

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: P651682

Luminaire Tested: **GALN-SA1A-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651682  
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-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 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: 3354.7 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

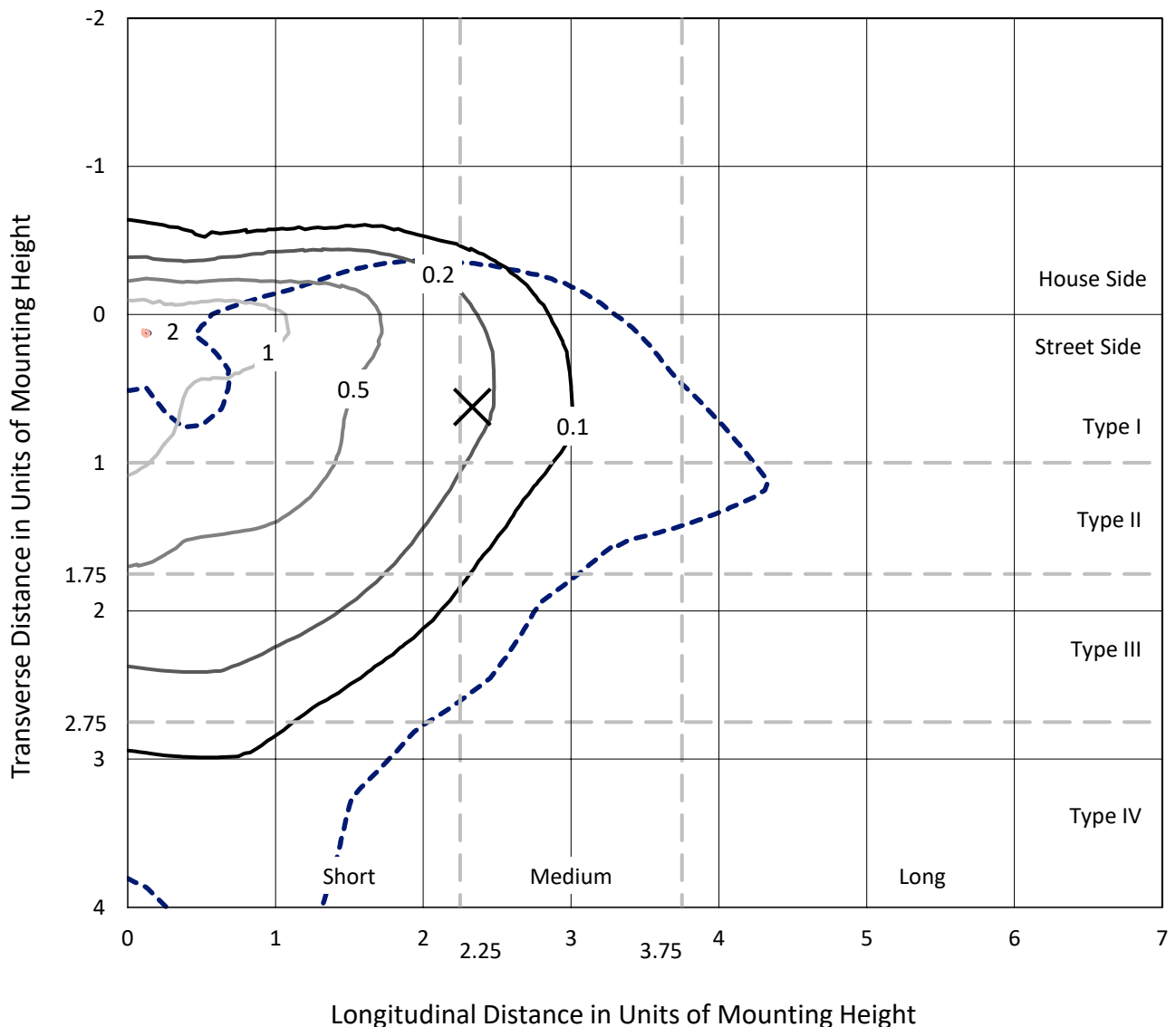
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651682  
 CATALOG NUMBER: GALN-SA1A-840-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

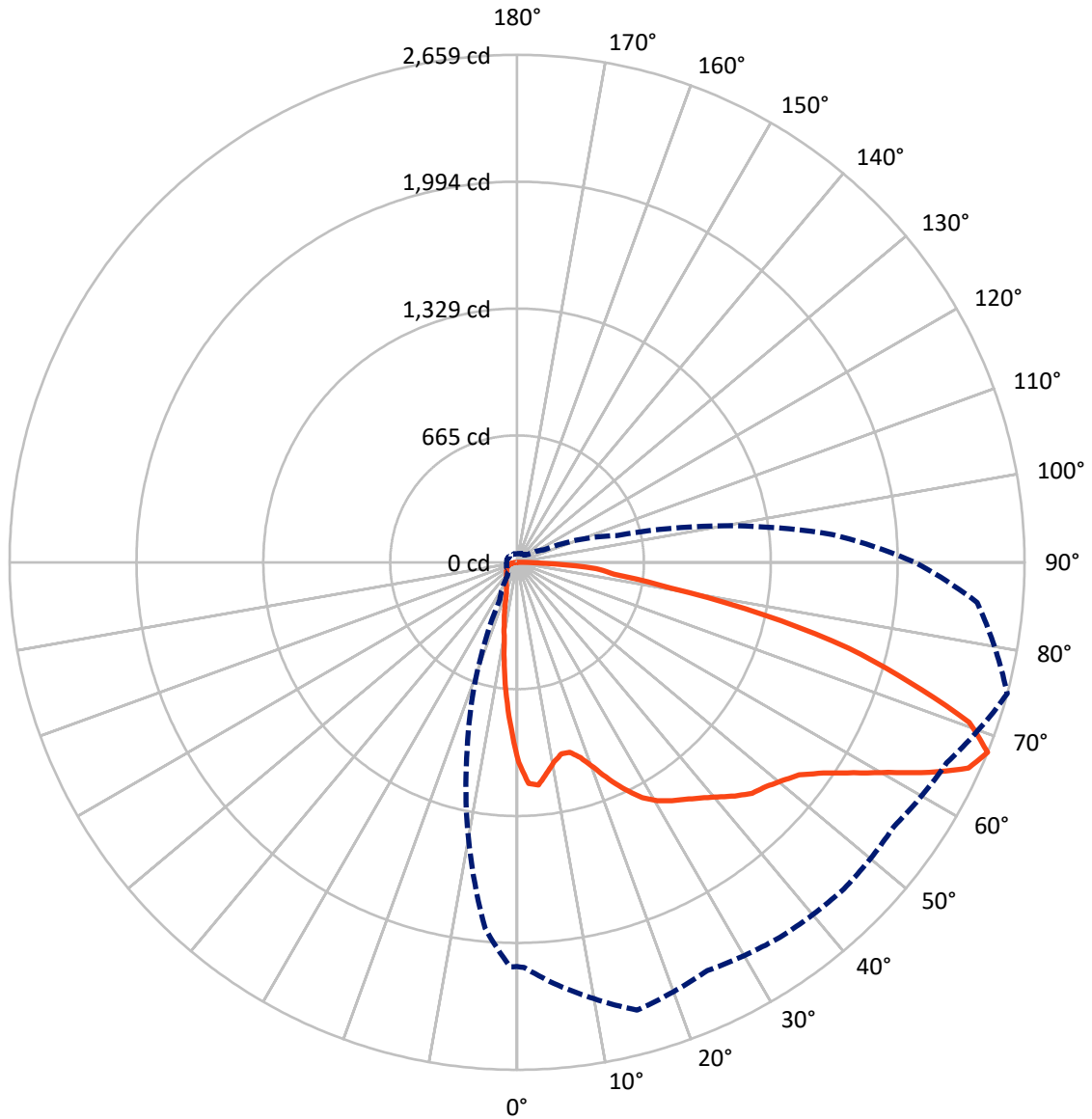
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P651682  
CATALOG NUMBER: GALN-SA1A-840-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-840-U-SLL

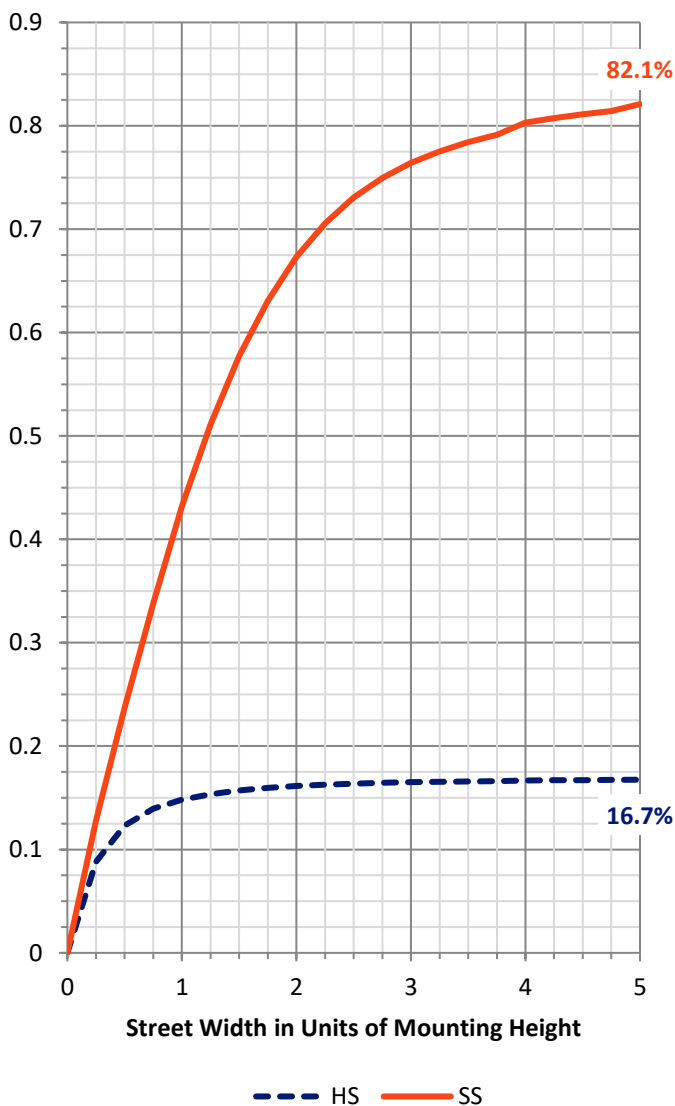
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	567.0	0.0	567.0
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	2787.7	0.0	2787.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	3354.7	0.0	3354.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	2.4
10°-20°	165.8	4.9
20°-30°	238.6	7.1
30°-40°	343.6	10.2
40°-50°	482.7	14.4
50°-60°	673.2	20.1
60°-70°	800.4	23.9
70°-80°	471.4	14.1
80°-90°	99.7	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°	3354.7	100.0
0°-180°	3354.7	100.0

**Coefficient of Utilization**

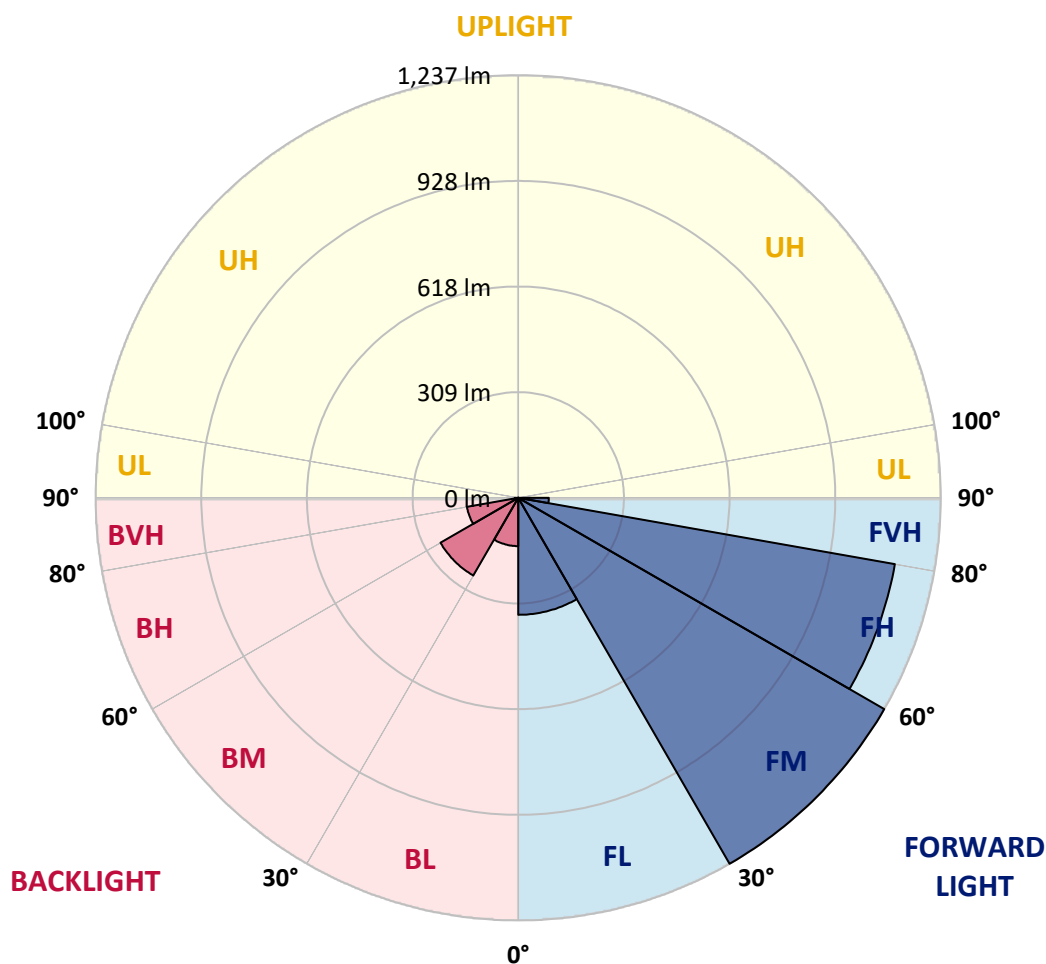


REPORT NUMBER: P651682  
 CATALOG NUMBER: GALN-SA1A-840-U-SLL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.4	10.2			
FM (30°-60°)	1236.8	36.9			
FH (60°-80°)	1119.2	33.4			G1/1800
FVH (80°-90°)	89.4	2.7			G1/100
BL (0°-30°)	141.4	4.2	B1/500		
BM (30°-60°)	262.7	7.8	B1/1000		
BH (60°-80°)	152.6	4.5	B1/500		G1/500
BVH (80°-90°)	10.3	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-G1**  
 Type III Medium





REPORT NUMBER: P651682

CATALOG NUMBER: GALN-SA1A-840-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1
2.5°	1130.1	1131.6	1141.2	1169.4	1188.8	1195.9	1200.9	1191.6	1182.5	1160.6	1127.4
5°	1126.6	1135.4	1160.6	1223.8	1273.8	1295.3	1301.7	1273.9	1228.2	1171.8	1104.1
7.5°	1060.8	1072.6	1111.4	1217.4	1305.4	1355.8	1349.0	1298.9	1216.3	1115.8	1021.2
10°	982.7	995.8	1042.5	1170.8	1284.1	1353.3	1353.3	1292.3	1182.5	1063.2	954.1
12.5°	920.7	934.5	987.8	1122.7	1239.8	1305.4	1316.3	1263.9	1158.2	1029.8	910.0
15°	900.3	913.7	971.1	1093.7	1192.9	1232.9	1236.5	1219.4	1146.5	1032.2	908.0
17.5°	925.7	942.9	1001.0	1102.3	1149.9	1152.3	1155.0	1168.6	1147.7	1075.4	947.2
20°	999.0	1017.5	1078.2	1130.1	1112.2	1087.7	1089.2	1124.1	1163.0	1146.9	1040.8
22.5°	1104.9	1121.1	1183.2	1178.9	1096.3	1045.7	1035.2	1083.8	1185.6	1235.9	1140.4
25°	1219.1	1238.0	1309.5	1251.4	1100.8	1020.8	1014.1	1060.2	1209.0	1319.2	1255.4
27.5°	1349.9	1368.4	1424.8	1324.6	1124.5	1018.9	1010.9	1058.0	1230.1	1396.1	1365.4
30°	1447.2	1464.2	1502.4	1386.1	1153.5	1031.7	1021.9	1075.0	1248.2	1448.9	1472.6
32.5°	1523.6	1541.2	1562.1	1424.4	1191.8	1055.2	1037.0	1106.0	1271.8	1489.1	1551.9
35°	1603.1	1624.0	1622.5	1458.4	1227.5	1082.3	1064.5	1150.7	1309.0	1524.1	1652.6
37.5°	1704.0	1712.4	1701.7	1488.9	1270.3	1131.1	1121.2	1217.2	1362.0	1566.5	1770.3
40°	1806.5	1823.2	1768.0	1525.9	1322.4	1223.0	1221.9	1315.5	1424.8	1616.2	1884.3
42.5°	1894.2	1908.4	1829.8	1558.2	1385.5	1335.1	1343.2	1447.4	1507.2	1673.9	1975.9
45°	1960.3	1972.9	1887.1	1589.4	1468.5	1464.6	1512.8	1588.7	1611.1	1725.7	2029.8
47.5°	2016.4	2028.7	1926.9	1636.7	1571.1	1619.3	1703.2	1736.1	1699.9	1755.4	2090.0
50°	2063.7	2067.3	1954.2	1693.0	1698.4	1808.8	1890.1	1911.4	1787.7	1798.1	2142.3
52.5°	2113.0	2108.2	2001.3	1764.1	1836.2	1988.6	2047.8	2070.0	1871.8	1850.5	2218.4
55°	2223.4	2227.9	2107.0	1853.6	1975.3	2165.2	2243.1	2221.8	1965.0	1947.1	2315.2
57.5°	2356.7	2352.9	2255.6	1993.6	2117.0	2329.7	2387.7	2353.5	2089.3	2079.9	2413.3
60°	2408.5	2413.8	2379.9	2144.2	2256.9	2473.5	2532.9	2479.8	2238.4	2234.1	2487.3
62.5°	2356.5	2385.6	2408.4	2278.2	2376.1	2579.3	2638.3	2577.7	2393.9	2425.1	2539.1
65°	2252.8	2259.1	2336.7	2391.8	2433.5	2596.8	2627.5	2595.3	2523.8	2599.2	2536.8
67.5°	2118.1	2123.5	2214.5	2429.0	2359.5	2398.9	2420.4	2411.0	2483.6	2658.7	2420.0
70°	1990.0	1985.6	2081.8	2334.1	2054.1	1994.3	2012.1	1982.4	2143.1	2513.2	2190.9
72.5°	1740.4	1755.8	1859.1	2070.4	1626.3	1529.1	1568.0	1491.3	1648.3	2152.4	1778.2
75°	1363.3	1367.0	1539.2	1737.6	1226.9	1073.5	1126.2	1094.1	1262.6	1795.5	1227.9
77.5°	944.0	935.8	1121.1	1327.1	874.9	785.8	786.8	771.4	881.6	1322.0	834.3
80°	599.5	587.1	701.7	819.9	601.3	643.2	622.2	621.5	574.0	815.5	504.5
82.5°	324.0	337.7	443.4	513.9	431.3	497.2	455.7	442.3	393.9	510.5	322.7
85°	147.6	160.5	236.4	349.6	327.7	331.3	221.4	261.1	325.9	414.5	172.3
87.5°	14.4	18.5	48.9	165.0	111.9	88.2	32.9	63.5	82.0	147.3	13.8
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: P651682

CATALOG NUMBER: GALN-SA1A-840-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1
2.5°	1113.9	1102.7	1064.7	1033.3	999.9	974.6	941.4	919.2	904.0	880.9	878.2
5°	1062.8	1035.4	969.2	901.6	843.3	799.5	754.9	714.0	690.0	682.4	672.7
7.5°	976.5	930.4	845.2	767.8	700.9	635.5	585.2	549.4	525.5	511.6	494.8
10°	905.5	852.1	748.4	653.5	598.5	557.8	513.5	475.2	445.7	420.6	406.8
12.5°	857.7	797.5	680.9	603.8	561.3	518.1	466.2	423.2	379.7	351.1	338.8
15°	843.3	779.6	660.0	579.1	518.1	461.5	403.3	347.2	304.2	277.1	268.0
17.5°	878.6	801.6	659.8	546.2	467.3	399.7	325.3	272.6	228.5	208.2	201.8
20°	944.4	843.7	661.7	513.8	412.2	317.1	236.7	193.4	172.3	163.7	160.5
22.5°	1036.3	908.0	667.5	481.6	352.0	243.6	177.3	155.3	147.8	146.2	145.7
25°	1149.4	987.7	687.1	452.9	301.2	185.9	148.2	138.3	134.1	132.5	132.3
27.5°	1253.5	1090.5	710.8	428.1	252.1	160.3	134.1	125.6	121.4	121.1	121.5
30°	1347.5	1176.6	730.6	400.3	214.9	142.4	124.8	116.4	112.3	112.1	113.4
32.5°	1428.9	1247.3	745.2	373.1	194.3	131.4	116.4	107.3	103.9	103.3	103.9
35°	1515.8	1317.8	738.6	351.7	182.4	122.4	110.2	101.3	97.2	95.3	95.3
37.5°	1615.0	1390.6	727.1	334.1	177.0	114.9	104.8	96.1	92.1	90.2	89.9
40°	1723.2	1463.3	711.4	318.4	171.6	110.3	101.1	92.1	87.1	85.2	84.8
42.5°	1818.7	1525.5	698.5	308.1	162.8	111.2	97.9	89.1	82.8	80.2	80.1
45°	1901.8	1588.1	696.2	302.0	155.5	109.9	97.1	86.7	79.4	76.6	76.2
47.5°	1966.7	1653.2	709.7	298.6	147.6	103.0	102.6	85.2	76.4	73.3	72.9
50°	2045.9	1745.7	740.7	291.5	140.3	96.6	108.4	84.9	74.0	70.1	69.0
52.5°	2151.3	1866.3	782.6	278.8	129.7	90.6	103.4	84.9	71.2	67.4	66.0
55°	2310.6	2019.8	823.8	261.0	114.9	82.6	93.4	82.4	67.1	63.7	62.8
57.5°	2416.3	2132.1	850.0	236.2	96.4	76.8	80.5	78.3	63.0	59.4	59.4
60°	2421.7	2162.2	837.5	205.0	84.8	71.4	69.9	79.0	59.4	55.5	55.1
62.5°	2359.8	2088.5	772.5	177.0	78.5	65.6	63.2	69.3	55.8	51.8	51.2
65°	2263.0	1900.2	659.8	163.7	75.1	60.5	57.0	56.8	51.8	48.2	47.3
67.5°	2085.0	1660.6	542.1	156.0	73.3	54.7	51.4	50.4	47.3	44.3	43.9
70°	1822.8	1390.8	434.8	152.7	72.5	48.6	46.0	44.7	42.1	39.8	39.6
72.5°	1418.1	1128.1	358.9	150.6	72.1	43.1	40.2	38.5	37.0	34.8	34.8
75°	1018.6	830.0	273.8	135.7	66.7	37.0	34.0	32.9	30.8	29.0	29.4
77.5°	642.2	558.9	180.3	99.8	51.6	29.7	27.1	26.5	24.7	22.4	23.9
80°	433.7	393.0	105.2	62.8	32.5	21.7	20.9	20.7	18.8	16.1	16.3
82.5°	295.2	289.6	54.7	35.7	18.8	12.7	12.3	12.7	10.5	8.6	8.6
85°	115.3	157.4	25.8	14.0	6.1	1.9	2.8	3.0	1.7	0.8	1.1
87.5°	2.2	16.1	0.7	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: P651682  
 CATALOG NUMBER: GALN-SA1A-840-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1
2.5°	873.9	871.9	875.1	861.4	864.1	869.3	871.9	873.4	894.7	889.8	903.3
5°	681.7	679.8	692.3	694.0	700.5	699.2	705.4	706.9	714.7	717.5	736.4
7.5°	495.9	504.3	518.5	525.8	536.7	540.2	537.0	544.9	528.8	540.4	543.9
10°	398.4	388.3	382.3	399.1	401.2	417.1	410.7	405.5	414.9	415.4	424.5
12.5°	331.7	310.0	295.6	300.3	305.5	312.3	313.4	323.8	330.7	337.1	342.5
15°	260.1	252.6	239.4	233.0	240.3	243.1	249.8	258.4	265.7	267.6	274.9
17.5°	199.7	200.9	198.8	194.9	199.4	201.6	202.0	202.3	204.2	202.8	213.6
20°	160.7	165.3	170.6	171.5	173.0	174.0	172.1	164.8	165.0	169.5	173.0
22.5°	145.4	146.2	152.3	154.2	158.9	157.0	151.5	148.0	147.6	148.7	150.4
25°	133.4	134.6	138.9	142.0	145.7	142.2	138.1	134.9	134.5	135.6	137.3
27.5°	122.6	124.6	128.4	131.4	134.9	131.6	127.7	125.0	124.8	124.6	125.6
30°	114.0	116.1	119.0	122.4	124.8	121.9	118.3	116.8	116.6	116.1	116.6
32.5°	105.4	108.8	111.7	113.4	115.7	113.6	110.8	109.9	108.4	107.1	106.5
35°	95.7	99.4	103.7	105.9	108.2	106.1	104.1	100.5	97.9	97.6	98.1
37.5°	90.2	91.7	95.1	98.7	101.1	100.0	96.4	92.7	92.1	92.1	92.5
40°	85.2	85.9	87.4	92.1	96.4	93.2	88.6	87.5	87.5	87.4	87.5
42.5°	80.2	80.9	80.9	84.5	91.4	86.3	82.8	82.8	82.8	83.0	83.7
45°	75.7	75.9	75.7	78.3	84.8	80.5	78.1	78.7	79.1	79.6	80.1
47.5°	71.8	72.1	71.8	74.0	77.2	75.5	74.3	75.1	75.9	76.6	77.0
50°	68.4	68.2	68.6	69.9	71.4	71.8	71.0	72.2	72.7	73.6	74.7
52.5°	65.4	65.2	65.6	66.3	68.4	68.4	68.4	69.5	70.3	71.2	72.7
55°	62.0	62.1	62.8	63.7	66.4	66.0	66.3	67.1	68.0	69.3	70.1
57.5°	58.7	59.1	60.0	61.3	64.1	63.9	64.1	64.5	65.6	66.3	67.1
60°	55.1	55.9	57.0	57.9	60.6	60.5	61.6	62.4	63.0	63.0	63.5
62.5°	51.4	52.7	53.8	54.4	57.4	57.7	59.1	59.8	60.2	59.8	60.5
65°	47.8	49.7	50.1	51.0	54.0	54.2	55.9	57.4	57.0	56.6	57.7
67.5°	44.1	46.5	46.3	47.3	50.4	50.8	52.3	54.8	54.0	53.6	54.4
70°	40.0	41.7	42.0	42.6	46.7	46.0	48.4	50.8	50.1	50.4	50.4
72.5°	35.5	37.0	37.0	38.3	42.6	41.5	43.5	46.0	46.0	45.8	45.8
75°	30.1	30.9	31.9	33.8	38.3	37.0	38.3	40.6	41.1	40.6	40.6
77.5°	24.3	25.6	26.1	28.6	31.9	31.6	32.9	34.0	34.8	34.4	34.4
80°	17.2	18.5	20.2	23.0	25.0	25.6	26.2	27.1	27.5	27.5	28.0
82.5°	9.7	11.6	13.1	15.9	16.8	20.0	19.8	20.4	19.8	17.4	19.3
85°	2.2	4.1	5.8	7.3	8.4	11.6	12.3	13.8	11.4	10.5	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	3.4	4.7	4.1	3.4	3.4
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: P651682  
 CATALOG NUMBER: GALN-SA1A-840-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1	1048.1
2.5°	914.8	933.4	956.0	995.0	1022.3	1051.8	1081.4	1113.1	1121.5	1130.1
5°	741.5	778.3	798.4	850.6	905.5	975.1	1032.2	1094.6	1120.6	1126.6
7.5°	561.7	586.7	639.2	692.1	760.0	833.2	920.6	1017.8	1048.1	1060.8
10°	445.3	479.3	525.4	582.1	641.8	720.5	819.0	932.6	975.6	982.7
12.5°	379.0	416.9	467.0	527.1	583.4	642.8	742.2	859.4	905.5	920.7
15°	303.1	348.9	406.8	470.0	531.3	596.4	697.0	829.3	882.5	900.3
17.5°	238.2	275.2	337.7	406.4	479.1	561.3	687.5	843.7	909.1	925.7
20°	182.2	208.7	261.4	333.9	419.1	526.6	690.0	898.2	976.5	999.0
22.5°	157.4	171.1	203.1	272.1	367.4	496.5	699.6	972.8	1067.2	1104.9
25°	142.6	149.7	167.8	212.9	318.2	467.3	721.7	1073.3	1194.1	1219.1
27.5°	129.9	135.1	146.2	178.8	273.4	440.2	747.6	1184.7	1312.7	1349.9
30°	117.9	124.8	135.3	158.8	244.8	415.4	780.0	1275.0	1412.5	1447.2
32.5°	108.7	115.6	125.2	144.8	220.5	389.4	799.5	1354.4	1494.0	1523.6
35°	101.1	106.9	117.1	133.6	202.0	369.6	795.5	1417.5	1573.0	1603.1
37.5°	95.7	100.7	110.8	123.0	188.0	348.9	793.6	1500.8	1669.2	1704.0
40°	90.7	96.0	105.2	116.1	174.0	324.6	794.7	1583.4	1771.6	1806.5
42.5°	86.9	92.7	100.2	114.2	159.6	305.0	794.7	1655.2	1860.6	1894.2
45°	83.7	89.9	97.2	114.0	148.2	290.2	789.3	1716.9	1931.6	1960.3
47.5°	80.9	87.8	98.3	110.2	145.4	279.5	784.6	1766.4	1989.5	2016.4
50°	79.0	87.1	104.5	105.6	146.2	276.2	807.4	1828.8	2040.5	2063.7
52.5°	77.5	87.4	104.4	99.0	144.8	278.4	854.9	1926.2	2111.2	2113.0
55°	74.4	87.1	99.0	91.4	138.5	282.1	916.0	2067.9	2222.1	2223.4
57.5°	71.4	84.8	91.8	84.9	125.8	282.1	989.6	2201.8	2355.6	2356.7
60°	68.4	88.2	80.7	79.4	109.2	276.9	1067.2	2260.8	2397.6	2408.5
62.5°	65.4	88.8	72.1	74.4	97.2	264.4	1125.1	2195.6	2340.8	2356.5
65°	62.0	71.7	66.4	69.3	91.0	243.6	1106.8	2076.2	2234.1	2252.8
67.5°	57.9	60.6	60.5	63.9	88.8	212.8	1010.5	1925.2	2119.2	2118.1
70°	52.9	54.4	55.1	58.7	84.8	188.9	842.0	1729.2	1965.8	1990.0
72.5°	47.8	49.0	49.7	52.9	80.7	175.3	653.5	1459.2	1702.8	1740.4
75°	42.1	43.1	43.9	46.7	76.4	155.3	465.6	1113.9	1304.1	1363.3
77.5°	36.3	36.3	37.4	40.2	64.3	128.3	312.3	781.4	883.6	944.0
80°	29.4	29.7	29.3	32.3	47.3	87.8	177.5	521.9	587.9	599.5
82.5°	22.6	22.0	22.1	23.6	35.3	59.8	94.7	324.2	330.4	324.0
85°	14.2	14.2	13.8	15.5	22.6	31.2	51.6	198.6	155.1	147.6
87.5°	5.8	4.7	5.4	6.2	10.8	12.7	20.2	40.9	15.7	14.4
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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