

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: P526078

Luminaire Tested: **GALN-SA1A-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3139 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

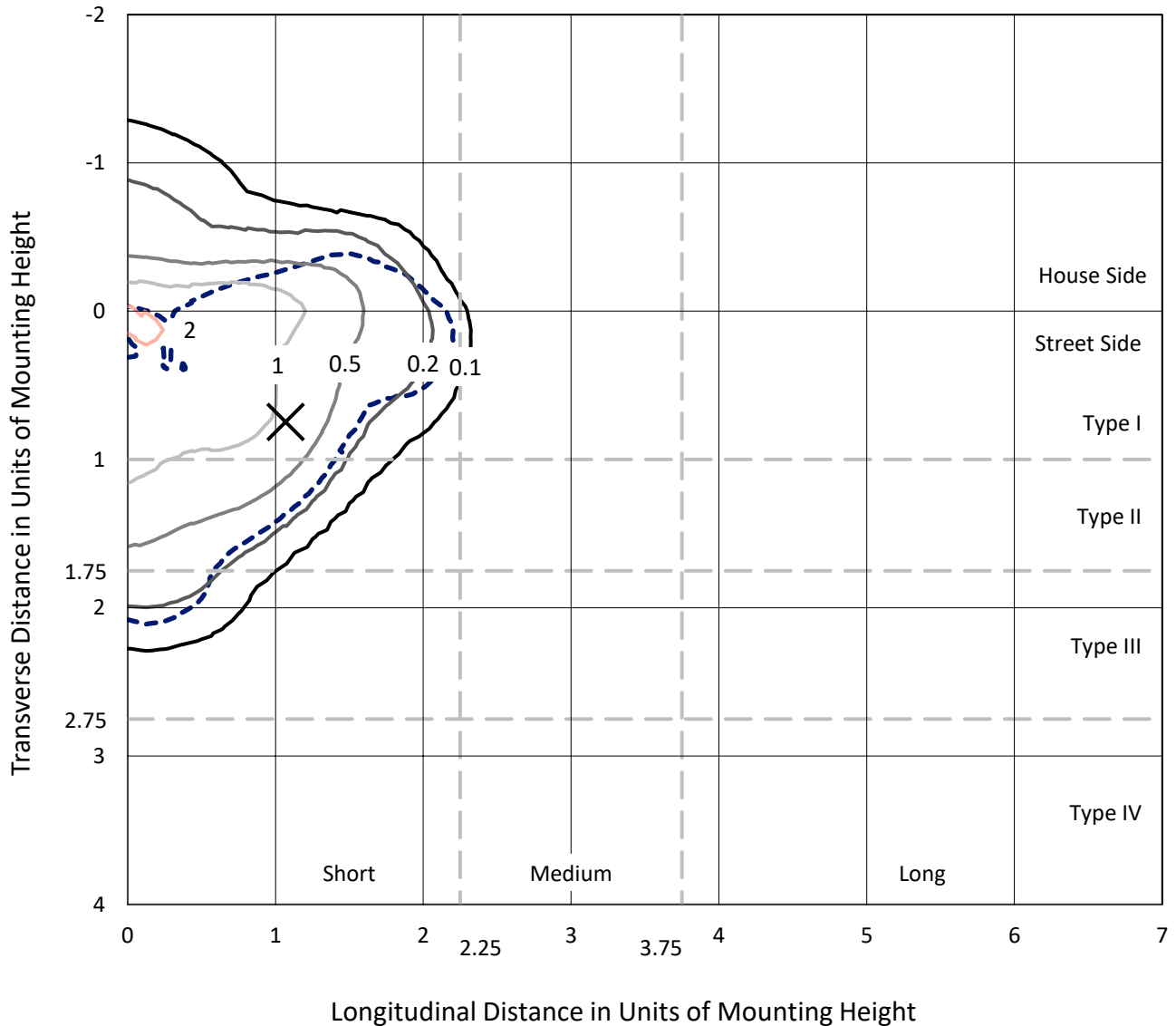
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

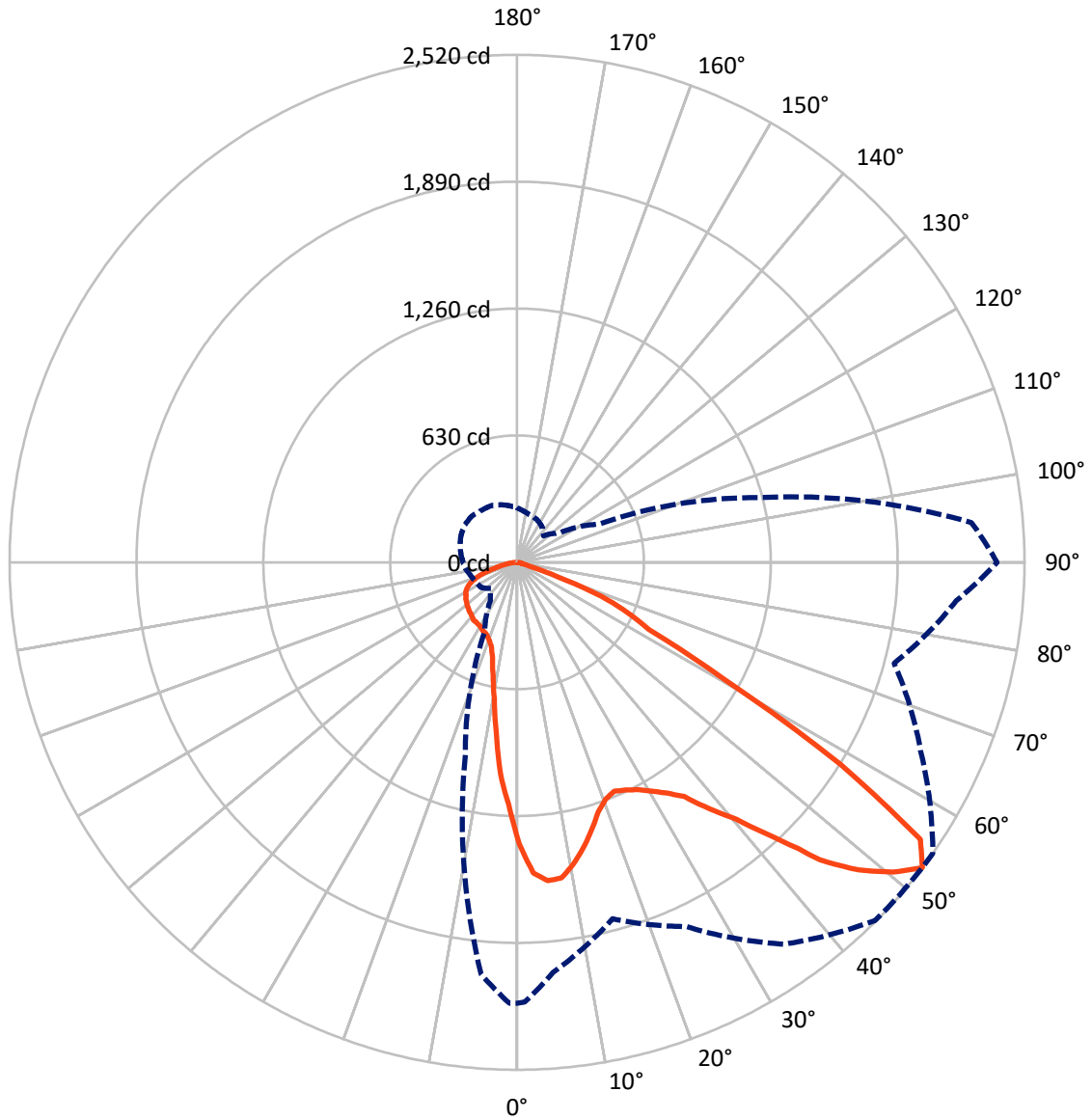
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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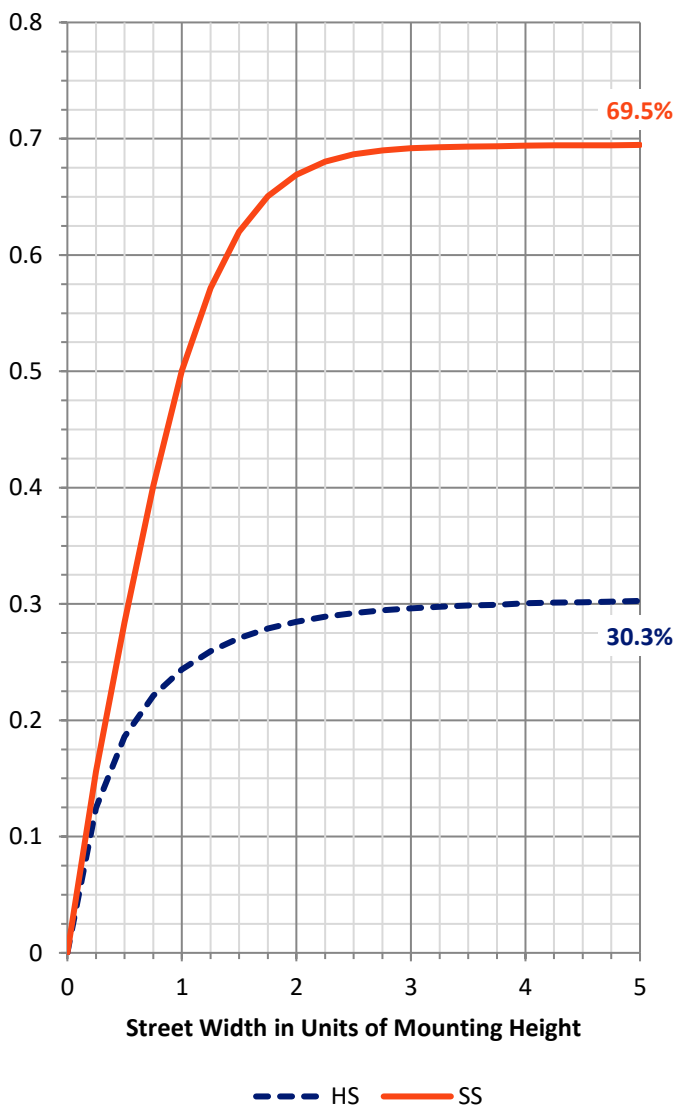
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	957.6	0.0	957.6
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	2181.4	0.0	2181.4
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	3139.0	0.0	3139.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	3.4
10°-20°	230.7	7.3
20°-30°	349.7	11.1
30°-40°	505.3	16.1
40°-50°	675.3	21.5
50°-60°	753.7	24.0
60°-70°	413.5	13.2
70°-80°	89.4	2.8
80°-90°	14.5	0.5
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°	3139.0	100.0
0°-180°	3139.0	100.0

**Coefficient of Utilization**

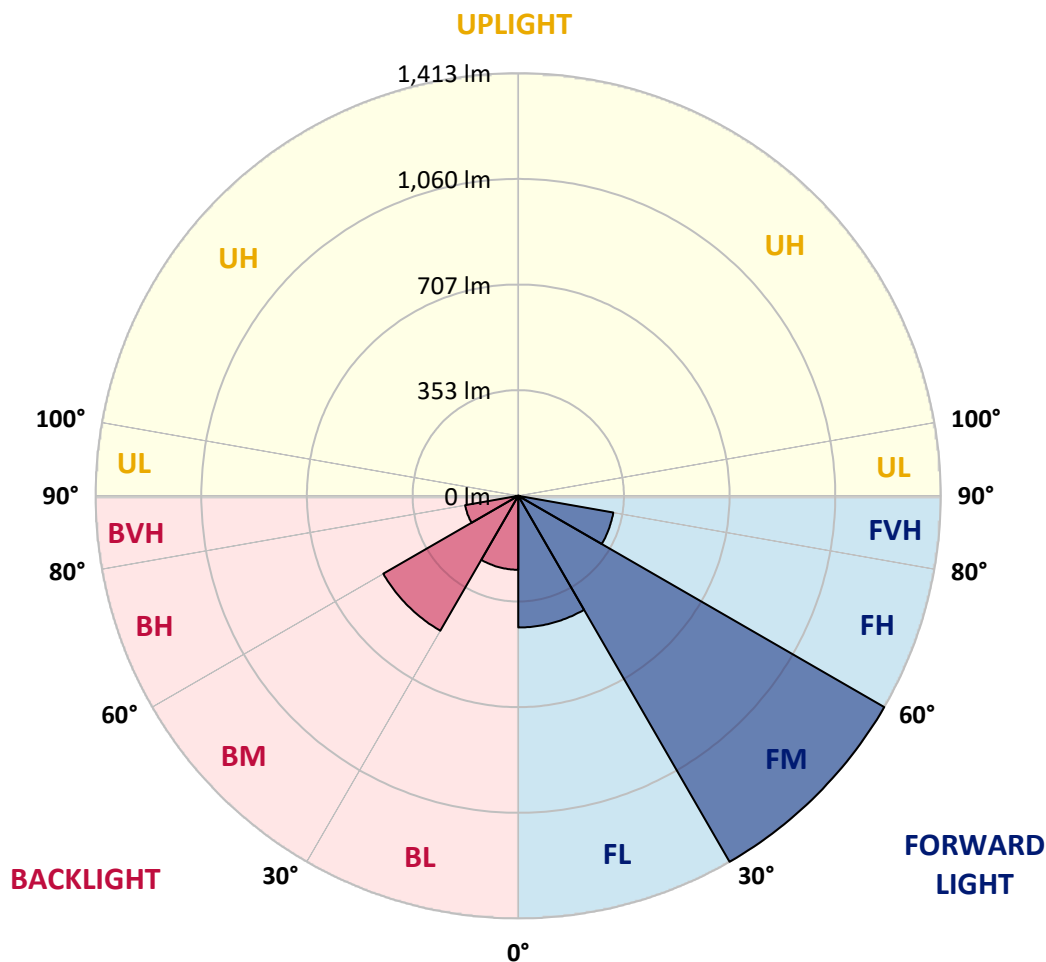


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.1	14.0			
FM (30°-60°)	1413.3	45.0			
FH (60°-80°)	322.6	10.3			G0/660
FVH (80°-90°)	5.4	0.2			G0/10
BL (0°-30°)	247.2	7.9	B1/500		
BM (30°-60°)	521.0	16.6	B1/1000		
BH (60°-80°)	180.2	5.7	B1/500		G1/500
BVH (80°-90°)	9.1	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1469.4	1461.2	1468.5	1503.4	1523.5	1537.3	1546.0	1544.6	1511.6	1479.5	1479.5
5°	1426.4	1415.8	1430.9	1509.8	1589.1	1595.9	1607.4	1588.6	1540.0	1481.4	1408.0
7.5°	1301.7	1309.5	1334.7	1438.3	1541.4	1593.2	1606.9	1583.1	1504.3	1394.7	1287.0
10°	1194.0	1212.3	1270.5	1382.4	1477.2	1544.6	1559.7	1526.3	1463.9	1329.7	1233.4
12.5°	1156.9	1145.4	1210.0	1321.9	1412.6	1448.8	1455.7	1458.0	1415.8	1296.7	1179.3
15°	1152.3	1159.6	1210.0	1294.8	1350.7	1352.6	1364.0	1381.9	1387.4	1319.1	1204.5
17.5°	1218.3	1209.6	1261.4	1328.7	1302.2	1275.6	1278.3	1304.0	1349.4	1338.4	1283.8
20°	1315.9	1335.6	1376.4	1369.5	1298.0	1230.7	1231.1	1255.4	1344.8	1418.1	1394.3
22.5°	1478.2	1497.4	1527.7	1444.7	1298.0	1217.4	1201.8	1234.8	1374.1	1513.0	1518.9
25°	1626.2	1661.5	1669.7	1572.1	1363.1	1229.7	1219.6	1252.2	1403.4	1605.6	1662.0
27.5°	1761.0	1773.8	1810.0	1654.2	1399.3	1238.0	1237.1	1278.8	1440.6	1651.9	1789.8
30°	1867.3	1865.9	1886.5	1706.0	1457.1	1284.3	1239.8	1318.7	1489.2	1728.4	1908.1
32.5°	1939.7	1955.3	1998.8	1777.9	1481.4	1328.3	1293.4	1365.4	1548.3	1764.6	1991.5
35°	2067.1	2094.2	2039.2	1817.8	1558.4	1371.8	1331.0	1429.1	1577.6	1804.0	2093.7
37.5°	2187.2	2166.6	2110.7	1839.3	1608.3	1452.5	1414.4	1552.4	1668.8	1889.7	2161.5
40°	2264.2	2263.8	2164.3	1856.7	1643.6	1575.8	1573.5	1677.5	1780.7	1943.8	2237.6
42.5°	2297.7	2329.8	2186.3	1854.9	1717.9	1725.2	1771.5	1864.5	1860.0	1954.8	2235.8
44°	2343.5	2362.8	2224.3	1859.0	1767.4	1826.0	1935.1	1994.2	1929.2	1948.9	2233.5
45°	2341.7	2343.0	2170.3	1864.5	1809.5	1910.4	2008.0	2107.9	1990.1	1936.0	2263.8
47.5°	2288.0	2272.5	2124.4	1823.7	1941.1	2133.1	2223.4	2283.9	2065.3	1908.5	2226.2
50°	2182.2	2164.3	2013.0	1806.3	1968.6	2271.5	2396.2	2418.2	2133.6	1881.5	2189.0
52.5°	2189.5	2184.5	2044.7	1832.5	1996.1	2315.1	2514.9	2520.4	2211.0	1938.3	2189.5
55°	2320.6	2303.2	2135.4	1865.0	1975.9	2264.2	2439.3	2429.7	2184.9	1904.0	2229.8
57.5°	2123.5	2135.0	2009.8	1736.2	1729.3	1840.7	1917.7	1893.9	1823.3	1718.3	2074.5
60°	1713.3	1745.8	1757.7	1452.0	1304.9	1247.6	1224.7	1182.5	1194.4	1411.7	1822.4
62.5°	1469.4	1467.6	1542.3	1316.4	854.8	735.2	724.2	733.8	871.3	1389.7	1784.8
65°	1165.1	1196.3	1219.2	1115.6	676.5	545.9	545.4	606.4	754.0	1161.4	1441.0
67.5°	739.8	780.6	809.0	713.6	452.4	388.7	378.1	451.5	522.5	761.8	867.6
70°	417.1	436.3	449.2	411.6	287.8	201.7	189.8	207.2	315.8	493.2	514.3
72.5°	160.9	169.6	187.0	188.4	108.6	65.1	52.7	63.3	132.9	195.3	186.1
75°	24.8	26.6	37.6	44.9	31.2	23.8	25.2	26.1	37.1	50.4	42.2
77.5°	11.9	11.9	11.5	13.3	15.6	17.0	18.3	20.2	22.0	24.3	23.4
80°	7.8	7.8	7.8	9.2	11.5	13.8	15.6	16.5	17.4	19.3	18.3
82.5°	5.0	5.0	5.0	6.9	9.2	11.5	12.4	14.7	16.5	19.3	17.9
85°	2.8	2.8	2.8	4.6	6.9	9.6	9.2	7.3	4.1	0.5	0.9
87.5°	0.9	0.9	0.9	0.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1441.0	1419.9	1418.1	1375.0	1336.5	1317.7	1302.6	1260.4	1269.6	1245.3	1244.9
5°	1371.4	1328.3	1258.6	1201.3	1144.0	1132.6	1082.6	1039.1	1040.4	1009.3	1014.8
7.5°	1246.2	1216.4	1131.6	1041.8	965.7	911.6	864.4	836.0	799.8	787.4	781.0
10°	1166.9	1130.3	1034.9	922.2	836.9	808.1	762.7	737.5	700.3	682.0	669.2
12.5°	1132.1	1078.5	959.3	844.7	787.9	758.1	719.6	673.8	629.8	612.8	589.4
15°	1135.8	1071.6	937.3	813.6	745.3	687.5	653.1	602.3	557.3	527.6	510.6
17.5°	1191.2	1113.3	947.4	789.7	691.6	619.2	551.8	496.8	461.1	438.6	433.1
20°	1322.3	1216.4	964.4	751.2	638.0	547.7	464.8	407.5	380.0	379.5	380.0
22.5°	1431.4	1326.4	998.7	728.3	584.4	456.1	373.5	355.2	349.7	361.2	362.5
25°	1578.5	1450.2	1057.9	716.4	534.9	388.7	337.8	330.9	330.5	345.1	345.6
27.5°	1729.3	1558.4	1093.1	681.6	484.5	353.8	316.3	314.9	322.2	337.8	336.4
30°	1832.0	1649.1	1156.9	639.8	424.9	323.1	307.5	309.4	319.5	331.4	333.2
32.5°	1951.6	1738.5	1173.4	616.9	388.2	297.5	286.5	290.6	303.4	322.2	332.3
35°	2088.7	1801.7	1198.6	585.8	374.5	277.8	272.3	276.8	292.4	304.8	315.8
37.5°	2190.0	1913.6	1203.1	561.5	359.3	266.8	258.0	273.2	282.3	299.8	305.3
40°	2265.1	1994.7	1215.1	546.3	347.4	252.5	252.5	262.6	275.0	291.0	302.0
42.5°	2313.3	2053.8	1223.8	532.6	324.5	248.4	246.1	256.2	272.7	288.3	293.3
44°	2342.6	2079.0	1215.1	519.8	318.1	243.4	243.4	252.1	264.9	283.3	289.2
45°	2349.9	2110.7	1195.8	519.3	310.3	237.4	236.5	253.0	261.7	284.2	287.8
47.5°	2378.3	2149.6	1198.1	504.6	291.5	223.2	239.3	246.6	254.4	274.1	286.5
50°	2377.4	2173.9	1193.1	483.1	277.8	207.2	233.8	242.0	249.8	270.0	275.0
52.5°	2383.8	2264.7	1239.4	448.7	253.0	186.5	215.4	233.8	243.4	260.3	270.9
55°	2380.6	2316.5	1285.2	423.1	218.2	174.2	199.8	221.4	235.1	253.0	258.0
57.5°	2174.4	2047.4	1189.4	374.9	180.6	159.5	177.8	208.5	226.0	244.3	250.7
60°	1776.5	1578.1	980.9	275.9	148.5	146.7	165.5	204.4	211.8	227.8	238.8
62.5°	1641.8	1384.2	777.8	210.8	127.0	134.3	152.6	184.7	196.2	215.9	226.0
65°	1284.7	919.4	481.7	142.5	111.8	120.5	138.0	161.8	180.6	198.9	210.8
67.5°	760.8	502.3	238.3	99.9	97.6	106.8	124.7	142.5	164.1	184.3	190.2
70°	414.3	247.0	101.8	76.1	83.0	91.2	108.6	121.0	141.6	157.2	167.3
72.5°	132.9	75.2	50.9	56.4	63.3	72.9	83.4	98.5	113.2	122.4	130.6
75°	32.1	31.6	36.2	39.4	45.8	53.2	61.9	69.7	81.1	89.8	97.2
77.5°	22.5	24.3	28.0	32.5	34.8	37.6	43.1	49.0	54.1	60.5	65.1
80°	17.4	18.8	21.5	23.8	26.1	28.4	31.2	33.5	36.7	40.8	43.1
82.5°	16.5	17.4	20.2	21.5	20.6	20.2	22.0	22.9	23.4	24.8	26.1
85°	1.4	0.0	0.9	3.2	7.8	11.5	12.4	12.4	11.9	12.8	12.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1239.4	1223.8	1229.7	1237.1	1226.5	1202.2	1208.6	1205.9	1230.7	1228.8	1253.6
5°	1039.1	1014.8	1017.5	1053.3	1041.8	1054.2	1029.4	1026.2	1030.8	1033.1	1037.2
7.5°	795.2	792.0	819.5	849.8	864.0	849.3	825.0	819.5	814.5	804.4	827.3
10°	649.0	649.9	648.1	671.0	687.1	683.8	669.2	667.3	657.7	654.1	666.9
12.5°	579.3	567.0	561.0	553.7	566.1	574.3	567.9	563.3	563.8	568.3	570.2
15°	512.0	504.2	491.3	483.1	489.1	484.9	482.6	491.8	489.5	488.6	499.6
17.5°	436.3	442.8	441.8	432.7	440.5	437.3	436.8	430.4	421.7	415.3	418.9
20°	386.4	398.3	407.5	407.9	412.1	411.6	404.7	385.0	378.6	377.2	378.1
22.5°	368.5	374.9	385.9	401.5	401.5	394.2	385.9	363.0	357.0	350.6	347.9
25°	354.3	366.7	380.9	382.7	390.0	383.2	369.9	358.4	346.0	337.3	337.3
27.5°	347.0	360.7	371.3	374.5	384.5	379.0	365.3	350.6	336.0	335.5	327.7
30°	343.8	356.6	363.5	371.3	375.8	367.1	363.0	347.4	332.8	329.1	316.3
32.5°	334.1	352.5	365.3	363.5	367.1	363.5	357.5	344.7	328.2	319.9	318.5
35°	323.1	341.5	355.2	364.8	367.1	359.3	355.7	338.3	315.8	311.7	297.5
37.5°	317.2	328.2	345.1	360.7	363.9	359.8	347.4	329.5	307.1	302.5	290.1
40°	309.8	324.0	337.3	350.2	359.8	349.7	335.5	318.1	308.0	294.3	290.6
42.5°	304.3	320.4	331.4	345.6	356.6	343.3	326.8	314.9	300.7	291.5	281.0
44°	302.5	317.2	324.5	341.9	351.1	341.0	327.3	314.9	298.4	290.1	281.0
45°	296.1	316.3	324.0	339.6	347.4	339.2	321.8	309.4	297.5	287.4	277.8
47.5°	289.7	303.4	316.7	329.1	334.6	331.8	317.2	302.0	287.8	281.9	272.7
50°	287.8	301.6	314.0	325.4	331.8	326.3	313.0	298.4	281.9	272.3	264.5
52.5°	278.7	295.6	309.4	313.0	321.3	318.1	308.0	292.0	276.4	268.1	261.7
55°	265.4	283.3	302.0	306.6	318.5	313.5	298.4	283.3	270.0	257.6	249.3
57.5°	260.3	277.8	296.1	302.0	309.4	301.1	297.5	281.4	260.3	253.9	241.1
60°	247.5	269.5	284.6	298.4	298.8	296.5	290.1	271.8	254.4	242.5	233.3
62.5°	237.4	258.0	270.0	282.8	290.6	284.2	277.8	260.8	242.0	228.7	218.2
65°	222.8	241.5	251.6	259.4	268.1	267.2	256.2	243.8	224.1	213.6	203.5
67.5°	200.3	216.8	230.5	237.9	243.4	242.0	233.8	225.0	204.9	194.3	187.0
70°	173.3	190.2	198.9	203.0	208.5	211.3	204.9	200.8	182.9	169.1	162.3
72.5°	139.3	150.3	163.2	166.8	169.1	171.0	171.0	167.3	149.0	143.5	131.5
75°	102.7	111.4	121.0	121.0	125.1	125.6	126.5	124.2	110.5	103.1	100.4
77.5°	69.7	76.1	83.9	87.1	89.8	89.4	88.9	82.5	75.2	72.0	69.2
80°	45.4	51.8	55.5	59.6	62.3	61.9	62.8	58.2	55.0	49.5	50.4
82.5°	27.0	32.1	35.8	40.8	40.8	42.2	42.2	40.8	37.6	34.8	34.8
85°	12.8	17.0	19.3	22.5	24.3	24.8	22.0	18.8	15.6	14.2	15.6
87.5°	2.3	3.2	4.6	4.1	5.0	4.6	4.6	4.6	4.6	3.7	4.1
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: P526078

CATALOG NUMBER: GALN-SA1A-730-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1244.4	1267.3	1283.4	1309.9	1355.8	1392.4	1430.0	1458.0	1461.2	1469.4
5°	1052.4	1064.7	1105.5	1158.7	1196.3	1258.2	1298.0	1370.4	1397.5	1426.4
7.5°	821.8	842.0	896.5	932.3	1014.8	1092.2	1172.4	1261.8	1297.6	1301.7
10°	693.0	722.3	759.5	816.8	861.7	947.9	1047.8	1147.2	1187.1	1194.0
12.5°	608.7	646.3	695.8	737.0	780.1	855.3	951.1	1073.9	1125.7	1156.9
15°	527.6	566.5	621.1	678.3	716.4	806.2	919.0	1057.4	1124.8	1152.3
17.5°	444.1	480.3	525.3	587.1	663.7	764.5	913.9	1112.4	1186.2	1218.3
20°	372.6	392.8	445.1	508.8	604.6	721.9	915.8	1193.5	1301.7	1315.9
22.5°	344.7	349.3	369.9	428.6	533.5	678.3	948.3	1308.6	1431.4	1478.2
25°	323.1	322.2	327.7	367.1	481.7	661.4	980.4	1414.4	1575.3	1626.2
27.5°	311.2	302.0	302.5	339.6	445.1	633.9	1021.6	1535.9	1738.5	1761.0
30°	305.3	303.4	297.9	313.0	405.2	592.6	1028.5	1655.5	1834.7	1867.3
32.5°	301.6	283.7	276.8	282.3	367.6	547.7	1054.2	1734.4	1953.9	1939.7
35°	283.3	267.2	262.6	268.1	341.0	522.5	1037.2	1803.1	2043.3	2067.1
37.5°	276.4	262.2	253.0	248.4	316.3	501.4	1028.5	1909.0	2129.9	2187.2
40°	270.0	254.8	243.8	239.3	297.0	473.5	1025.8	1990.6	2229.8	2264.2
42.5°	262.6	253.0	240.6	232.4	273.6	445.5	994.1	2015.8	2260.5	2297.7
44°	260.3	245.7	232.8	230.1	264.5	431.3	987.7	2038.7	2287.1	2343.5
45°	258.0	244.3	229.6	226.0	261.3	423.5	979.0	2044.2	2331.1	2341.7
47.5°	251.6	242.9	228.7	218.6	254.4	406.5	952.9	2013.0	2286.2	2288.0
50°	246.6	236.5	221.8	202.1	245.2	392.3	964.8	2001.6	2178.0	2182.2
52.5°	241.1	226.0	217.7	183.8	230.1	380.4	990.0	2053.4	2190.4	2189.5
55°	234.7	218.2	198.0	168.2	204.9	365.3	1051.0	2155.6	2305.0	2320.6
57.5°	224.6	210.4	181.5	154.5	176.0	336.4	1031.3	1959.9	2120.8	2123.5
60°	211.3	198.0	164.5	143.9	144.4	265.4	922.2	1527.2	1673.4	1713.3
62.5°	198.5	191.1	150.3	128.8	122.8	211.3	779.6	1269.2	1436.4	1469.4
65°	183.3	165.5	138.0	117.3	105.4	148.0	552.3	948.3	1120.6	1165.1
67.5°	164.1	144.8	121.5	103.1	90.3	99.0	285.1	539.0	713.6	739.8
70°	143.5	125.6	102.2	87.1	72.9	68.3	125.6	257.1	390.0	417.1
72.5°	117.8	101.3	81.6	68.8	54.5	47.2	42.2	68.8	138.4	160.9
75°	85.3	73.8	61.4	49.0	38.5	30.3	24.8	20.6	22.9	24.8
77.5°	62.8	53.6	45.4	34.8	27.0	21.5	17.0	12.8	12.4	11.9
80°	49.0	43.5	36.2	28.0	21.1	16.0	11.9	8.7	7.8	7.8
82.5°	38.5	35.8	29.8	22.9	17.4	12.8	8.7	6.0	5.0	5.0
85°	14.7	14.7	21.5	18.8	13.3	9.2	6.0	3.2	2.8	2.8
87.5°	3.7	3.7	3.7	3.7	3.2	2.8	2.8	1.4	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)