9	223.9
25°	1766.9	1518.3	1056.3	696.1	463.0	285.7	227.8	212.6	206.0	203.7	203.4
27.5°	1927.0	1676.3	1092.6	658.1	387.6	246.4	206.0	193.1	186.5	186.2	186.9
30°	2071.5	1808.6	1123.1	615.4	330.3	218.9	191.8	178.9	172.7	172.3	174.3
32.5°	2196.5	1917.4	1145.5	573.4	298.6	202.1	178.9	165.0	159.7	158.7	159.7
35°	2330.1	2025.9	1135.3	540.7	280.5	188.1	169.3	155.8	149.4	146.5	146.5
37.5°	2482.5	2137.7	1117.8	513.6	272.1	176.6	161.1	147.8	141.5	138.6	138.3
40°	2648.9	2249.4	1093.6	489.5	263.9	169.6	155.4	141.5	134.0	130.9	130.3
42.5°	2795.7	2345.0	1073.8	473.6	250.4	171.0	150.5	136.9	127.3	123.4	123.0
45°	2923.4	2441.3	1070.2	464.3	239.1	169.0	149.1	133.3	122.0	117.7	117.1
47.5°	3023.2	2541.4	1090.9	459.0	226.9	158.4	157.8	130.9	117.4	112.8	112.1
50°	3144.9	2683.6	1138.6	448.1	215.6	148.5	166.7	130.6	113.8	107.8	106.1
52.5°	3307.0	2868.8	1203.1	428.6	199.4	139.2	159.0	130.6	109.5	103.5	101.5
55°	3552.0	3105.0	1266.3	401.2	176.6	127.0	143.6	126.7	103.2	97.9	96.5
57.5°	3714.4	3277.5	1306.6	363.1	148.2	118.1	123.7	120.3	96.9	91.2	91.2
60°	3722.7	3323.9	1287.4	315.1	130.3	109.8	107.5	121.4	91.2	85.4	84.7
62.5°	3627.5	3210.4	1187.6	272.1	120.7	100.8	97.2	106.5	85.6	79.7	78.7
65°	3478.6	2921.0	1014.2	251.6	115.4	92.9	87.6	87.3	79.7	74.1	72.7
67.5°	3205.1	2552.7	833.3	239.8	112.8	84.0	79.1	77.4	72.7	68.1	67.4
70°	2802.0	2138.0	668.3	234.8	111.4	74.8	70.7	68.8	64.8	61.1	60.9
72.5°	2180.0	1734.2	551.6	231.5	110.8	66.1	61.8	59.2	56.9	53.6	53.6
75°	1565.9	1275.9	421.0	208.7	102.5	56.9	52.2	50.6	47.3	44.7	45.3
77.5°	987.2	859.2	277.1	153.5	79.4	45.7	41.6	40.7	38.0	34.4	36.7
80°	666.7	604.2	161.7	96.5	50.0	33.4	32.0	31.7	28.8	24.8	25.1
82.5°	453.7	445.1	84.0	54.9	28.8	19.5	18.8	19.5	16.2	13.2	13.2
85°	177.3	242.0	39.7	21.5	9.3	2.9	4.3	4.6	2.6	1.3	1.7
87.5°	3.3	24.8	1.0	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: P650692
 CATALOG NUMBER: GALN-SA1C-840-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2
2.5°	1343.3	1340.3	1345.3	1324.2	1328.4	1336.3	1340.3	1342.7	1375.4	1367.8	1388.6
5°	1048.0	1045.0	1064.2	1066.8	1076.7	1074.8	1084.4	1086.7	1098.6	1102.9	1132.0
7.5°	762.3	775.1	797.0	808.2	825.1	830.4	825.4	837.6	812.8	830.7	836.0
10°	612.4	596.9	587.7	613.4	616.8	641.3	631.3	623.3	637.9	638.6	652.4
12.5°	509.9	476.5	454.4	461.6	469.6	480.2	481.8	497.7	508.3	518.2	526.5
15°	399.8	388.2	368.1	358.2	369.4	373.7	383.9	397.2	408.4	411.4	422.6
17.5°	306.9	308.9	305.5	299.6	306.5	309.8	310.5	310.8	313.9	311.8	328.4
20°	247.0	254.0	262.2	263.6	265.9	267.5	264.6	253.3	253.6	260.6	265.9
22.5°	223.5	224.9	234.1	237.1	244.4	241.5	232.8	227.5	226.9	228.5	231.2
25°	205.0	207.1	213.6	218.2	223.9	218.6	212.3	207.4	206.7	208.3	211.0
27.5°	188.5	191.5	197.5	202.1	207.4	202.4	196.5	192.2	191.8	191.5	193.1
30°	175.3	178.5	182.9	188.1	191.8	187.5	181.9	179.6	179.2	178.5	179.2
32.5°	162.1	167.4	171.6	174.3	178.0	174.6	170.3	169.0	166.7	164.7	163.7
35°	147.2	152.8	159.4	162.7	166.3	163.1	160.0	154.4	150.5	150.1	150.8
37.5°	138.6	140.9	146.2	151.8	155.4	153.7	148.2	142.5	141.5	141.5	142.2
40°	130.9	132.0	134.2	141.5	148.2	143.2	136.2	134.6	134.6	134.2	134.6
42.5°	123.4	124.4	124.4	129.9	140.5	132.6	127.3	127.3	127.3	127.7	128.7
45°	116.4	116.7	116.4	120.3	130.3	123.7	120.0	121.0	121.7	122.4	123.0
47.5°	110.4	110.8	110.4	113.8	118.7	116.1	114.1	115.4	116.7	117.7	118.4
50°	105.1	104.9	105.5	107.5	109.8	110.4	109.2	111.1	111.8	113.1	114.7
52.5°	100.5	100.2	100.8	101.8	105.1	105.1	105.1	106.8	108.2	109.5	111.8
55°	95.2	95.5	96.5	97.9	102.2	101.5	101.8	103.2	104.5	106.5	107.8
57.5°	90.2	90.9	92.3	94.3	98.6	98.2	98.6	99.2	100.8	101.8	103.2
60°	84.7	86.0	87.6	89.0	93.3	92.9	94.6	95.9	96.9	96.9	97.6
62.5°	79.1	81.0	82.7	83.7	88.3	88.6	90.9	91.9	92.6	91.9	92.9
65°	73.4	76.4	77.0	78.4	83.0	83.3	86.0	88.3	87.6	87.0	88.6
67.5°	67.8	71.4	71.1	72.7	77.4	78.0	80.4	84.4	83.0	82.3	83.7
70°	61.5	64.2	64.5	65.5	71.7	70.7	74.4	78.0	77.0	77.4	77.4
72.5°	54.6	56.9	56.9	58.9	65.5	63.8	66.8	70.7	70.7	70.5	70.5
75°	46.3	47.6	48.9	51.9	58.9	56.9	58.9	62.5	63.2	62.5	62.5
77.5°	37.3	39.4	40.0	44.0	48.9	48.6	50.6	52.2	53.6	52.9	52.9
80°	26.5	28.4	31.1	35.4	38.3	39.4	40.4	41.6	42.3	42.3	43.0
82.5°	14.9	17.8	20.2	24.5	25.8	30.8	30.4	31.5	30.4	26.8	29.8
85°	3.3	6.3	8.9	11.3	12.9	17.8	18.8	21.2	17.5	16.2	16.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	5.3	7.3	6.3	5.3	5.3
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: P650692
 CATALOG NUMBER: GALN-SA1C-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2	1611.2
2.5°	1406.2	1434.9	1469.6	1529.5	1571.5	1616.8	1662.4	1711.0	1724.0	1737.2
5°	1139.9	1196.5	1227.3	1307.6	1391.9	1499.1	1586.7	1682.6	1722.6	1731.9
7.5°	863.5	901.8	982.5	1063.9	1168.4	1280.8	1415.1	1564.5	1611.2	1630.7
10°	684.6	736.8	807.6	894.9	986.5	1107.5	1259.0	1433.6	1499.8	1510.6
12.5°	582.7	640.9	718.0	810.2	896.8	988.1	1140.9	1321.1	1391.9	1415.4
15°	466.0	536.4	625.4	722.6	816.9	916.7	1071.4	1274.9	1356.5	1383.9
17.5°	366.1	422.9	519.2	624.7	736.5	862.8	1056.9	1297.0	1397.6	1423.0
20°	280.1	320.8	401.8	513.3	644.2	809.5	1060.6	1380.7	1501.0	1535.8
22.5°	242.0	262.9	312.2	418.3	564.8	763.3	1075.5	1495.5	1640.6	1698.5
25°	219.2	230.2	257.9	327.4	489.1	718.3	1109.5	1649.9	1835.7	1874.1
27.5°	199.7	207.6	224.9	274.8	420.3	676.6	1149.1	1821.2	2017.9	2075.2
30°	181.2	191.8	208.0	244.1	376.3	638.6	1199.1	1960.0	2171.4	2224.6
32.5°	167.0	177.6	192.5	222.5	339.0	598.5	1228.9	2082.1	2296.7	2342.0
35°	155.4	164.3	179.9	205.4	310.5	568.2	1222.9	2178.9	2418.0	2464.4
37.5°	147.2	154.7	170.3	189.1	289.1	536.4	1220.0	2306.9	2565.9	2619.5
40°	139.5	147.5	161.7	178.5	267.5	499.0	1221.6	2433.9	2723.3	2776.9
42.5°	133.6	142.5	154.1	175.6	245.4	468.9	1221.6	2544.4	2860.2	2911.8
45°	128.7	138.3	149.4	175.3	227.8	446.2	1213.3	2639.3	2969.3	3013.3
47.5°	124.4	134.9	151.1	169.3	223.5	429.6	1206.1	2715.4	3058.3	3099.7
50°	121.4	134.0	160.7	162.4	224.9	424.6	1241.1	2811.3	3136.7	3172.4
52.5°	119.1	134.2	160.4	152.1	222.5	427.9	1314.2	2961.1	3245.5	3248.1
55°	114.5	134.0	152.1	140.5	212.9	433.5	1408.1	3178.7	3415.8	3417.8
57.5°	109.8	130.3	141.2	130.6	193.4	433.5	1521.2	3384.7	3621.2	3622.9
60°	105.1	135.6	124.0	122.0	168.0	425.6	1640.6	3475.3	3685.7	3702.5
62.5°	100.5	136.6	110.8	114.5	149.4	406.5	1729.6	3375.1	3598.4	3622.5
65°	95.2	110.1	102.2	106.5	139.9	374.3	1701.4	3191.6	3434.3	3463.1
67.5°	89.0	93.3	92.9	98.2	136.6	327.1	1553.3	2959.5	3257.7	3256.1
70°	81.3	83.7	84.7	90.2	130.3	290.3	1294.4	2658.1	3022.0	3059.0
72.5°	73.4	75.4	76.4	81.3	124.0	269.5	1004.7	2243.1	2617.5	2675.4
75°	64.8	66.1	67.4	71.7	117.4	238.8	715.6	1712.4	2004.7	2095.7
77.5°	55.9	55.9	57.5	61.8	98.9	197.1	480.2	1201.1	1358.2	1451.1
80°	45.3	45.7	45.0	49.6	72.7	134.9	272.8	802.3	903.8	921.7
82.5°	34.7	33.7	34.1	36.4	54.2	91.9	145.5	498.4	508.0	498.0
85°	21.9	21.9	21.2	23.8	34.7	47.9	79.4	305.2	238.4	226.9
87.5°	8.9	7.3	8.2	9.6	16.6	19.5	31.1	62.8	24.1	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)