

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: P526208

Luminaire Tested: **GALN-SA1A-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526208  
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-827-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 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: 2533 lumens  
Efficiency: N/A  
Efficacy: 76.8 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

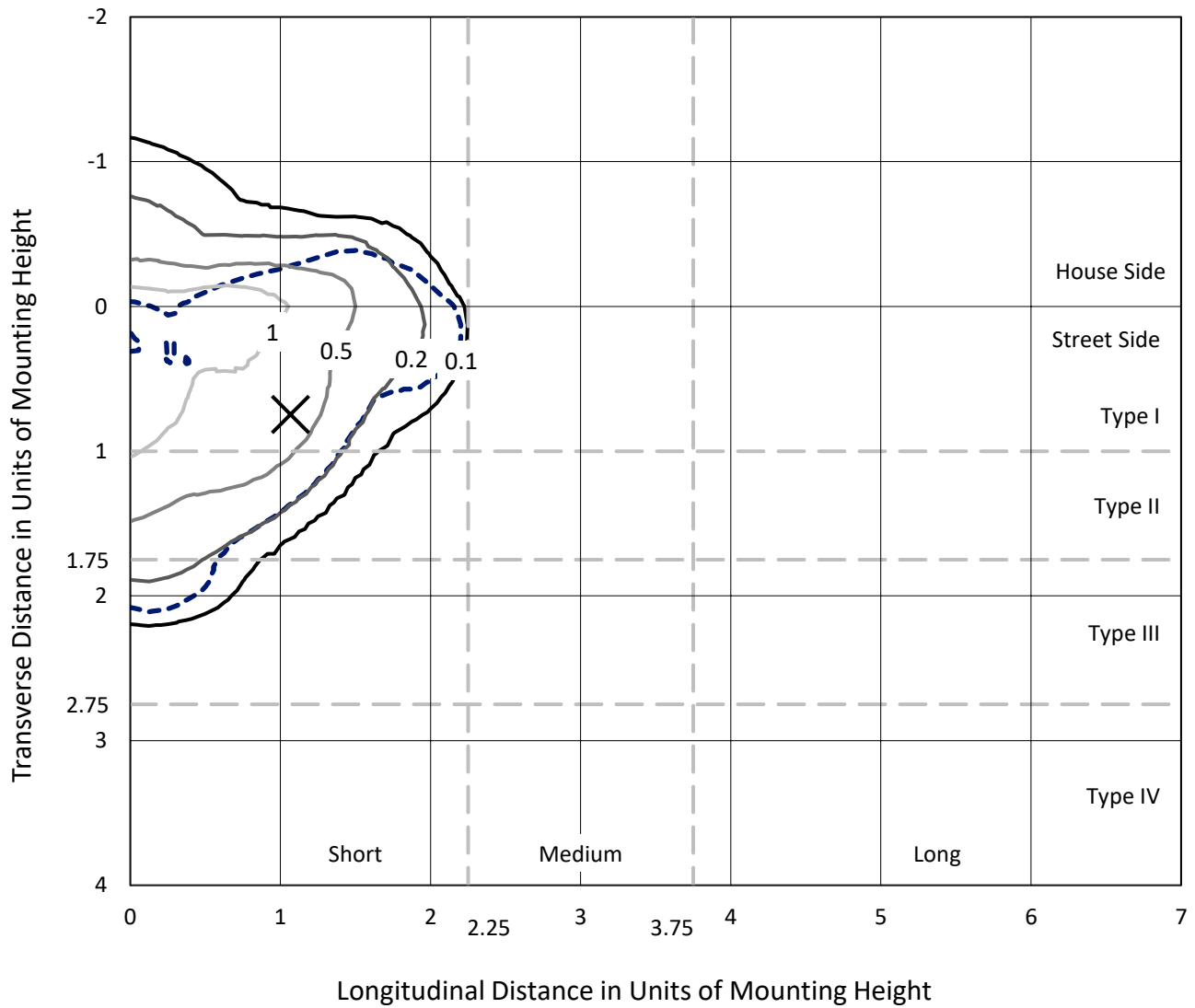
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

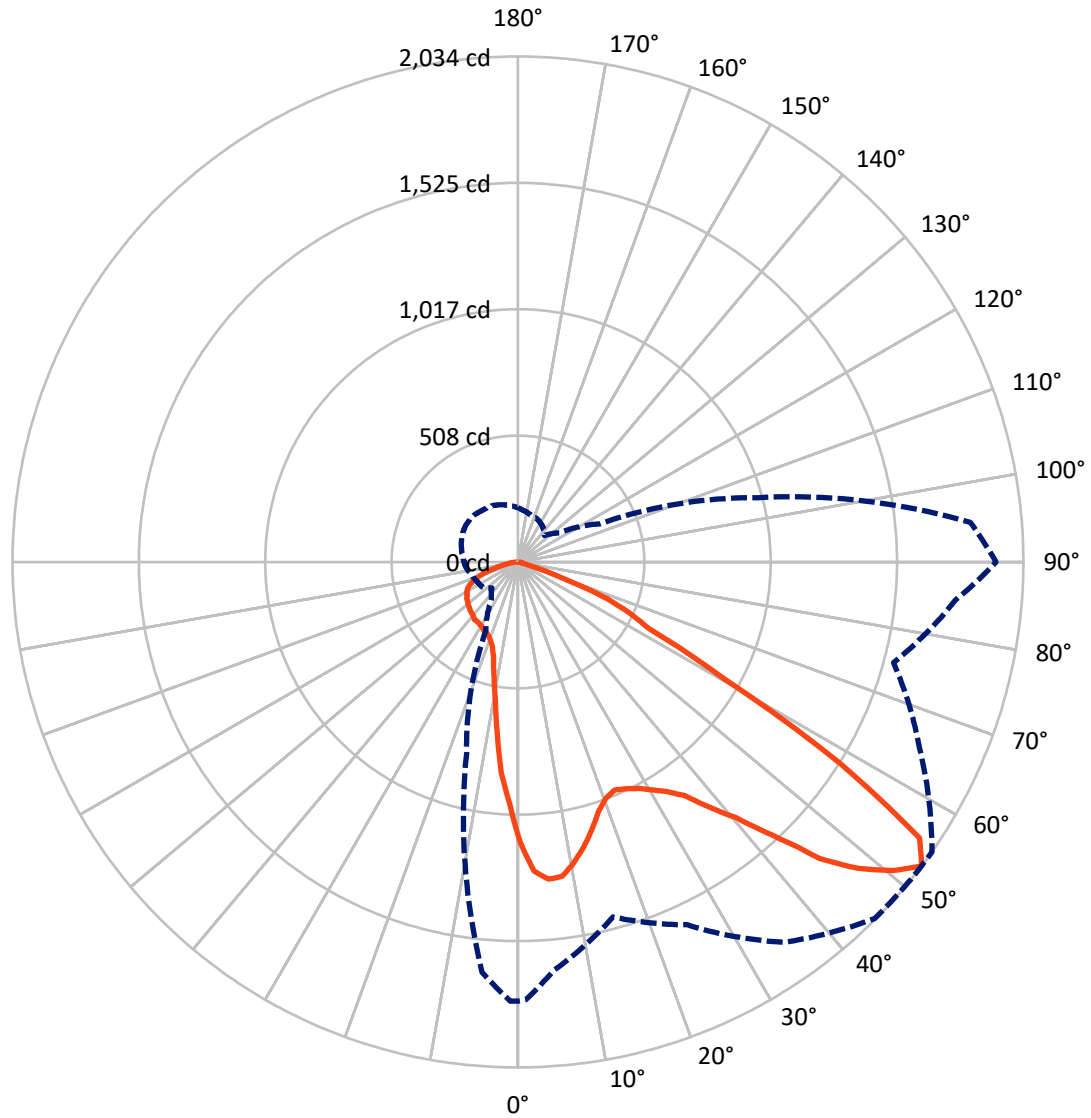
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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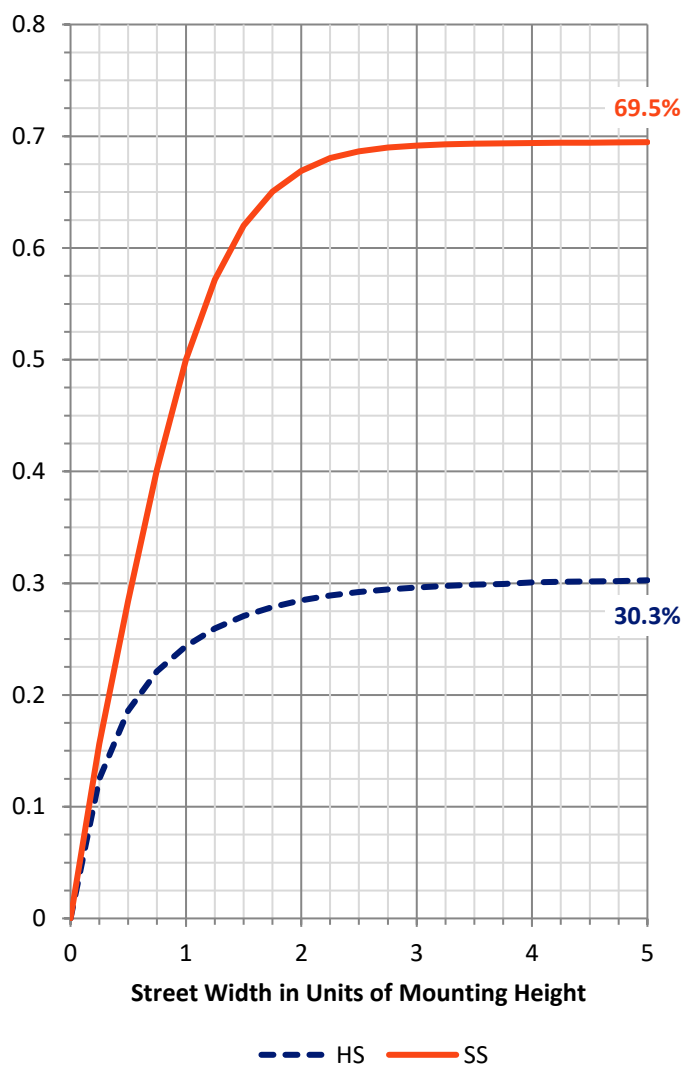
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	772.7	0.0	772.7
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	1760.3	0.0	1760.3
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	2533.0	0.0	2533.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.3	3.4
10°-20°	186.1	7.3
20°-30°	282.2	11.1
30°-40°	407.8	16.1
40°-50°	544.9	21.5
50°-60°	608.2	24.0
60°-70°	333.6	13.2
70°-80°	72.1	2.8
80°-90°	11.7	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°	2533.0	100.0
0°-180°	2533.0	100.0

**Coefficient of Utilization**



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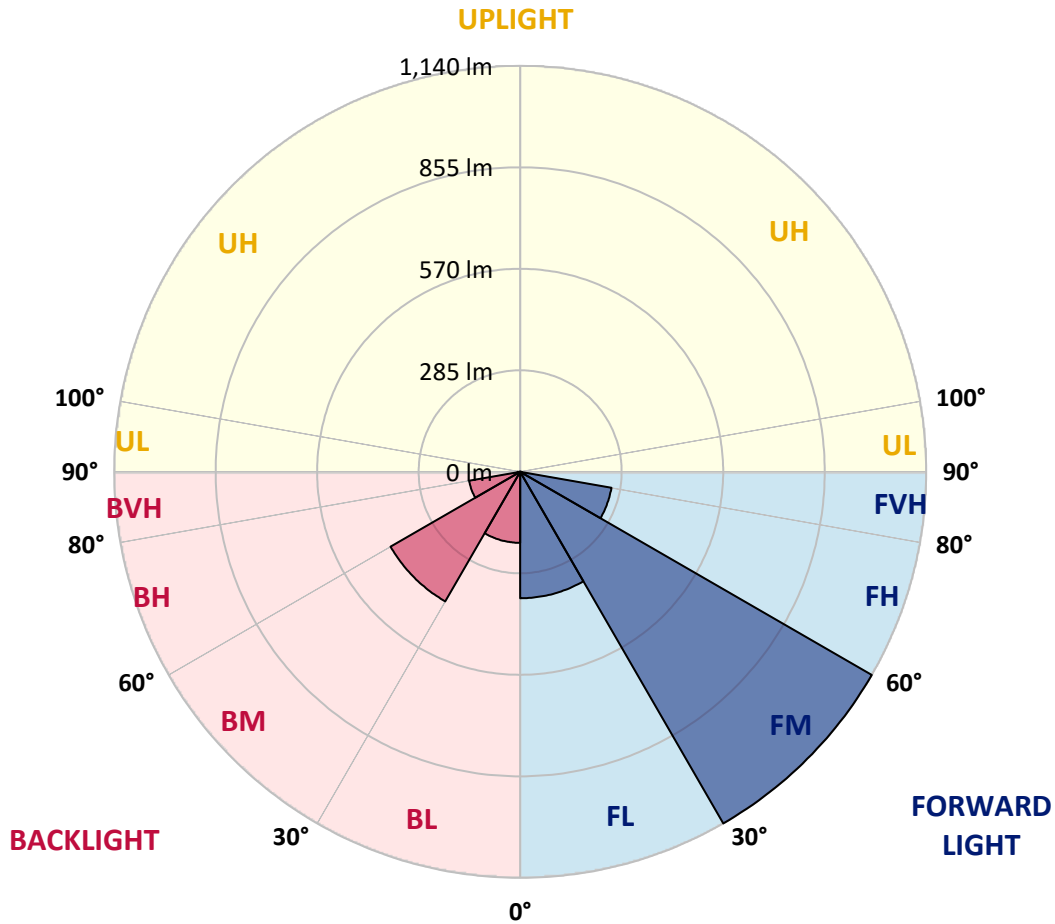
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.2	14.0			
FM (30°-60°)	1140.5	45.0			
FH (60°-80°)	260.3	10.3			G0/660
FVH (80°-90°)	4.3	0.2			G0/10
BL (0°-30°)	199.5	7.9	B1/500		
BM (30°-60°)	420.4	16.6	B1/1000		
BH (60°-80°)	145.4	5.7	B1/500		G1/500
BVH (80°-90°)	7.4	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°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1185.8	1179.1	1185.0	1213.1	1229.4	1240.5	1247.5	1246.4	1219.8	1193.9	1193.9
5°	1151.0	1142.5	1154.7	1218.3	1282.3	1287.8	1297.1	1281.9	1242.7	1195.4	1136.2
7.5°	1050.4	1056.7	1077.0	1160.6	1243.8	1285.6	1296.7	1277.5	1213.9	1125.5	1038.6
10°	963.5	978.3	1025.2	1115.5	1192.0	1246.4	1258.6	1231.6	1181.3	1073.0	995.3
12.5°	933.5	924.3	976.4	1066.7	1139.9	1169.1	1174.7	1176.5	1142.5	1046.3	951.6
15°	929.8	935.7	976.4	1044.8	1090.0	1091.4	1100.7	1115.1	1119.6	1064.4	972.0
17.5°	983.1	976.1	1017.8	1072.2	1050.8	1029.3	1031.5	1052.2	1088.9	1080.0	1036.0
20°	1061.9	1077.8	1110.7	1105.1	1047.4	993.1	993.4	1013.0	1085.2	1144.3	1125.1
22.5°	1192.8	1208.3	1232.7	1165.8	1047.4	982.3	969.8	996.4	1108.8	1220.9	1225.7
25°	1312.3	1340.7	1347.4	1268.6	1100.0	992.3	984.2	1010.5	1132.5	1295.6	1341.1
27.5°	1421.0	1431.3	1460.6	1334.8	1129.2	999.0	998.2	1031.9	1162.5	1333.0	1444.3
30°	1506.8	1505.7	1522.3	1376.6	1175.8	1036.3	1000.5	1064.1	1201.7	1394.7	1539.7
32.5°	1565.2	1577.8	1612.9	1434.7	1195.4	1071.8	1043.7	1101.8	1249.4	1424.0	1607.0
35°	1668.1	1689.9	1645.5	1466.9	1257.5	1107.0	1074.1	1153.2	1273.0	1455.8	1689.5
37.5°	1765.0	1748.3	1703.2	1484.2	1297.8	1172.1	1141.4	1252.7	1346.7	1524.9	1744.2
40°	1827.1	1826.7	1746.5	1498.3	1326.3	1271.6	1269.7	1353.7	1436.9	1568.6	1805.6
42.5°	1854.1	1880.0	1764.2	1496.8	1386.2	1392.1	1429.5	1504.6	1500.9	1577.4	1804.2
44°	1891.1	1906.6	1794.9	1500.1	1426.2	1473.5	1561.5	1609.2	1556.7	1572.6	1802.3
45°	1889.6	1890.7	1751.3	1504.6	1460.2	1541.6	1620.3	1701.0	1605.9	1562.3	1826.7
47.5°	1846.3	1833.8	1714.3	1471.7	1566.3	1721.3	1794.2	1843.0	1666.6	1540.1	1796.4
50°	1760.9	1746.5	1624.4	1457.6	1588.5	1833.0	1933.6	1951.4	1721.7	1518.3	1766.4
52.5°	1766.8	1762.7	1649.9	1478.7	1610.7	1868.1	2029.4	2033.8	1784.2	1564.1	1766.8
55°	1872.6	1858.5	1723.2	1504.9	1594.5	1827.1	1968.4	1960.6	1763.1	1536.4	1799.4
57.5°	1713.5	1722.8	1621.8	1401.0	1395.5	1485.3	1547.5	1528.3	1471.3	1386.6	1674.0
60°	1382.5	1408.8	1418.4	1171.7	1053.0	1006.8	988.3	954.2	963.8	1139.2	1470.6
62.5°	1185.8	1184.3	1244.6	1062.2	689.8	593.3	584.4	592.1	703.1	1121.4	1440.2
65°	940.2	965.3	983.8	900.2	545.9	440.5	440.1	489.3	608.4	937.2	1162.8
67.5°	596.9	629.9	652.8	575.9	365.0	313.6	305.1	364.3	421.6	614.7	700.1
70°	336.6	352.1	362.5	332.1	232.3	162.7	153.1	167.2	254.8	398.0	415.0
72.5°	129.8	136.8	150.9	152.0	87.7	52.5	42.5	51.0	107.3	157.6	150.2
75°	20.0	21.5	30.3	36.2	25.2	19.2	20.3	21.1	30.0	40.7	34.0
77.5°	9.6	9.6	9.2	10.7	12.6	13.7	14.8	16.3	17.8	19.6	18.9
80°	6.3	6.3	6.3	7.4	9.2	11.1	12.6	13.3	14.1	15.5	14.8
82.5°	4.1	4.1	4.1	5.5	7.4	9.2	10.0	11.8	13.3	15.5	14.4
85°	2.2	2.2	2.2	3.7	5.5	7.8	7.4	5.9	3.3	0.4	0.7
87.5°	0.7	0.7	0.7	0.7	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°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1162.8	1145.8	1144.3	1109.6	1078.5	1063.3	1051.1	1017.1	1024.5	1004.9	1004.5
5°	1106.6	1071.8	1015.6	969.4	923.2	913.9	873.6	838.5	839.6	814.4	818.9
7.5°	1005.6	981.6	913.2	840.7	779.3	735.6	697.6	674.6	645.4	635.4	630.2
10°	941.7	912.1	835.1	744.2	675.4	652.1	615.4	595.1	565.1	550.3	540.0
12.5°	913.5	870.3	774.1	681.6	635.8	611.7	580.7	543.7	508.2	494.5	475.6
15°	916.5	864.7	756.4	656.5	601.4	554.8	527.0	486.0	449.7	425.7	412.0
17.5°	961.3	898.4	764.5	637.3	558.1	499.7	445.3	400.9	372.1	354.0	349.5
20°	1067.0	981.6	778.2	606.2	514.8	442.0	375.0	328.8	306.6	306.2	306.6
22.5°	1155.1	1070.4	805.9	587.7	471.6	368.0	301.4	286.6	282.2	291.4	292.6
25°	1273.8	1170.2	853.6	578.1	431.6	313.6	272.6	267.0	266.7	278.5	278.9
27.5°	1395.5	1257.5	882.1	550.0	390.9	285.5	255.2	254.1	260.0	272.6	271.5
30°	1478.3	1330.7	933.5	516.3	342.9	260.7	248.2	249.7	257.8	267.4	268.9
32.5°	1574.9	1402.9	946.8	497.8	313.3	240.0	231.2	234.5	244.8	260.0	268.1
35°	1685.4	1453.9	967.2	472.7	302.2	224.1	219.7	223.4	236.0	246.0	254.8
37.5°	1767.2	1544.2	970.9	453.1	290.0	215.3	208.2	220.4	227.8	241.9	246.3
40°	1827.8	1609.6	980.5	440.9	280.4	203.8	203.8	211.9	221.9	234.9	243.7
42.5°	1866.7	1657.3	987.5	429.8	261.9	200.5	198.6	206.8	220.1	232.6	236.7
44°	1890.3	1677.7	980.5	419.4	256.7	196.4	196.4	203.4	213.8	228.6	233.4
45°	1896.3	1703.2	965.0	419.0	250.4	191.6	190.8	204.2	211.2	229.3	232.3
47.5°	1919.2	1734.6	966.8	407.2	235.2	180.1	193.1	199.0	205.3	221.2	231.2
50°	1918.4	1754.2	962.7	389.8	224.1	167.2	188.6	195.3	201.6	217.8	221.9
52.5°	1923.6	1827.5	1000.1	362.1	204.2	150.5	173.8	188.6	196.4	210.1	218.6
55°	1921.0	1869.3	1037.1	341.4	176.1	140.5	161.3	178.6	189.7	204.2	208.2
57.5°	1754.6	1652.2	959.8	302.5	145.7	128.7	143.5	168.3	182.3	197.1	202.3
60°	1433.6	1273.4	791.5	222.7	119.8	118.4	133.5	165.0	170.9	183.8	192.7
62.5°	1324.8	1117.0	627.6	170.1	102.5	108.4	123.2	149.1	158.3	174.2	182.3
65°	1036.7	741.9	388.7	115.0	90.2	97.3	111.3	130.6	145.7	160.5	170.1
67.5°	614.0	405.4	192.3	80.6	78.8	86.2	100.6	115.0	132.4	148.7	153.5
70°	334.4	199.4	82.1	61.4	66.9	73.6	87.7	97.6	114.3	126.9	135.0
72.5°	107.3	60.7	41.1	45.5	51.0	58.8	67.3	79.5	91.4	98.8	105.4
75°	25.9	25.5	29.2	31.8	37.0	42.9	49.9	56.2	65.5	72.5	78.4
77.5°	18.1	19.6	22.6	26.3	28.1	30.3	34.8	39.6	43.6	48.8	52.5
80°	14.1	15.2	17.4	19.2	21.1	22.9	25.2	27.0	29.6	32.9	34.8
82.5°	13.3	14.1	16.3	17.4	16.6	16.3	17.8	18.5	18.9	20.0	21.1
85°	1.1	0.0	0.7	2.6	6.3	9.2	10.0	10.0	9.6	10.4	10.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	1.1
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°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1000.1	987.5	992.3	998.2	989.7	970.1	975.3	973.1	993.1	991.6	1011.6
5°	838.5	818.9	821.1	849.9	840.7	850.7	830.7	828.1	831.8	833.7	837.0
7.5°	641.7	639.1	661.3	685.7	697.2	685.3	665.7	661.3	657.2	649.1	667.6
10°	523.7	524.5	523.0	541.5	554.4	551.8	540.0	538.5	530.7	527.8	538.1
12.5°	467.5	457.5	452.7	446.8	456.8	463.4	458.3	454.6	454.9	458.6	460.1
15°	413.1	406.8	396.5	389.8	394.6	391.3	389.5	396.9	395.0	394.3	403.1
17.5°	352.1	357.3	356.5	349.1	355.4	352.8	352.5	347.3	340.3	335.1	338.0
20°	311.8	321.4	328.8	329.2	332.5	332.1	326.6	310.7	305.5	304.4	305.1
22.5°	297.4	302.5	311.4	324.0	324.0	318.1	311.4	292.9	288.1	282.9	280.7
25°	285.9	295.9	307.4	308.8	314.7	309.2	298.5	289.2	279.2	272.2	272.2
27.5°	280.0	291.1	299.6	302.2	310.3	305.9	294.8	282.9	271.1	270.7	264.4
30°	277.4	287.7	293.3	299.6	303.3	296.3	292.9	280.4	268.5	265.6	255.2
32.5°	269.6	284.4	294.8	293.3	296.3	293.3	288.5	278.1	264.8	258.2	257.1
35°	260.7	275.5	286.6	294.4	296.3	290.0	287.0	273.0	254.8	251.5	240.0
37.5°	255.9	264.8	278.5	291.1	293.7	290.3	280.4	265.9	247.8	244.1	234.1
40°	250.0	261.5	272.2	282.6	290.3	282.2	270.7	256.7	248.5	237.4	234.5
42.5°	245.6	258.5	267.4	278.9	287.7	277.0	263.7	254.1	242.6	235.2	226.7
44°	244.1	255.9	261.9	275.9	283.3	275.2	264.1	254.1	240.8	234.1	226.7
45°	238.9	255.2	261.5	274.1	280.4	273.7	259.6	249.7	240.0	231.9	224.1
47.5°	233.7	244.8	255.6	265.6	270.0	267.8	255.9	243.7	232.3	227.5	220.1
50°	232.3	243.4	253.4	262.6	267.8	263.3	252.6	240.8	227.5	219.7	213.4
52.5°	224.9	238.6	249.7	252.6	259.3	256.7	248.5	235.6	223.0	216.4	211.2
55°	214.1	228.6	243.7	247.4	257.1	253.0	240.8	228.6	217.8	207.9	201.2
57.5°	210.1	224.1	238.9	243.7	249.7	243.0	240.0	227.1	210.1	204.9	194.5
60°	199.7	217.5	229.7	240.8	241.1	239.3	234.1	219.3	205.3	195.7	188.3
62.5°	191.6	208.2	217.8	228.2	234.5	229.3	224.1	210.4	195.3	184.6	176.1
65°	179.8	194.9	203.1	209.3	216.4	215.6	206.8	196.8	180.9	172.4	164.2
67.5°	161.6	174.9	186.0	192.0	196.4	195.3	188.6	181.6	165.3	156.8	150.9
70°	139.8	153.5	160.5	163.8	168.3	170.5	165.3	162.0	147.6	136.5	130.9
72.5°	112.4	121.3	131.7	134.6	136.5	138.0	138.0	135.0	120.2	115.8	106.1
75°	82.8	89.9	97.6	97.6	101.0	101.3	102.1	100.2	89.1	83.2	81.0
77.5°	56.2	61.4	67.7	70.3	72.5	72.1	71.8	66.6	60.7	58.1	55.8
80°	36.6	41.8	44.8	48.1	50.3	49.9	50.7	47.0	44.4	39.9	40.7
82.5°	21.8	25.9	28.8	32.9	32.9	34.0	34.0	32.9	30.3	28.1	28.1
85°	10.4	13.7	15.5	18.1	19.6	20.0	17.8	15.2	12.6	11.5	12.6
87.5°	1.8	2.6	3.7	3.3	4.1	3.7	3.7	3.7	3.7	3.0	3.3
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: P526208

CATALOG NUMBER: GALN-SA1A-827-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1004.2	1022.7	1035.6	1057.1	1094.0	1123.6	1154.0	1176.5	1179.1	1185.8
5°	849.2	859.2	892.1	935.0	965.3	1015.3	1047.4	1105.9	1127.7	1151.0
7.5°	663.2	679.4	723.4	752.3	818.9	881.4	946.1	1018.2	1047.1	1050.4
10°	559.2	582.9	612.9	659.1	695.3	764.9	845.5	925.8	957.9	963.5
12.5°	491.2	521.5	561.4	594.7	629.5	690.2	767.5	866.6	908.4	933.5
15°	425.7	457.1	501.2	547.4	578.1	650.6	741.6	853.3	907.6	929.8
17.5°	358.4	387.6	423.9	473.8	535.6	616.9	737.5	897.6	957.2	983.1
20°	300.7	317.0	359.1	410.5	487.8	582.5	739.0	963.1	1050.4	1061.9
22.5°	278.1	281.8	298.5	345.8	430.5	547.4	765.2	1055.9	1155.1	1192.8
25°	260.7	260.0	264.4	296.3	388.7	533.7	791.1	1141.4	1271.2	1312.3
27.5°	251.1	243.7	244.1	274.1	359.1	511.5	824.4	1239.4	1402.9	1421.0
30°	246.3	244.8	240.4	252.6	327.0	478.2	830.0	1335.9	1480.5	1506.8
32.5°	243.4	228.9	223.4	227.8	296.6	442.0	850.7	1399.5	1576.7	1565.2
35°	228.6	215.6	211.9	216.4	275.2	421.6	837.0	1455.0	1648.8	1668.1
37.5°	223.0	211.6	204.2	200.5	255.2	404.6	830.0	1540.5	1718.7	1765.0
40°	217.8	205.6	196.8	193.1	239.7	382.1	827.7	1606.3	1799.4	1827.1
42.5°	211.9	204.2	194.2	187.5	220.8	359.5	802.2	1626.6	1824.1	1854.1
44°	210.1	198.2	187.9	185.7	213.4	348.0	797.0	1645.1	1845.6	1891.1
45°	208.2	197.1	185.3	182.3	210.8	341.7	790.0	1649.6	1881.1	1889.6
47.5°	203.1	196.0	184.6	176.4	205.3	328.1	768.9	1624.4	1844.8	1846.3
50°	199.0	190.8	179.0	163.1	197.9	316.6	778.5	1615.2	1757.6	1760.9
52.5°	194.5	182.3	175.7	148.3	185.7	307.0	798.9	1657.0	1767.5	1766.8
55°	189.4	176.1	159.8	135.7	165.3	294.8	848.1	1739.4	1860.0	1872.6
57.5°	181.2	169.8	146.5	124.6	142.0	271.5	832.2	1581.5	1711.3	1713.5
60°	170.5	159.8	132.8	116.1	116.5	214.1	744.2	1232.4	1350.3	1382.5
62.5°	160.1	154.2	121.3	103.9	99.1	170.5	629.1	1024.1	1159.1	1185.8
65°	147.9	133.5	111.3	94.7	85.1	119.5	445.7	765.2	904.3	940.2
67.5°	132.4	116.9	98.0	83.2	72.9	79.9	230.1	435.0	575.9	596.9
70°	115.8	101.3	82.5	70.3	58.8	55.1	101.3	207.5	314.7	336.6
72.5°	95.1	81.7	65.8	55.5	44.0	38.1	34.0	55.5	111.7	129.8
75°	68.8	59.5	49.6	39.6	31.1	24.4	20.0	16.6	18.5	20.0
77.5°	50.7	43.3	36.6	28.1	21.8	17.4	13.7	10.4	10.0	9.6
80°	39.6	35.1	29.2	22.6	17.0	12.9	9.6	7.0	6.3	6.3
82.5°	31.1	28.8	24.0	18.5	14.1	10.4	7.0	4.8	4.1	4.1
85°	11.8	11.8	17.4	15.2	10.7	7.4	4.8	2.6	2.2	2.2
87.5°	3.0	3.0	3.0	3.0	2.6	2.2	2.2	1.1	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)