

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: P651686

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
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-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT 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 IV - 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

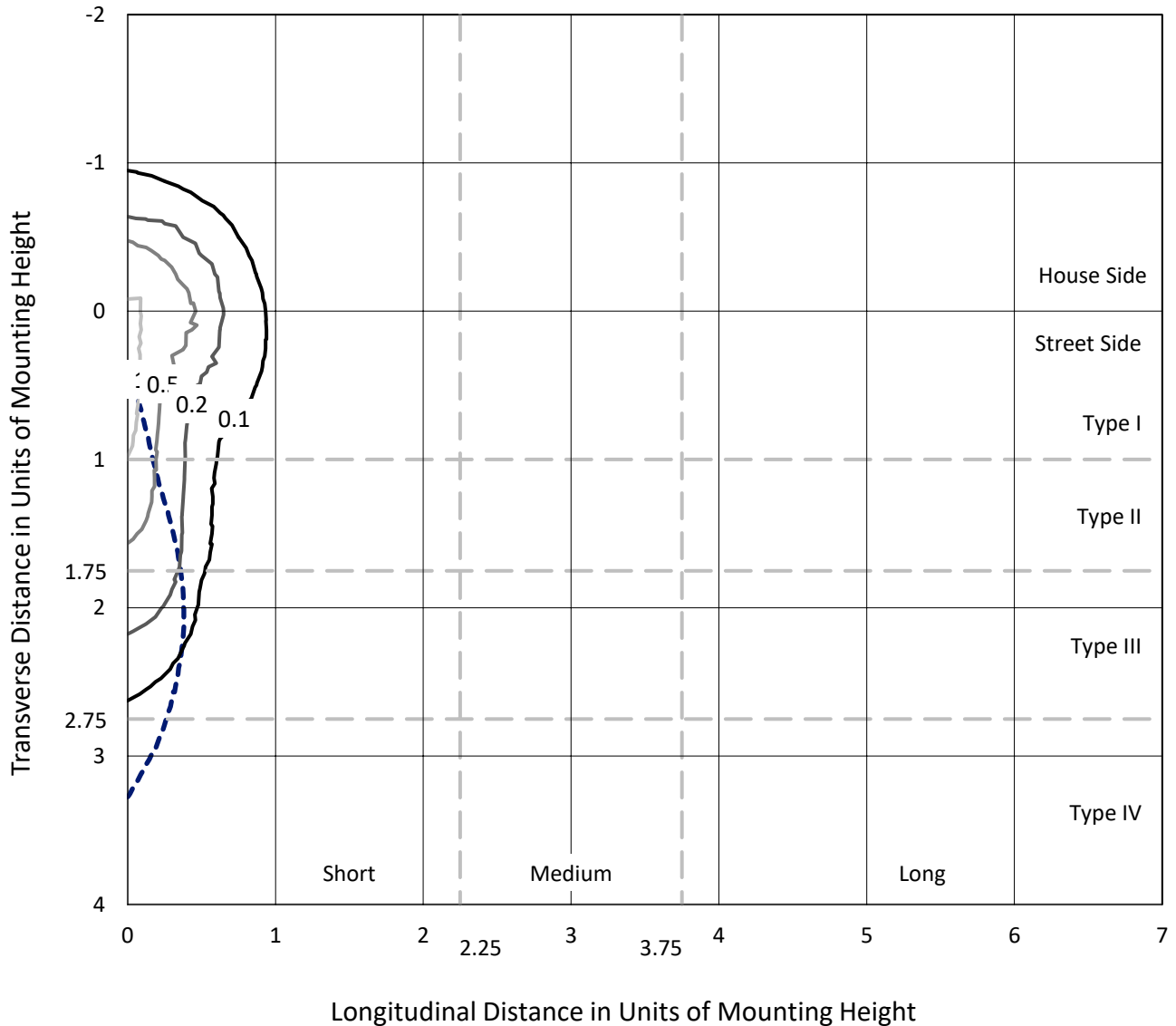




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### Iso-Footcandle Lines of Horizontal Illumination

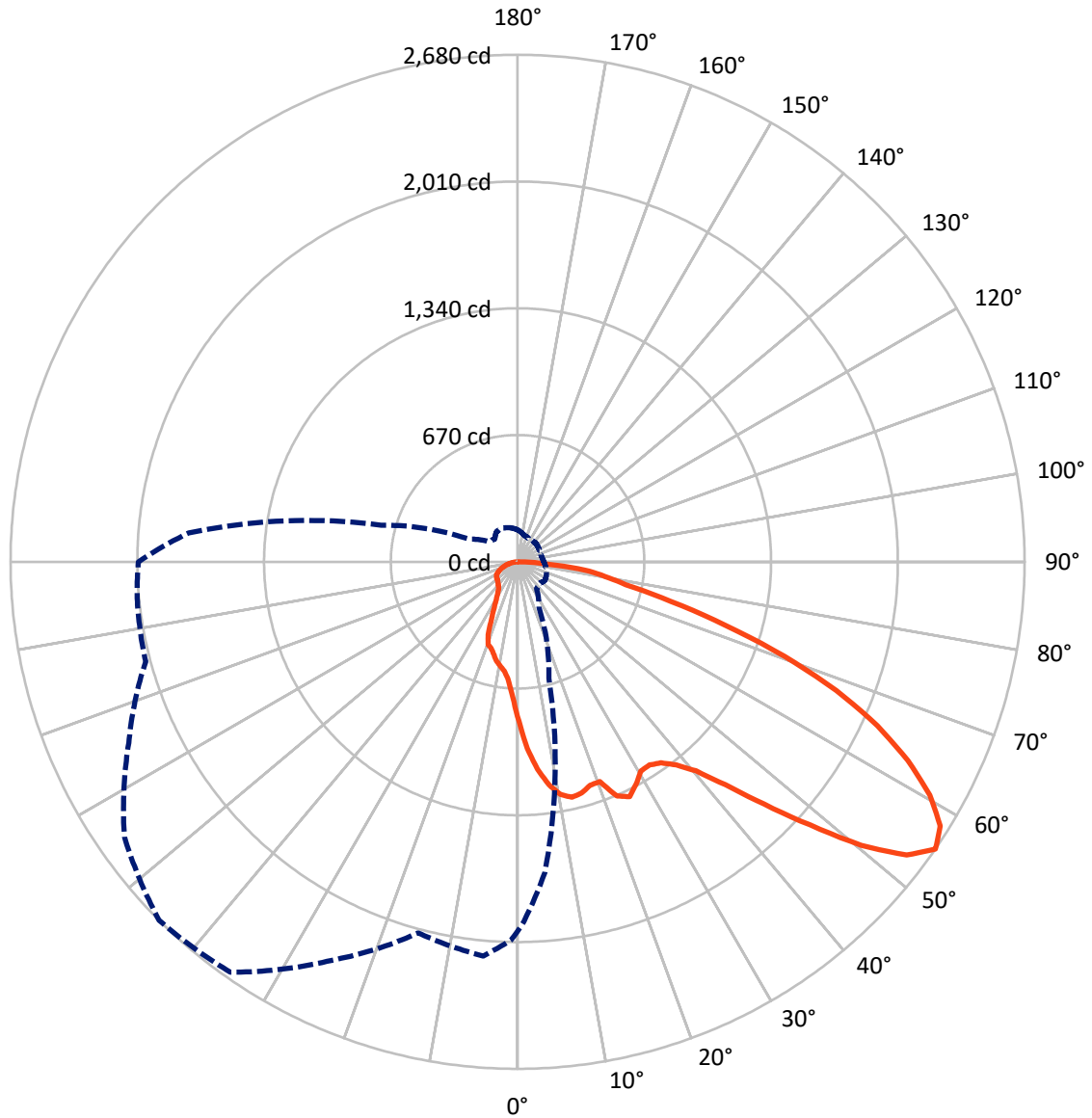
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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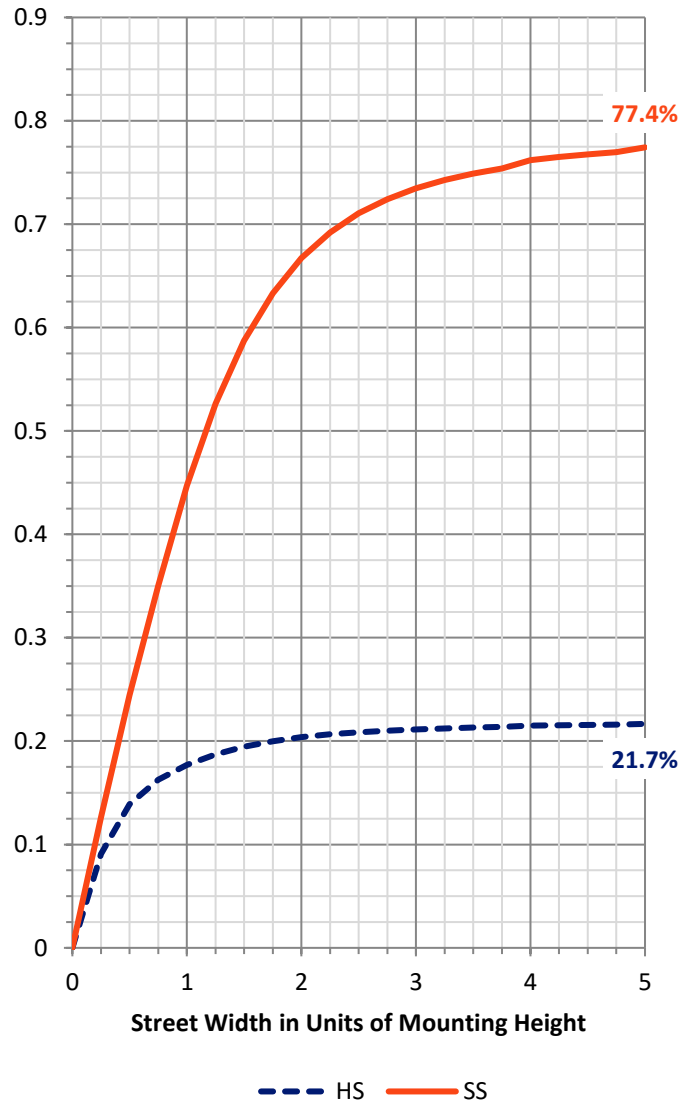
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	733.8	0.0	733.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	2620.9	0.0	2620.9
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	3354.7	0.0	3354.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	2.1
10°-20°	189.3	5.6
20°-30°	327.0	9.7
30°-40°	380.1	11.3
40°-50°	530.3	15.8
50°-60°	719.5	21.4
60°-70°	684.5	20.4
70°-80°	369.8	11.0
80°-90°	82.9	2.5
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°	3354.7	100.0
0°-180°	3354.7	100.0

**Coefficient of Utilization**

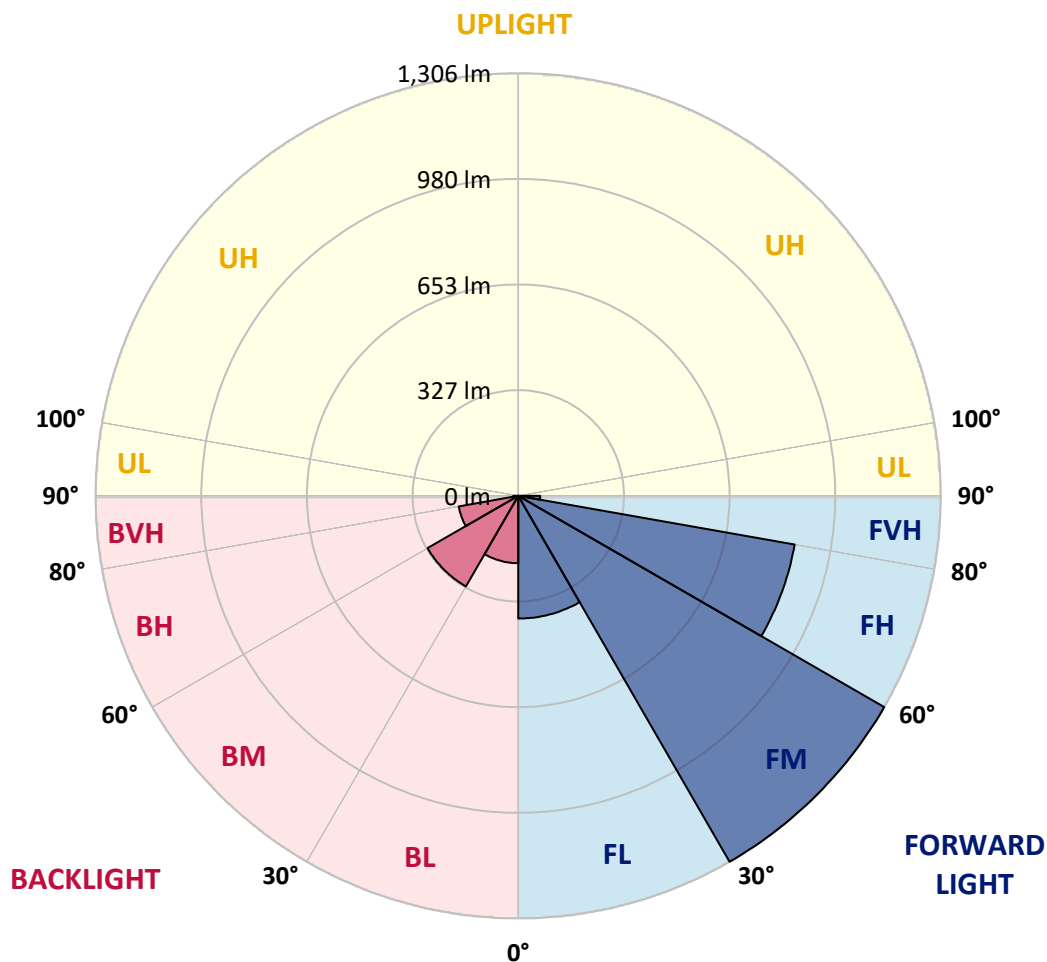


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.4	11.3			
FM (30°-60°)	1306.3	38.9			
FH (60°-80°)	867.5	25.9			G1/1800
FVH (80°-90°)	67.7	2.0			G1/100
BL (0°-30°)	208.3	6.2	B1/500		
BM (30°-60°)	323.6	9.6	B1/1000		
BH (60°-80°)	186.8	5.6	B1/500		G1/500
BVH (80°-90°)	15.1	0.5			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9
2.5°	935.3	931.7	921.8	895.7	869.3	842.6	822.0	796.3	769.5	755.1	736.8
5°	948.1	944.2	920.7	861.9	808.5	752.5	707.8	668.6	652.7	629.2	610.4
7.5°	918.0	916.3	881.1	796.5	723.5	650.3	599.5	568.1	539.6	529.0	531.2
10°	890.6	883.6	839.5	729.1	643.8	584.3	548.0	517.2	497.1	491.8	492.9
12.5°	867.8	858.3	806.3	683.6	609.1	561.5	515.3	483.2	464.7	469.9	487.1
15°	863.1	850.3	792.3	668.2	590.0	528.7	478.0	441.1	427.4	438.4	466.1
17.5°	893.2	877.1	816.3	673.3	571.9	495.3	433.1	390.9	379.4	397.0	433.1
20°	989.9	966.1	890.8	702.7	570.1	478.7	407.0	364.5	369.4	403.0	440.7
22.5°	1168.8	1132.9	1021.4	745.6	579.4	474.5	401.7	379.5	406.4	434.9	459.7
25°	1204.2	1176.1	1044.9	755.4	577.4	471.6	416.7	427.8	457.7	471.9	463.2
27.5°	1224.2	1192.0	1043.3	707.1	516.4	427.8	398.4	416.7	424.3	410.6	387.1
30°	1270.6	1237.2	1069.7	656.5	425.1	317.4	278.2	270.7	275.8	278.5	270.0
32.5°	1334.6	1301.6	1119.2	623.3	367.6	262.5	224.0	213.4	210.9	208.1	204.7
35°	1417.3	1366.6	1167.9	602.0	344.0	242.8	207.4	199.1	195.9	191.9	188.4
37.5°	1501.4	1448.4	1229.5	579.6	328.2	229.1	196.3	192.6	186.8	182.6	177.5
40°	1590.8	1531.3	1285.5	560.2	312.9	220.3	188.4	187.9	180.4	175.5	169.5
42.5°	1668.3	1607.0	1335.4	548.2	301.2	210.9	183.5	184.8	177.0	169.7	162.0
45°	1729.9	1669.6	1381.7	548.2	291.7	201.6	182.6	181.7	173.9	164.9	156.0
47.5°	1783.8	1721.7	1426.8	562.1	285.7	193.9	177.7	179.3	171.3	159.8	151.1
50°	1825.7	1770.8	1487.7	583.8	279.7	187.7	171.6	180.0	169.1	157.1	147.2
52.5°	1879.0	1829.9	1561.0	613.5	274.7	180.8	166.0	180.0	168.9	157.4	146.5
55°	1953.0	1901.2	1649.3	638.1	266.5	174.4	161.1	174.8	168.2	156.3	144.7
57.5°	2004.8	1966.0	1711.7	654.5	254.7	166.2	156.7	170.0	165.3	152.1	139.4
58°	2007.2	1969.4	1720.8	658.3	251.9	164.7	155.6	167.8	164.0	150.3	137.7
60°	1979.3	1946.7	1722.5	652.9	235.5	156.9	149.9	158.7	156.9	139.9	128.2
62.5°	1878.0	1843.1	1651.1	609.7	213.8	147.4	141.0	146.5	142.5	125.3	114.5
65°	1733.8	1669.9	1504.1	542.0	198.3	137.3	129.0	129.5	125.3	112.9	103.4
67.5°	1542.0	1470.5	1273.5	456.8	186.5	125.9	114.9	113.8	108.7	100.7	92.9
70°	1305.8	1256.9	1034.9	371.6	173.5	113.5	98.9	98.2	95.2	89.2	82.3
72.5°	1058.4	996.2	835.7	297.5	157.6	101.6	84.1	85.4	81.4	77.2	71.1
75°	781.0	740.3	646.1	238.6	136.1	88.6	70.1	70.6	68.8	64.4	59.5
77.5°	514.4	502.2	462.1	156.7	104.7	70.4	57.4	57.8	56.4	52.5	47.3
80°	346.2	338.0	313.2	100.9	70.0	50.9	44.2	44.7	44.5	40.3	33.4
82.5°	213.4	209.8	201.8	68.2	48.4	36.5	29.2	30.5	33.0	28.3	22.8
85°	100.7	100.9	121.9	37.2	28.5	23.5	15.9	17.1	17.1	17.1	12.9
87.5°	13.0	13.7	16.8	15.7	10.4	8.8	5.7	4.9	4.2	5.6	4.0
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°	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9
2.5°	730.3	726.0	716.4	714.2	712.9	716.6	706.7	709.3	704.9	717.3	715.4
5°	611.5	612.0	619.7	624.8	626.5	624.8	618.1	606.6	597.8	594.3	595.2
7.5°	527.0	534.7	548.0	562.8	576.3	580.3	576.5	554.6	530.8	515.7	510.8
10°	498.9	509.2	524.5	536.3	548.2	557.8	559.7	542.7	514.4	478.7	464.7
12.5°	500.4	514.6	529.2	532.9	531.8	535.6	533.9	530.9	512.3	467.0	443.7
15°	485.8	502.6	512.8	510.8	507.3	503.9	499.3	492.0	485.3	453.5	427.8
17.5°	452.1	469.4	477.9	478.5	478.5	477.6	466.3	463.6	462.8	447.3	431.6
20°	458.3	467.8	464.1	457.9	459.7	465.7	459.0	457.7	462.8	469.6	466.8
22.5°	461.9	458.6	430.3	402.8	396.6	415.2	419.0	433.8	454.4	479.2	495.3
25°	440.0	413.2	362.6	331.5	314.0	331.4	353.9	381.3	412.1	444.0	462.8
27.5°	367.9	347.5	311.2	283.3	268.0	270.7	289.9	315.0	343.5	365.0	378.7
30°	277.1	268.0	249.2	239.7	230.4	228.2	236.4	245.9	258.5	261.1	264.7
32.5°	204.0	202.8	203.9	200.7	199.0	198.7	196.3	198.6	199.8	201.4	198.3
35°	184.6	182.8	179.7	178.8	177.7	178.1	177.0	175.9	176.9	178.1	179.0
37.5°	174.6	172.0	167.5	166.0	166.0	166.7	164.9	164.4	166.0	170.2	172.4
40°	166.9	163.7	158.7	156.7	158.0	159.8	157.4	156.5	160.2	164.7	168.2
42.5°	159.5	157.1	152.3	150.0	151.1	154.5	151.0	150.3	155.2	160.0	164.2
45°	153.4	151.0	146.5	145.4	145.8	148.9	146.5	146.5	151.1	156.5	160.2
47.5°	148.5	145.4	142.5	141.6	142.1	143.9	143.4	143.4	147.8	153.4	157.1
50°	143.6	141.0	137.3	137.7	138.8	141.2	141.0	141.6	146.1	152.9	156.9
52.5°	141.5	137.4	133.2	133.7	137.0	139.9	139.0	139.7	144.7	157.6	163.3
55°	139.0	133.7	128.8	129.5	133.2	137.4	136.3	137.3	143.2	160.7	168.6
57.5°	134.3	128.2	122.9	123.3	128.8	133.2	131.4	132.5	139.7	157.4	165.8
58°	132.4	127.1	121.9	122.2	127.5	132.4	130.4	131.3	138.5	156.5	164.4
60°	124.0	120.9	116.4	116.6	121.7	125.9	124.8	125.7	132.8	150.0	156.0
62.5°	112.4	110.7	109.6	109.6	112.7	116.6	117.7	118.8	125.3	135.7	141.0
65°	100.1	100.1	100.2	100.2	102.3	107.3	108.0	110.8	116.9	121.9	125.9
67.5°	91.7	91.2	91.7	90.5	91.4	94.5	97.8	100.5	106.6	110.3	111.5
70°	80.8	80.6	80.8	79.2	80.3	83.0	85.2	89.7	96.0	98.7	99.4
72.5°	70.1	70.1	70.6	69.5	69.5	72.4	73.9	78.8	84.8	86.3	86.5
75°	59.1	59.8	59.8	58.2	58.6	60.4	62.4	66.4	71.9	73.0	73.0
77.5°	46.9	49.4	49.4	47.8	48.4	48.7	51.4	53.3	57.5	57.9	56.2
80°	34.1	36.5	38.5	37.2	38.3	36.9	38.5	39.9	44.1	42.0	39.2
82.5°	24.3	26.2	27.7	27.9	26.7	24.3	26.3	26.6	28.5	25.9	24.3
85°	13.5	15.1	17.1	16.1	14.4	12.9	13.5	14.0	13.7	13.0	12.2
87.5°	3.5	3.8	4.2	3.1	2.9	2.4	3.3	3.3	3.8	4.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9
2.5°	716.9	726.6	747.6	763.5	783.1	806.7	834.6	862.7	893.1	902.6	915.8
5°	593.2	617.5	627.6	656.7	685.4	728.6	774.6	828.0	886.4	914.5	941.5
7.5°	506.8	519.9	530.5	551.8	586.3	638.7	696.5	763.1	845.9	886.8	926.4
10°	460.4	461.7	474.7	501.1	531.2	577.4	632.1	706.7	798.9	848.7	895.2
12.5°	429.6	423.9	438.0	465.4	499.6	542.3	592.5	663.5	765.1	816.3	872.5
15°	402.6	393.5	404.1	432.3	465.9	516.1	570.1	645.4	751.9	811.4	873.8
17.5°	403.3	378.3	382.0	405.7	439.1	490.2	555.7	644.7	772.0	840.6	914.5
20°	453.0	413.0	395.9	400.4	432.7	488.5	562.4	675.7	838.1	938.2	1017.2
22.5°	502.0	477.9	450.4	441.4	459.0	517.5	604.7	749.0	982.0	1132.7	1275.5
25°	484.9	505.5	498.6	485.8	489.8	538.2	633.4	809.1	1093.8	1263.5	1397.7
27.5°	388.0	425.4	432.9	432.7	434.2	474.1	569.7	768.7	1107.7	1288.6	1416.7
30°	272.7	276.0	280.0	287.7	294.8	330.4	445.7	674.8	1101.5	1299.8	1428.2
32.5°	196.8	201.2	206.7	217.3	234.1	279.5	390.0	645.0	1134.3	1346.5	1461.8
35°	180.0	185.0	190.3	202.5	218.4	260.5	367.9	632.5	1188.1	1422.2	1522.3
37.5°	174.6	180.4	185.0	193.9	206.7	246.7	347.7	624.1	1243.2	1502.4	1603.3
40°	170.9	177.5	181.2	188.4	197.2	234.1	329.8	617.5	1296.5	1575.6	1668.3
42.5°	167.5	174.4	179.3	184.3	191.7	222.9	313.9	610.8	1342.7	1646.7	1733.2
45°	163.6	172.2	178.4	182.3	188.8	213.4	301.7	605.5	1395.5	1709.8	1798.6
47.5°	160.2	169.7	177.5	182.2	184.6	206.7	291.9	612.8	1458.7	1775.7	1859.5
50°	160.5	169.5	179.3	186.5	180.1	201.2	285.9	641.9	1541.0	1854.0	1907.6
52.5°	167.5	178.6	186.4	188.1	173.9	194.5	282.8	692.5	1638.4	1923.3	1956.1
55°	175.5	187.0	195.4	194.4	170.6	186.1	282.2	746.6	1745.2	2004.1	2019.2
57.5°	172.7	189.5	202.3	196.5	170.9	178.0	279.3	790.1	1834.3	2064.5	2081.6
58°	171.7	188.6	203.2	196.1	170.2	175.5	278.6	793.9	1846.8	2068.7	2090.4
60°	163.2	180.8	202.5	192.8	166.4	168.9	271.3	806.1	1843.4	2047.0	2095.7
62.5°	147.4	162.0	187.2	176.6	154.9	160.0	255.0	791.0	1753.6	1942.5	2018.0
65°	129.7	140.5	157.4	155.3	138.5	151.0	232.6	731.5	1573.6	1773.0	1852.5
67.5°	116.4	125.3	135.9	133.0	124.6	138.8	208.5	630.8	1371.8	1569.4	1669.5
70°	102.9	109.8	115.0	113.1	110.4	126.8	187.0	511.9	1178.3	1376.0	1472.9
72.5°	89.2	95.6	100.1	97.1	95.6	114.2	169.5	397.3	930.7	1135.2	1259.7
75°	74.6	81.0	84.1	80.8	79.9	100.7	143.6	296.8	698.3	875.1	982.7
77.5°	57.8	64.6	68.6	67.5	68.0	82.8	116.0	203.2	499.3	596.4	709.8
80°	40.5	48.0	50.7	49.5	52.6	63.1	81.9	129.0	344.4	387.1	467.0
82.5°	25.0	32.1	32.5	33.6	35.8	46.7	61.7	78.5	216.2	223.5	281.5
85°	12.6	15.3	16.4	18.2	20.1	28.5	35.2	48.7	139.2	105.4	157.4
87.5°	4.2	4.5	5.3	6.6	8.2	11.7	15.1	19.9	34.6	19.0	48.7
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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CATALOG NUMBER: GALN-SA1A-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9	841.9
2.5°	942.6	961.4	975.1	987.8	975.6	974.5	962.5	943.3	935.3	935.3
5°	998.2	1042.2	1077.8	1100.6	1090.9	1067.4	1028.7	979.3	952.8	948.1
7.5°	1013.4	1100.4	1166.6	1190.0	1173.7	1121.9	1047.7	964.5	926.4	918.0
10°	1004.2	1117.3	1214.4	1251.6	1228.8	1150.4	1049.3	947.3	900.4	890.6
12.5°	994.4	1119.5	1223.2	1277.1	1262.2	1173.4	1060.6	935.9	881.8	867.8
15°	1001.5	1120.3	1212.4	1268.0	1277.5	1201.1	1079.2	944.2	878.0	863.1
17.5°	1046.2	1137.1	1196.9	1241.8	1275.3	1238.7	1132.1	983.3	911.6	893.2
20°	1139.6	1177.4	1205.7	1240.5	1294.3	1315.6	1240.3	1090.9	1006.2	989.9
22.5°	1410.0	1403.2	1345.2	1344.5	1422.5	1507.7	1502.5	1309.6	1182.1	1168.8
25°	1511.4	1479.6	1395.6	1375.3	1409.6	1541.0	1522.0	1354.3	1236.5	1204.2
27.5°	1471.8	1392.8	1337.7	1333.0	1321.7	1445.9	1491.7	1372.4	1255.5	1224.2
30°	1469.4	1353.2	1274.4	1283.7	1294.6	1413.1	1508.5	1429.3	1304.2	1270.6
32.5°	1475.4	1358.7	1279.0	1280.8	1313.1	1418.0	1527.1	1491.3	1368.2	1334.6
35°	1499.4	1390.1	1308.7	1304.5	1354.9	1449.9	1558.8	1588.6	1455.6	1417.3
37.5°	1538.4	1452.7	1362.9	1361.8	1435.1	1507.4	1598.2	1687.0	1542.6	1501.4
40°	1595.7	1526.0	1459.4	1453.4	1543.9	1601.0	1649.3	1791.6	1643.7	1590.8
42.5°	1665.0	1613.9	1586.6	1610.3	1697.3	1706.1	1729.0	1888.3	1729.9	1668.3
45°	1729.2	1726.7	1764.6	1827.5	1878.1	1825.1	1812.2	1953.1	1796.7	1729.9
47.5°	1805.5	1871.5	1985.7	2077.8	2130.9	1963.3	1883.3	1995.4	1845.4	1783.8
50°	1883.0	2044.8	2227.1	2355.6	2366.8	2113.6	1932.1	2035.3	1889.6	1825.7
52.5°	1964.5	2183.2	2425.9	2575.1	2553.2	2244.5	1979.5	2062.3	1935.2	1879.0
55°	2035.3	2267.9	2537.0	2680.2	2648.1	2324.1	2030.6	2091.5	2000.3	1953.0
57.5°	2074.9	2275.0	2509.4	2634.4	2599.6	2308.6	2054.1	2113.2	2041.9	2004.8
58°	2080.6	2265.5	2484.8	2607.9	2572.5	2295.6	2053.9	2112.3	2044.6	2007.2
60°	2075.6	2203.7	2393.4	2502.9	2465.7	2213.7	2045.5	2095.7	2010.9	1979.3
62.5°	2028.4	2096.6	2235.5	2315.3	2304.6	2085.8	2010.9	2033.0	1908.5	1878.0
65°	1966.4	1950.5	2033.5	2090.0	2097.9	1989.9	1976.6	1897.6	1777.0	1733.8
67.5°	1891.2	1784.9	1784.8	1816.8	1830.1	1842.5	1905.1	1750.5	1587.6	1542.0
70°	1763.5	1529.8	1459.4	1497.2	1486.2	1590.8	1777.5	1543.7	1359.1	1305.8
72.5°	1529.4	1214.0	1101.3	1150.0	1122.1	1247.6	1555.3	1270.4	1123.9	1058.4
75°	1239.6	908.1	791.9	836.6	819.3	946.4	1294.0	922.7	806.1	781.0
77.5°	962.5	658.0	590.5	584.3	597.1	704.3	949.2	623.0	531.4	514.4
80°	618.4	471.0	475.0	467.0	473.7	444.0	576.3	397.5	359.9	346.2
82.5°	407.0	328.2	391.3	361.2	343.0	298.6	378.0	260.3	220.8	213.4
85°	277.3	241.7	220.0	168.2	198.1	229.9	283.5	140.1	111.1	100.7
87.5°	125.3	84.1	61.7	38.1	60.2	69.5	137.7	16.4	12.6	13.0
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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