

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: P651680

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651680  
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-840-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 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: 2898.9 lumens  
Efficiency: N/A  
Efficacy: 87.8 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

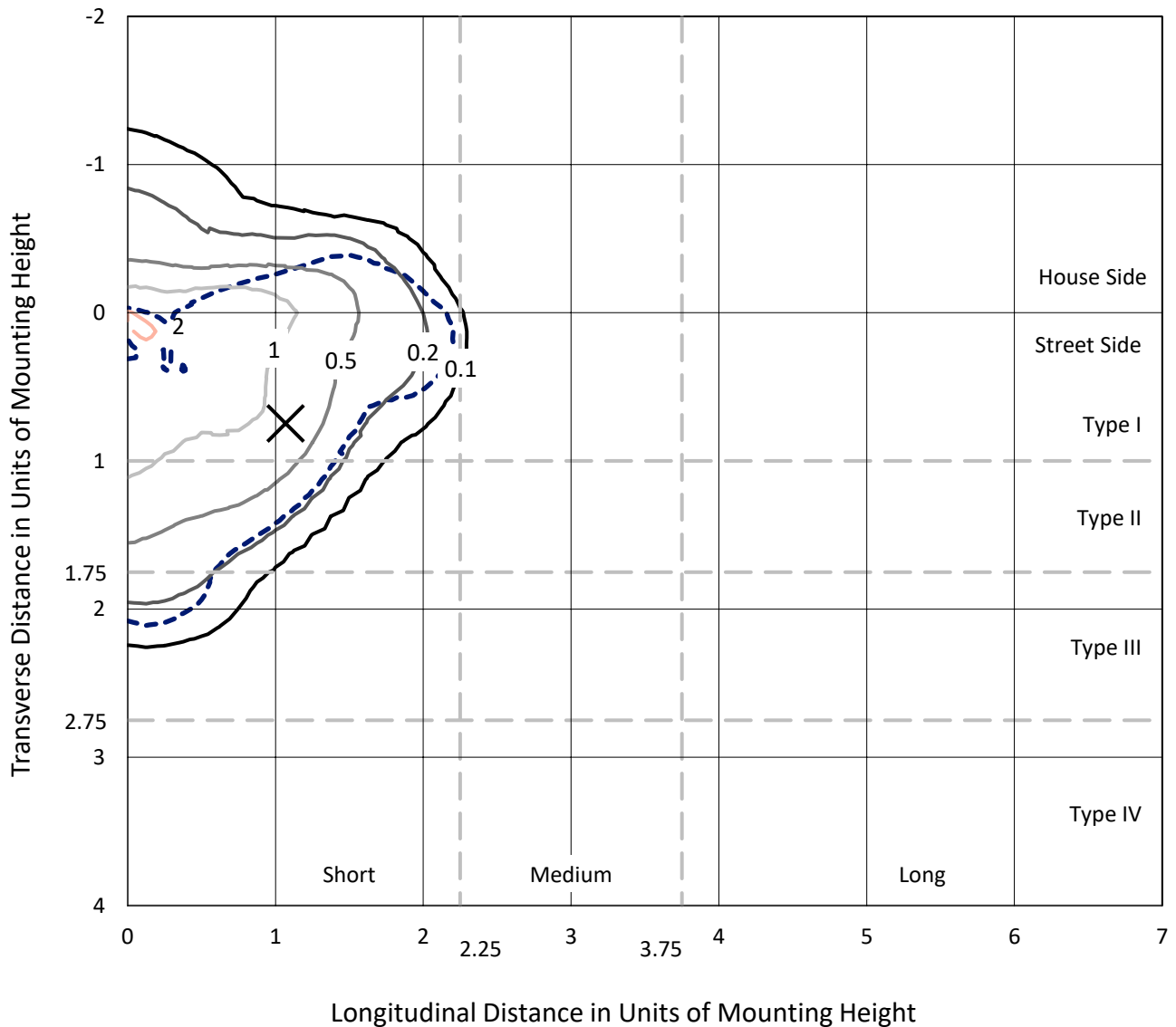
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

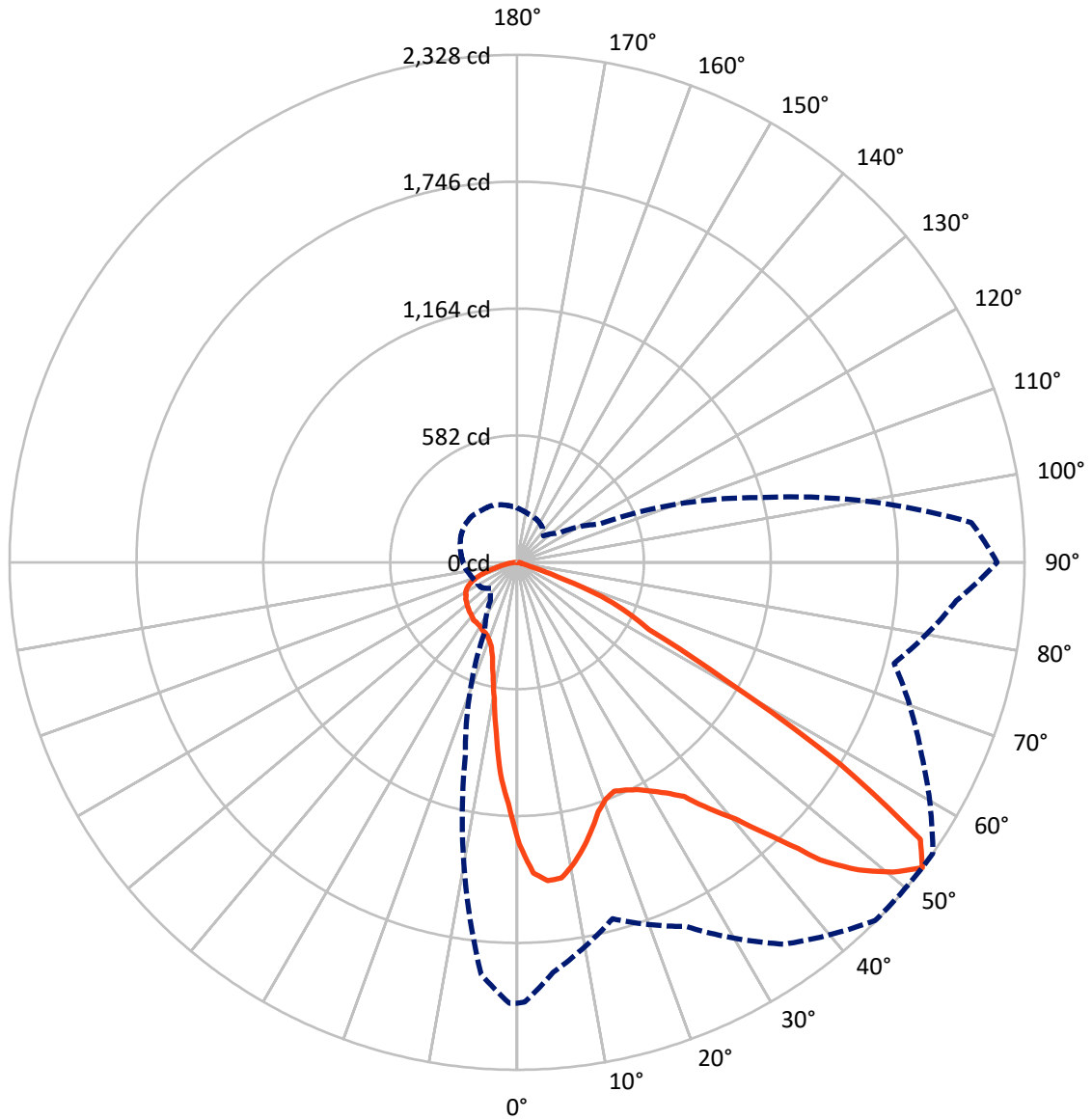
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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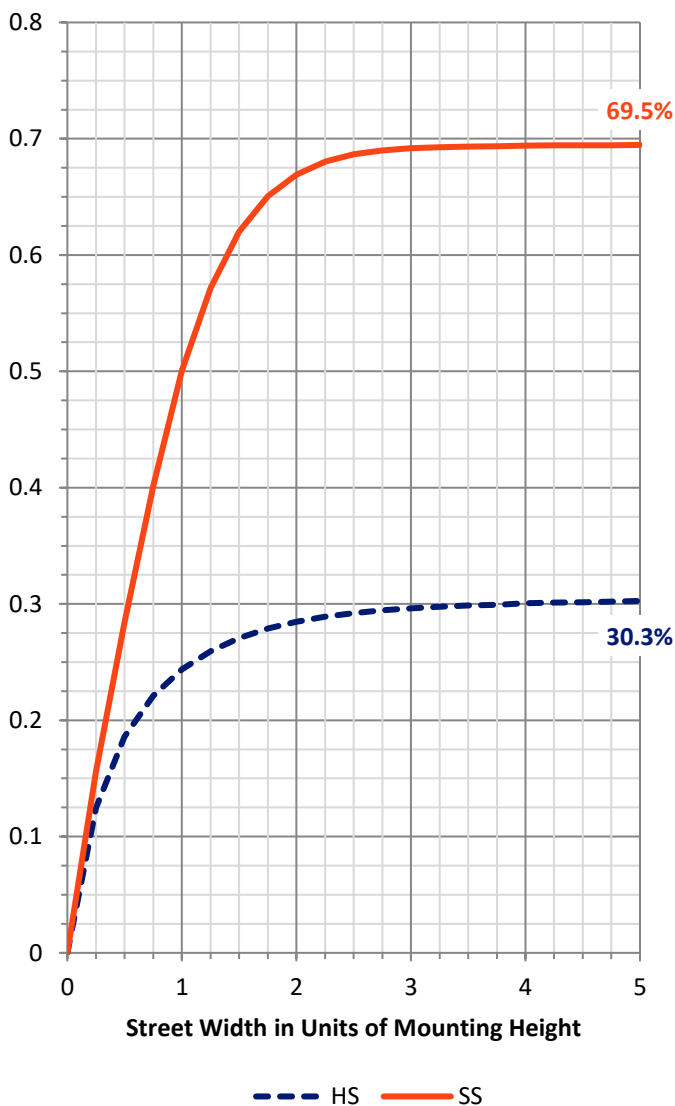
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	884.3	0.0	884.3
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	2014.6	0.0	2014.6
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	2898.9	0.0	2898.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.8	3.4
10°-20°	213.0	7.3
20°-30°	323.0	11.1
30°-40°	466.7	16.1
40°-50°	623.6	21.5
50°-60°	696.1	24.0
60°-70°	381.8	13.2
70°-80°	82.6	2.8
80°-90°	13.4	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°	2898.9	100.0
0°-180°	2898.9	100.0

**Coefficient of Utilization**

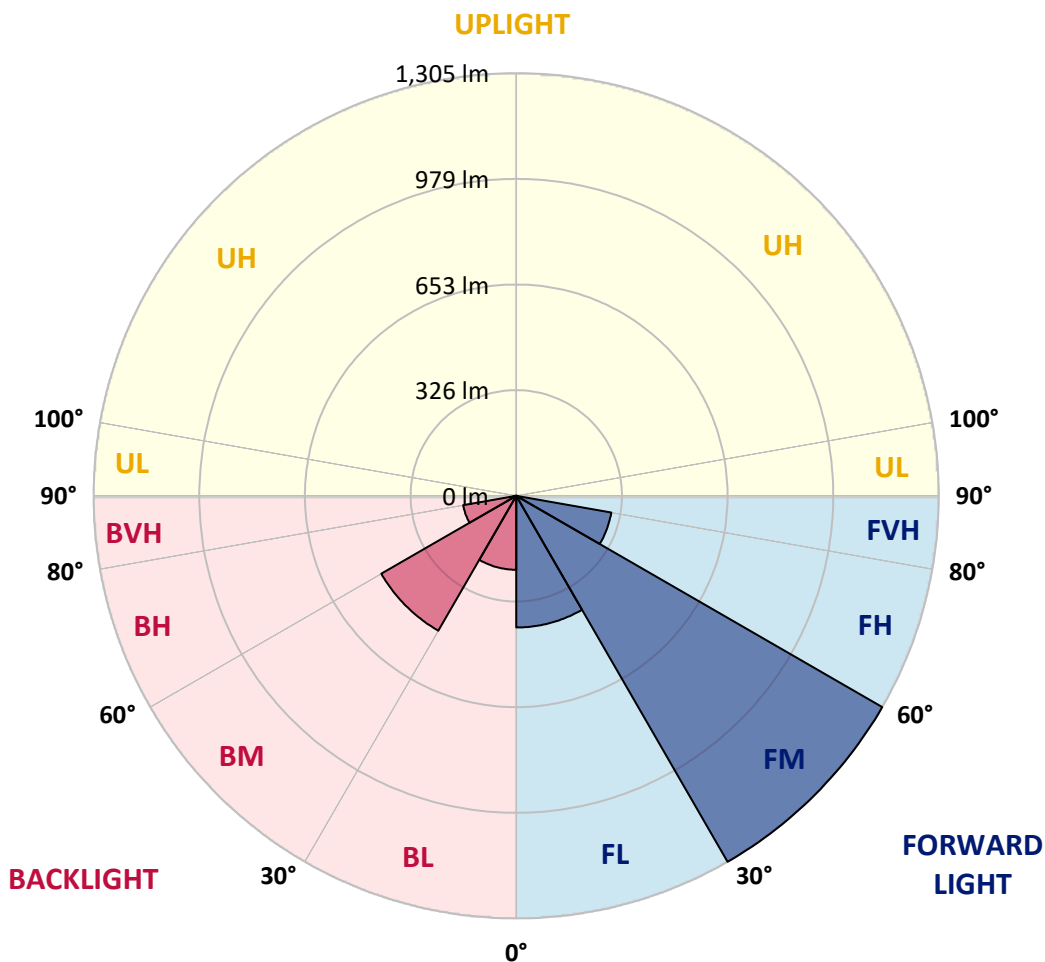


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.5	14.0			
FM (30°-60°)	1305.2	45.0			
FH (60°-80°)	297.9	10.3			G0/660
FVH (80°-90°)	4.9	0.2			G0/10
BL (0°-30°)	228.3	7.9	B1/500		
BM (30°-60°)	481.1	16.6	B1/1000		
BH (60°-80°)	166.4	5.7	B1/500		G1/500
BVH (80°-90°)	8.4	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°	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1
2.5°	1357.0	1349.5	1356.2	1388.4	1407.0	1419.7	1427.8	1426.5	1396.0	1366.4	1366.4
5°	1317.3	1307.5	1321.5	1394.3	1467.5	1473.9	1484.4	1467.1	1422.2	1368.1	1300.4
7.5°	1202.1	1209.4	1232.7	1328.3	1423.5	1471.3	1484.0	1462.1	1389.2	1288.1	1188.6
10°	1102.6	1119.6	1173.4	1276.6	1364.3	1426.5	1440.5	1409.5	1352.0	1227.9	1139.1
12.5°	1068.4	1057.8	1117.5	1220.8	1304.6	1338.0	1344.3	1346.4	1307.5	1197.5	1089.1
15°	1064.1	1070.9	1117.5	1195.8	1247.5	1249.1	1259.7	1276.2	1281.3	1218.2	1112.4
17.5°	1125.1	1117.0	1164.9	1227.1	1202.5	1178.0	1180.5	1204.2	1246.2	1236.0	1185.6
20°	1215.2	1233.5	1271.2	1264.8	1198.8	1136.5	1136.9	1159.4	1241.9	1309.7	1287.7
22.5°	1365.1	1382.9	1410.9	1334.2	1198.8	1124.2	1109.9	1140.3	1269.0	1397.2	1402.8
25°	1501.9	1534.4	1542.1	1451.9	1258.9	1135.7	1126.4	1156.5	1296.1	1482.8	1534.8
27.5°	1626.2	1638.1	1671.6	1527.7	1292.3	1143.3	1142.4	1181.0	1330.4	1525.5	1652.9
30°	1724.5	1723.2	1742.2	1575.4	1345.6	1186.1	1145.0	1217.8	1375.3	1596.2	1762.1
32.5°	1791.3	1805.7	1846.0	1642.0	1368.1	1226.7	1194.6	1261.0	1429.9	1629.7	1839.2
35°	1909.1	1934.0	1883.3	1678.7	1439.2	1266.9	1229.2	1319.8	1456.9	1666.0	1933.5
37.5°	2019.9	2000.9	1949.3	1698.7	1485.3	1341.4	1306.2	1433.7	1541.2	1745.2	1996.2
40°	2091.1	2090.6	1998.8	1714.7	1517.9	1455.3	1453.2	1549.2	1644.5	1795.2	2066.5
42.5°	2121.9	2151.6	2019.1	1713.0	1586.5	1593.3	1636.0	1721.9	1717.7	1805.3	2064.8
44°	2164.3	2182.1	2054.2	1716.8	1632.2	1686.4	1787.1	1841.7	1781.7	1799.8	2062.7
45°	2162.5	2163.8	2004.3	1721.9	1671.2	1764.2	1854.4	1946.7	1837.9	1788.0	2090.6
47.5°	2113.1	2098.6	1962.0	1684.3	1792.6	1970.0	2053.4	2109.2	1907.3	1762.6	2055.9
50°	2015.3	1998.8	1859.1	1668.2	1818.0	2097.8	2212.9	2233.3	1970.4	1737.6	2021.6
52.5°	2022.0	2017.4	1888.3	1692.3	1843.4	2138.0	2322.6	2327.6	2041.9	1790.1	2022.0
55°	2143.1	2127.1	1972.1	1722.4	1824.8	2091.1	2252.7	2243.9	2017.8	1758.4	2059.3
57.5°	1961.1	1971.6	1856.1	1603.5	1597.1	1699.9	1771.1	1749.0	1683.9	1586.9	1915.8
60°	1582.3	1612.3	1623.3	1341.0	1205.1	1152.2	1131.1	1092.1	1103.1	1303.7	1683.0
62.5°	1357.0	1355.4	1424.4	1215.7	789.4	678.9	668.8	677.7	804.7	1283.5	1648.3
65°	1076.0	1104.8	1125.9	1030.3	624.8	504.1	503.7	560.0	696.3	1072.6	1330.8
67.5°	683.2	720.8	747.1	659.1	417.8	358.9	349.2	417.0	482.6	703.5	801.3
70°	385.2	403.0	414.8	380.1	265.8	186.3	175.3	191.3	291.7	455.5	474.9
72.5°	148.6	156.6	172.7	174.0	100.3	60.1	48.7	58.4	122.8	180.3	171.8
75°	22.9	24.6	34.7	41.5	28.8	22.0	23.3	24.1	34.3	46.6	38.9
77.5°	11.0	11.0	10.6	12.3	14.4	15.6	16.9	18.6	20.4	22.5	21.6
80°	7.2	7.2	7.2	8.5	10.6	12.7	14.4	15.2	16.1	17.7	16.9
82.5°	4.6	4.6	4.6	6.3	8.5	10.6	11.4	13.5	15.2	17.7	16.5
85°	2.5	2.5	2.5	4.2	6.3	8.9	8.5	6.8	3.8	0.4	0.8
87.5°	0.8	0.8	0.8	0.8	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°	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1
2.5°	1330.8	1311.4	1309.7	1269.8	1234.3	1216.9	1203.0	1164.0	1172.5	1150.1	1149.6
5°	1266.5	1226.7	1162.3	1109.4	1056.5	1046.0	999.8	959.6	960.8	932.1	937.1
7.5°	1150.9	1123.4	1045.1	962.1	891.9	841.9	798.4	772.0	738.7	727.2	721.2
10°	1077.7	1043.8	955.8	851.7	773.0	746.2	704.3	681.0	646.8	629.8	618.0
12.5°	1045.5	996.0	885.9	780.1	727.6	700.1	664.6	622.3	581.6	565.9	544.4
15°	1048.9	989.7	865.6	751.3	688.3	635.0	603.2	556.2	514.7	487.2	471.5
17.5°	1100.1	1028.2	875.0	729.3	638.7	571.9	509.6	458.8	425.8	405.1	400.0
20°	1221.2	1123.4	890.6	693.7	589.2	505.9	429.2	376.3	350.9	350.4	350.9
22.5°	1322.0	1225.0	922.3	672.6	539.7	421.2	345.0	328.1	322.9	333.5	334.8
25°	1457.8	1339.3	977.0	661.6	494.0	358.9	311.9	305.6	305.2	318.7	319.2
27.5°	1597.1	1439.2	1009.5	629.4	447.4	326.8	292.1	290.8	297.5	311.9	310.7
30°	1691.9	1523.0	1068.4	590.9	392.4	298.4	284.0	285.7	295.0	306.0	307.7
32.5°	1802.3	1605.6	1083.6	569.8	358.5	274.8	264.6	268.4	280.2	297.5	306.9
35°	1928.9	1663.9	1106.9	540.9	345.8	256.5	251.5	255.7	270.0	281.5	291.7
37.5°	2022.4	1767.2	1111.1	518.6	331.9	246.3	238.3	252.3	260.7	276.9	281.9
40°	2091.9	1842.1	1122.1	504.6	320.8	233.2	233.2	242.5	254.0	268.8	279.0
42.5°	2136.3	1896.8	1130.2	491.9	299.6	229.4	227.3	236.7	251.9	266.3	270.9
44°	2163.4	1920.0	1122.1	480.0	293.8	224.8	224.8	232.8	244.6	261.6	267.1
45°	2170.2	1949.3	1104.3	479.6	286.5	219.2	218.4	233.6	241.7	262.5	265.8
47.5°	2196.4	1985.2	1106.5	466.1	269.2	206.1	220.9	227.7	234.9	253.1	264.6
50°	2195.6	2007.6	1101.8	446.2	256.5	191.3	215.9	223.5	230.7	249.4	254.0
52.5°	2201.5	2091.5	1144.6	414.4	233.6	172.2	199.0	215.9	224.8	240.4	250.2
55°	2198.5	2139.3	1186.9	390.7	201.5	160.9	184.5	204.4	217.1	233.6	238.3
57.5°	2008.1	1890.8	1098.4	346.2	166.8	147.3	164.2	192.6	208.7	225.6	231.5
60°	1640.7	1457.4	905.8	254.8	137.2	135.5	152.8	188.8	195.5	210.3	220.5
62.5°	1516.2	1278.3	718.3	194.7	117.2	124.0	141.0	170.6	181.2	199.4	208.7
65°	1186.5	849.2	444.9	131.6	103.3	111.3	127.4	149.4	166.8	183.7	194.7
67.5°	702.7	463.9	220.1	92.3	90.2	98.6	115.1	131.6	151.5	170.1	175.7
70°	382.7	228.2	93.9	70.3	76.6	84.3	100.3	111.8	130.8	145.2	154.5
72.5°	122.8	69.4	47.0	52.1	58.4	67.3	77.0	91.0	104.5	113.0	120.6
75°	29.6	29.2	33.5	36.4	42.3	49.1	57.1	64.3	74.9	82.9	89.7
77.5°	20.8	22.5	25.8	30.0	32.2	34.7	39.8	45.3	50.0	55.8	60.1
80°	16.1	17.3	19.9	22.0	24.1	26.2	28.8	30.9	33.9	37.7	39.8
82.5°	15.2	16.1	18.6	19.9	19.0	18.6	20.4	21.2	21.6	22.9	24.1
85°	1.3	0.0	0.8	2.9	7.2	10.6	11.4	11.4	11.0	11.9	11.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	1.3
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°	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1
2.5°	1144.6	1130.2	1135.7	1142.4	1132.7	1110.3	1116.2	1113.7	1136.5	1134.8	1157.7
5°	959.6	937.1	939.7	972.7	962.1	973.5	950.7	947.7	952.0	954.1	957.9
7.5°	734.4	731.4	756.8	784.7	797.9	784.3	761.9	756.8	752.2	742.9	764.0
10°	599.4	600.2	598.5	619.7	634.5	631.5	618.0	616.3	607.5	604.0	615.9
12.5°	535.0	523.6	518.1	511.3	522.8	530.4	524.4	520.2	520.7	524.9	526.6
15°	472.8	465.6	453.8	446.2	451.6	447.8	445.7	454.2	452.0	451.2	461.4
17.5°	403.0	408.9	408.1	399.6	406.8	403.8	403.4	397.5	389.5	383.5	386.9
20°	356.8	367.9	376.3	376.8	380.6	380.1	373.7	355.6	349.6	348.3	349.2
22.5°	340.4	346.2	356.4	370.8	370.8	364.1	356.4	335.2	329.8	323.8	321.3
25°	327.2	338.7	351.8	353.5	360.2	353.9	341.6	331.0	319.6	311.5	311.5
27.5°	320.4	333.1	342.9	345.8	355.2	350.0	337.3	323.8	310.2	309.8	302.7
30°	317.5	329.3	335.6	342.9	347.1	339.1	335.2	320.8	307.3	303.9	292.1
32.5°	308.6	325.5	337.3	335.6	339.1	335.6	330.2	318.3	303.1	295.4	294.2
35°	298.4	315.4	328.1	336.9	339.1	331.9	328.5	312.3	291.7	287.9	274.8
37.5°	292.9	303.1	318.7	333.1	336.1	332.3	320.8	304.4	283.6	279.4	267.9
40°	286.1	299.2	311.5	323.4	332.3	322.9	309.8	293.8	284.4	271.7	268.4
42.5°	281.1	295.9	306.0	319.2	329.3	317.1	301.8	290.8	277.7	269.2	259.4
44°	279.4	292.9	299.6	315.8	324.2	315.0	302.3	290.8	275.6	267.9	259.4
45°	273.4	292.1	299.2	313.7	320.8	313.3	297.1	285.7	274.8	265.4	256.5
47.5°	267.5	280.2	292.5	303.9	309.0	306.5	292.9	279.0	265.8	260.3	251.9
50°	265.8	278.5	290.0	300.6	306.5	301.4	289.1	275.6	260.3	251.5	244.2
52.5°	257.3	273.0	285.7	289.1	296.7	293.8	284.4	269.6	255.2	247.6	241.7
55°	245.1	261.6	279.0	283.2	294.2	289.6	275.6	261.6	249.4	237.9	230.3
57.5°	240.4	256.5	273.4	279.0	285.7	278.1	274.8	259.9	240.4	234.5	222.6
60°	228.6	248.9	262.9	275.6	276.0	273.8	267.9	251.0	234.9	224.0	215.5
62.5°	219.2	238.3	249.4	261.1	268.4	262.5	256.5	240.9	223.5	211.3	201.5
65°	205.7	223.0	232.4	239.6	247.6	246.7	236.7	225.2	207.0	197.2	188.0
67.5°	184.9	200.2	212.9	219.7	224.8	223.5	215.9	207.8	189.2	179.5	172.7
70°	160.0	175.7	183.7	187.5	192.6	195.1	189.2	185.4	168.9	156.2	149.9
72.5°	128.7	138.8	150.7	154.1	156.2	157.9	157.9	154.5	137.6	132.5	121.5
75°	94.8	102.9	111.8	111.8	115.6	116.0	116.8	114.7	102.0	95.2	92.7
77.5°	64.3	70.3	77.5	80.4	82.9	82.5	82.1	76.2	69.4	66.4	63.9
80°	41.9	47.9	51.2	55.0	57.6	57.1	58.0	53.7	50.8	45.8	46.6
82.5°	25.0	29.6	33.1	37.7	37.7	38.9	38.9	37.7	34.7	32.2	32.2
85°	11.9	15.6	17.7	20.8	22.5	22.9	20.4	17.3	14.4	13.1	14.4
87.5°	2.1	2.9	4.2	3.8	4.6	4.2	4.2	4.2	4.2	3.4	3.8
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: P651680

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1	1293.1
2.5°	1149.2	1170.4	1185.2	1209.8	1252.1	1286.0	1320.6	1346.4	1349.5	1357.0
5°	971.9	983.3	1021.0	1070.1	1104.8	1161.9	1198.8	1265.6	1290.6	1317.3
7.5°	758.9	777.6	828.0	860.9	937.1	1008.7	1082.8	1165.3	1198.3	1202.1
10°	640.0	667.1	701.4	754.3	795.8	875.4	967.7	1059.5	1096.3	1102.6
12.5°	562.1	596.9	642.5	680.6	720.4	789.9	878.3	991.8	1039.6	1068.4
15°	487.2	523.2	573.6	626.5	661.6	744.5	848.7	976.5	1038.7	1064.1
17.5°	410.2	443.6	485.1	542.2	612.9	706.0	844.0	1027.3	1095.5	1125.1
20°	344.1	362.7	411.0	469.9	558.3	666.7	845.7	1102.2	1202.1	1215.2
22.5°	318.3	322.5	341.6	395.8	492.7	626.5	875.8	1208.5	1322.0	1365.1
25°	298.4	297.5	302.7	339.1	444.9	610.8	905.4	1306.2	1454.8	1501.9
27.5°	287.5	279.0	279.4	313.7	411.0	585.4	943.5	1418.4	1605.6	1626.2
30°	281.9	280.2	275.2	289.1	374.2	547.3	949.8	1528.9	1694.4	1724.5
32.5°	278.5	262.1	255.7	260.7	339.5	505.9	973.5	1601.7	1804.4	1791.3
35°	261.6	246.7	242.5	247.6	315.0	482.6	957.9	1665.2	1887.0	1909.1
37.5°	255.2	242.1	233.6	229.4	292.1	463.1	949.8	1763.0	1967.0	2019.9
40°	249.4	235.3	225.2	220.9	274.3	437.2	947.3	1838.3	2059.3	2091.1
42.5°	242.5	233.6	222.2	214.6	252.7	411.4	918.1	1861.6	2087.7	2121.9
44°	240.4	226.9	215.0	212.5	244.2	398.3	912.1	1882.7	2112.2	2164.3
45°	238.3	225.6	212.1	208.7	241.3	391.1	904.2	1887.9	2152.9	2162.5
47.5°	232.4	224.4	211.3	201.9	234.9	375.4	880.0	1859.1	2111.3	2113.1
50°	227.7	218.4	204.9	186.7	226.5	362.3	891.0	1848.5	2011.5	2015.3
52.5°	222.6	208.7	201.1	169.7	212.5	351.4	914.3	1896.4	2022.9	2022.0
55°	216.7	201.5	182.8	155.3	189.2	337.3	970.6	1990.7	2128.7	2143.1
57.5°	207.4	194.3	167.6	142.6	162.6	310.7	952.4	1810.0	1958.5	1961.1
60°	195.1	182.8	152.0	132.9	133.3	245.1	851.7	1410.4	1545.4	1582.3
62.5°	183.3	176.5	138.8	118.9	113.5	195.1	720.0	1172.1	1326.6	1357.0
65°	169.3	152.8	127.4	108.3	97.4	136.7	510.1	875.8	1034.9	1076.0
67.5°	151.5	133.7	112.2	95.2	83.4	91.4	263.3	497.8	659.1	683.2
70°	132.5	116.0	94.4	80.4	67.3	63.1	116.0	237.5	360.2	385.2
72.5°	108.8	93.5	75.4	63.5	50.4	43.6	38.9	63.5	127.8	148.6
75°	78.7	68.1	56.7	45.3	35.6	27.9	22.9	19.0	21.2	22.9
77.5°	58.0	49.5	41.9	32.2	25.0	19.9	15.6	11.9	11.4	11.0
80°	45.3	40.2	33.5	25.8	19.5	14.8	11.0	8.1	7.2	7.2
82.5°	35.6	33.1	27.5	21.2	16.1	11.9	8.1	5.5	4.6	4.6
85°	13.5	13.5	19.9	17.3	12.3	8.5	5.5	2.9	2.5	2.5
87.5°	3.4	3.4	3.4	3.4	2.9	2.5	2.5	1.3	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)