

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: P450813

Luminaire Tested: **GALN-SA1C-827-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3756 lumens  
Efficiency: N/A  
Efficacy: 65.9 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): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

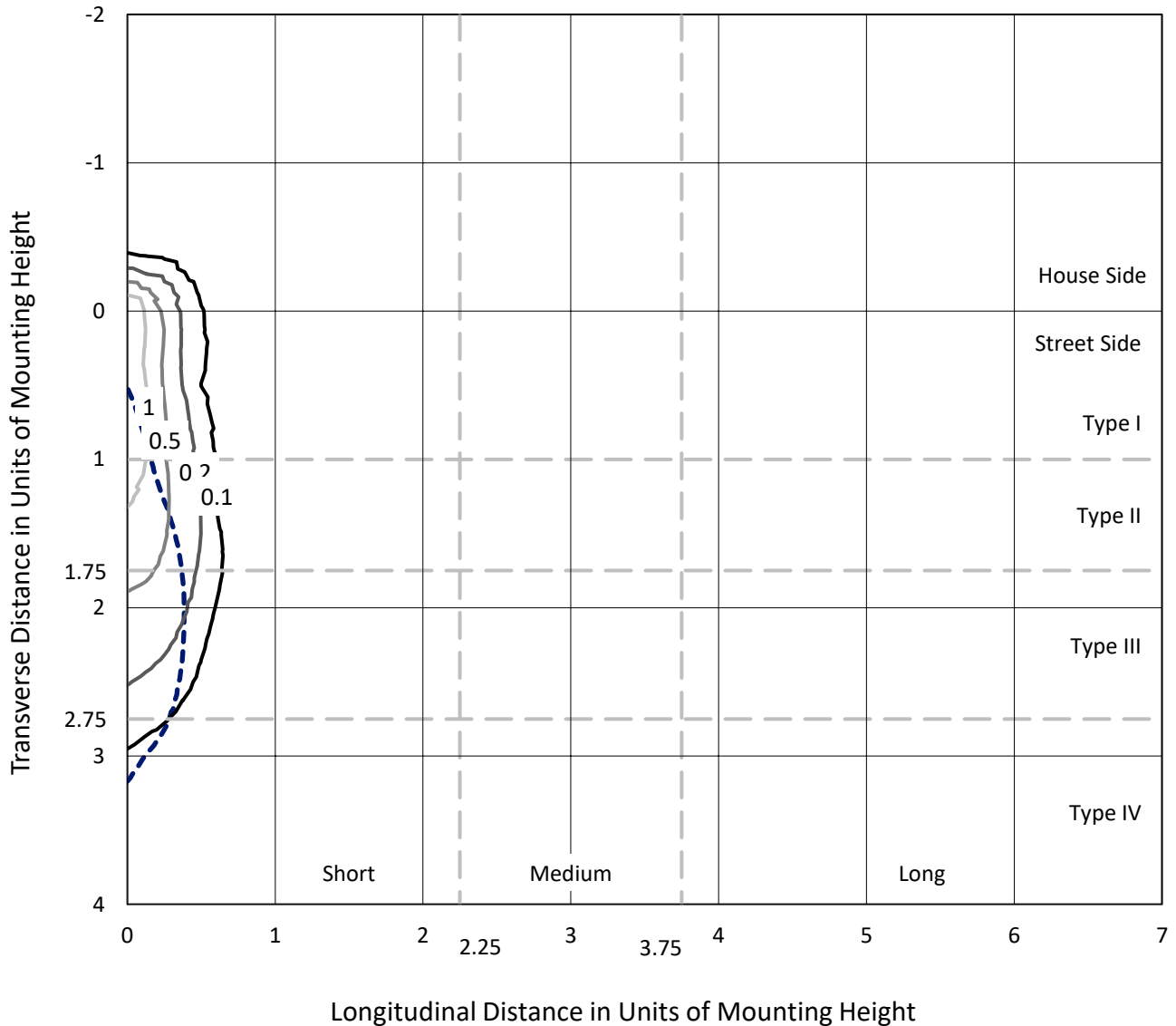




REPORT NUMBER: P450813  
 CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

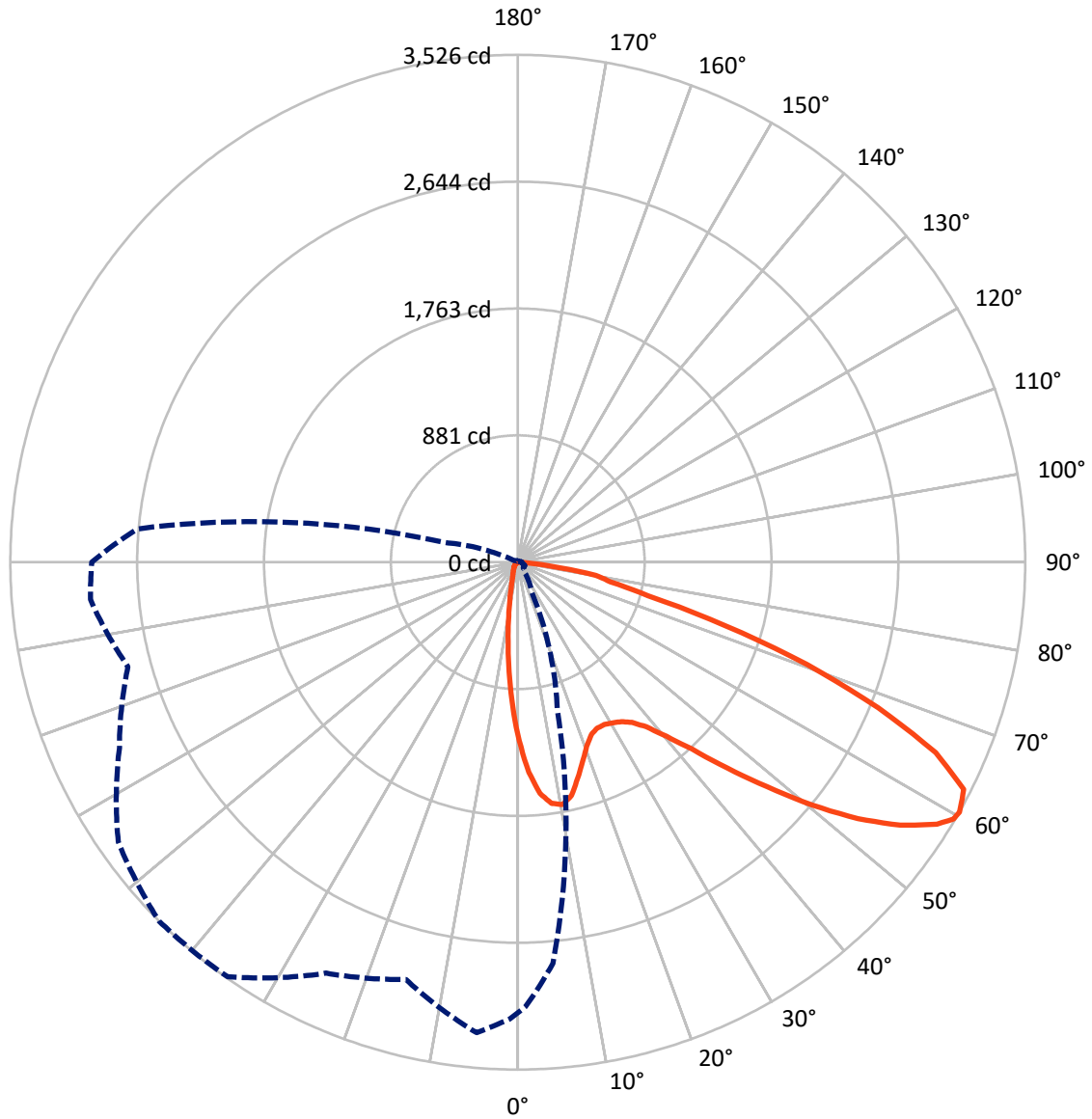
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P450813  
CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P450813

CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

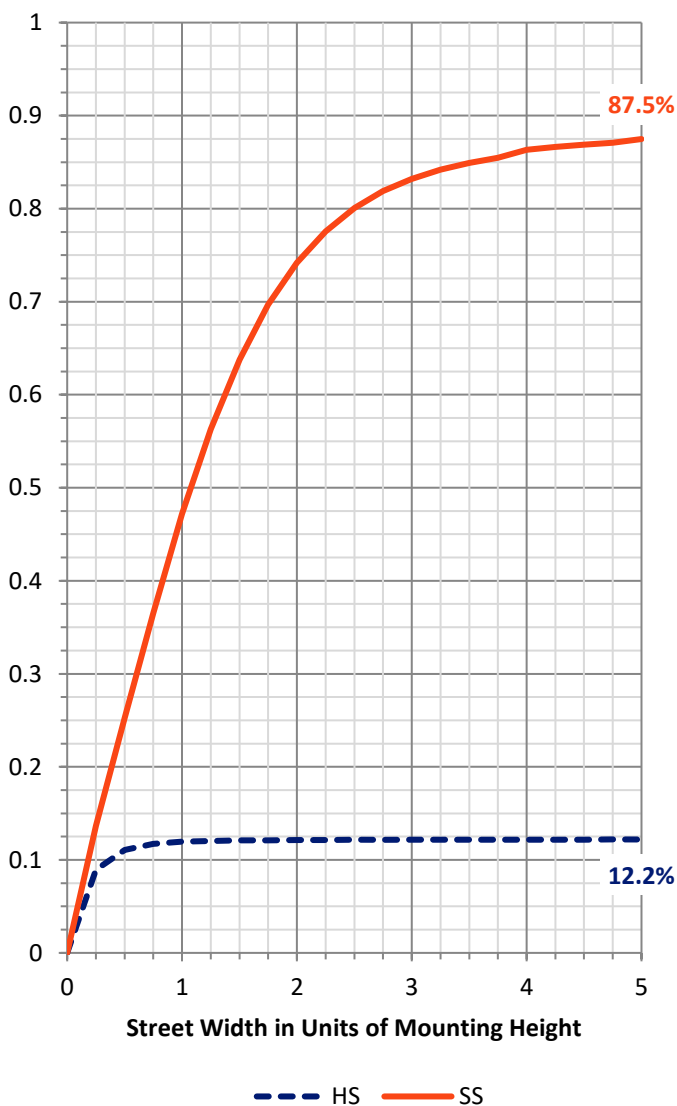
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	463.3	0.0	463.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	3292.7	0.0	3292.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	3756.0	0.0	3756.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	2.5
10°-20°	183.4	4.9
20°-30°	268.9	7.2
30°-40°	399.9	10.6
40°-50°	581.9	15.5
50°-60°	839.2	22.3
60°-70°	923.0	24.6
70°-80°	413.4	11.0
80°-90°	54.0	1.4
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°	3756.0	100.0
0°-180°	3756.0	100.0



REPORT NUMBER: P450813

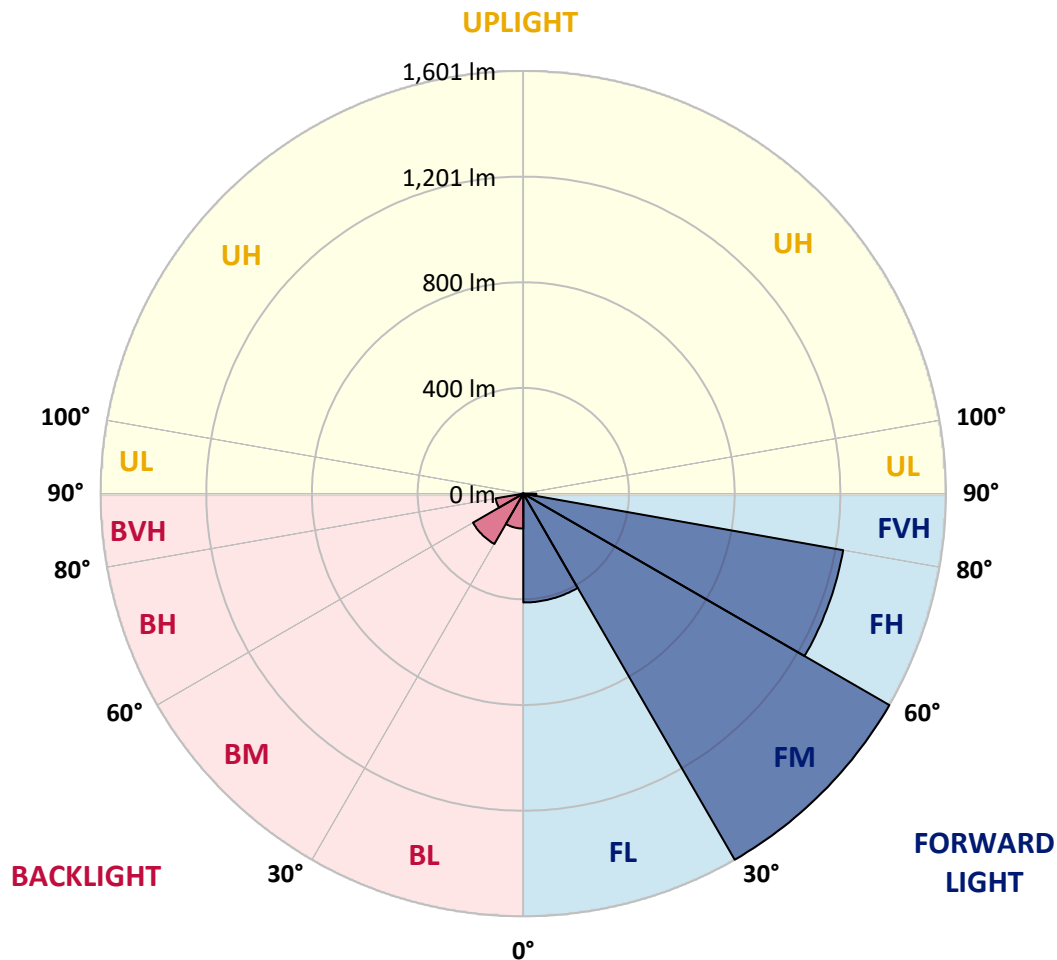
CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.2	11.0			
FM (30°-60°)	1600.9	42.6			
FH (60°-80°)	1230.2	32.8			G1/1800
FVH (80°-90°)	49.4	1.3			G1/100
BL (0°-30°)	132.4	3.5	B1/500		
BM (30°-60°)	220.0	5.9	B1/1000		
BH (60°-80°)	106.2	2.8	B0/110		G0/110
BVH (80°-90°)	4.6	0.1			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 IV Short





REPORT NUMBER: P450813

CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1364.8	1358.8	1345.1	1303.4	1267.1	1219.7	1171.7	1134.1	1110.9	1068.4	1049.0
5°	1322.2	1325.1	1285.4	1199.7	1104.4	1039.3	968.2	911.6	849.4	810.0	768.6
7.5°	1211.1	1205.4	1162.3	1043.0	927.1	832.8	742.9	669.8	623.8	587.0	556.2
10°	1116.1	1111.8	1056.7	903.1	778.6	708.1	647.3	583.3	533.9	479.9	436.8
12.5°	1056.4	1046.7	983.3	822.8	721.5	655.8	589.6	523.1	454.8	400.3	348.0
15°	1036.4	1022.4	951.9	795.2	684.9	601.6	518.5	442.0	363.5	303.2	263.8
17.5°	1072.7	1049.5	974.5	790.3	641.3	530.8	428.6	328.9	247.3	201.3	177.0
20°	1155.8	1129.2	1031.6	785.4	592.7	451.4	325.8	232.4	171.0	145.9	132.5
22.5°	1279.1	1242.6	1116.1	793.2	547.9	374.0	235.3	164.2	135.9	120.2	110.8
25°	1427.3	1396.7	1223.1	820.6	512.5	313.2	181.9	134.2	114.5	104.8	97.6
27.5°	1589.7	1540.9	1361.6	853.4	480.2	266.1	159.6	119.9	101.9	93.1	89.4
30°	1705.4	1667.4	1477.5	876.2	440.0	230.7	145.9	118.2	102.2	91.6	84.8
32.5°	1819.6	1771.0	1574.6	886.8	410.6	206.1	126.2	103.1	89.7	84.2	77.4
35°	1941.8	1891.0	1671.4	881.1	388.6	189.9	114.5	91.9	76.8	67.7	60.8
37.5°	2065.4	2011.7	1767.6	860.5	374.9	183.3	105.4	87.4	72.5	63.1	55.7
40°	2212.2	2140.5	1857.8	843.7	360.6	179.9	99.4	84.5	69.4	59.4	52.0
42.5°	2332.1	2263.8	1943.2	834.8	350.9	171.9	99.4	82.2	67.4	56.2	48.5
45°	2445.7	2374.9	2035.4	842.0	346.9	161.9	100.5	81.9	66.0	54.0	46.3
47.5°	2540.8	2479.4	2130.2	868.8	341.8	151.0	94.5	85.9	65.1	52.0	44.0
50°	2653.0	2593.6	2255.6	923.1	332.6	140.2	87.1	92.5	64.8	50.3	42.0
52.5°	2811.2	2746.9	2428.6	984.7	318.1	123.6	80.2	91.6	63.7	47.4	40.0
55°	3004.5	2952.5	2629.0	1058.7	298.1	105.1	69.4	81.4	60.2	42.5	36.5
57.5°	3128.4	3084.1	2779.2	1090.7	267.5	85.9	61.1	68.2	55.1	38.0	32.5
59°	3142.9	3103.0	2810.6	1080.1	247.5	78.5	57.1	58.5	53.7	35.4	30.3
60°	3130.7	3089.3	2798.0	1059.5	229.0	73.4	53.7	52.0	54.0	34.0	28.6
62.5°	3051.9	2981.0	2676.1	955.3	200.1	67.4	47.7	42.5	47.7	30.5	25.4
65°	2899.7	2793.5	2434.9	808.6	188.7	64.0	40.5	35.7	36.3	26.8	22.0
67.5°	2633.9	2500.0	2113.7	657.0	183.9	64.2	34.3	32.0	28.0	22.8	19.4
70°	2213.6	2080.0	1695.9	540.5	181.6	64.2	29.1	27.4	23.4	19.1	16.8
72.5°	1568.6	1424.7	1144.1	424.6	163.6	64.0	24.8	24.8	19.1	16.0	13.7
75°	886.2	887.4	719.2	300.4	135.9	52.8	20.0	19.7	14.0	12.3	10.3
77.5°	516.5	507.4	484.8	129.1	63.1	24.0	14.0	12.0	9.7	8.9	7.4
80°	265.5	218.4	212.7	46.8	22.6	15.1	9.7	6.9	6.3	5.7	5.1
82.5°	78.5	78.8	70.2	18.8	12.6	10.0	4.9	3.7	3.4	3.1	3.1
85°	5.4	3.4	4.0	5.7	7.7	4.0	0.3	0.9	0.9	1.1	1.4
87.5°	0.6	0.3	0.0	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: P450813  
 CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1027.6	1040.1	1016.7	1017.3	997.9	1004.2	981.3	988.7	975.3	985.6	1015.9
5°	773.2	776.0	757.2	751.2	754.0	765.7	770.3	749.5	758.3	740.9	739.8
7.5°	544.8	548.2	537.3	535.9	556.5	551.6	560.5	539.0	518.8	527.6	511.4
10°	423.1	408.9	386.6	380.3	376.3	378.9	378.9	359.5	356.6	348.9	360.6
12.5°	334.1	316.6	295.5	267.0	259.8	259.2	248.7	231.6	226.1	219.6	229.3
15°	242.7	235.5	217.8	201.9	185.6	182.4	165.3	151.3	132.8	130.2	129.3
17.5°	170.7	160.2	159.9	150.8	141.3	135.0	119.1	103.1	95.9	95.1	95.1
20°	127.9	124.2	118.2	117.1	114.2	107.1	92.8	84.2	80.8	81.1	82.2
22.5°	107.6	105.1	99.6	97.1	95.9	89.7	79.1	73.4	71.7	71.7	71.9
25°	96.2	93.9	87.9	83.9	82.5	77.9	69.7	65.4	64.0	64.0	64.0
27.5°	87.7	84.8	78.5	75.1	72.5	67.4	62.2	58.0	56.5	56.5	56.8
30°	81.7	78.5	72.8	68.2	64.2	59.7	55.4	51.7	50.0	49.7	50.0
32.5°	73.7	70.8	65.1	62.2	57.7	52.2	48.8	45.4	43.7	44.0	43.7
35°	57.4	56.5	52.5	53.4	50.8	46.3	43.1	39.4	37.4	37.1	37.7
37.5°	52.2	48.8	44.3	44.5	43.7	42.0	36.8	32.8	31.4	31.4	31.7
40°	48.3	44.8	39.7	37.1	37.4	37.4	32.0	27.7	26.3	26.0	26.6
42.5°	44.8	41.4	35.7	31.4	30.3	31.7	27.1	22.8	21.4	20.8	21.4
45°	42.5	38.8	32.3	27.4	24.0	25.7	22.3	18.8	17.1	17.1	16.8
47.5°	40.3	36.8	29.7	23.7	20.0	19.1	18.3	15.1	13.4	13.1	13.4
50°	38.3	34.8	26.8	20.6	16.8	14.8	14.8	12.0	10.8	10.3	10.6
52.5°	36.3	32.5	24.3	18.3	14.6	12.0	10.6	9.7	8.9	8.6	8.9
55°	33.4	29.7	21.7	15.7	12.6	10.0	8.3	8.0	7.4	6.9	7.4
57.5°	30.0	26.6	19.1	13.4	10.0	7.7	6.9	6.6	6.0	5.7	5.7
59°	28.0	24.8	17.7	11.7	8.9	6.9	6.3	6.0	5.4	4.9	5.1
60°	26.8	24.3	16.8	10.8	8.0	6.3	5.7	5.4	4.9	4.6	4.9
62.5°	23.7	21.7	14.8	8.9	6.3	4.6	4.0	4.3	4.0	3.7	4.0
65°	20.8	19.1	12.6	6.9	4.9	3.1	2.9	3.7	3.4	3.1	3.4
67.5°	18.6	16.6	10.6	5.1	3.4	1.7	2.0	3.1	3.1	2.9	3.1
70°	16.0	14.3	8.6	3.7	1.7	0.9	1.4	2.3	2.9	2.6	2.9
72.5°	13.1	11.1	6.6	2.6	0.9	0.0	0.9	2.0	2.9	2.6	2.9
75°	10.3	8.3	4.9	1.4	0.0	0.0	0.3	1.7	2.9	2.6	2.9
77.5°	7.4	6.0	2.9	0.3	0.0	0.0	0.3	1.7	2.9	2.6	2.9
80°	4.9	4.3	1.1	0.0	0.0	0.0	0.3	1.7	2.9	2.9	3.1
82.5°	3.1	2.3	0.0	0.0	0.0	0.0	0.6	2.3	3.1	3.4	3.4
85°	1.4	0.0	0.0	0.0	0.0	0.0	1.1	2.9	3.7	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.0	3.4	4.3	4.3	4.3
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: P450813

CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1021.0	1039.0	1064.4	1103.5	1135.2	1185.2	1223.4	1275.7	1328.5	1344.5	1369.3
5°	751.5	774.6	832.3	884.8	917.9	1023.6	1090.4	1195.7	1290.2	1335.6	1385.0
7.5°	521.9	549.3	593.3	666.7	736.3	822.3	930.2	1050.7	1189.2	1254.0	1323.6
10°	366.3	400.6	462.5	522.8	610.4	692.1	798.6	931.6	1084.4	1160.9	1248.3
12.5°	231.3	261.8	343.8	411.4	520.8	615.6	713.8	834.3	1011.3	1089.8	1181.5
15°	132.2	157.9	196.1	282.9	404.3	529.6	652.1	792.0	973.9	1070.7	1169.7
17.5°	98.5	105.4	122.5	171.6	282.1	428.6	595.3	779.2	999.3	1112.9	1226.0
20°	82.8	87.4	95.4	114.8	179.9	330.1	539.9	781.4	1081.5	1224.3	1331.6
22.5°	74.2	77.1	83.7	96.2	122.8	240.4	475.1	794.9	1181.2	1361.0	1485.0
25°	65.1	68.8	74.5	85.4	102.2	166.7	411.1	824.8	1320.8	1534.6	1651.1
27.5°	58.0	61.4	67.1	77.1	89.7	127.3	336.6	850.5	1468.1	1709.4	1804.7
30°	50.8	54.2	60.0	68.0	79.4	103.1	256.4	865.7	1611.2	1840.4	1913.8
32.5°	44.8	47.7	53.1	60.2	69.7	87.4	202.1	850.0	1720.5	1959.5	2008.6
35°	38.8	42.3	46.8	53.4	61.7	74.5	168.2	795.7	1814.4	2082.0	2099.7
37.5°	32.5	36.5	41.4	47.4	54.0	68.5	135.0	735.8	1914.9	2234.7	2205.6
40°	27.4	31.1	35.7	42.3	48.3	62.8	103.9	671.8	2023.4	2378.0	2321.2
42.5°	22.3	26.3	31.7	37.7	47.7	54.8	80.5	605.6	2120.8	2502.8	2425.7
45°	17.7	21.1	26.8	34.5	47.4	47.1	62.2	540.2	2194.2	2591.9	2503.7
47.5°	14.0	16.8	22.6	33.7	43.7	40.0	50.0	499.6	2271.3	2672.1	2563.3
50°	11.1	14.0	19.4	35.1	38.3	34.3	42.0	506.2	2345.8	2712.9	2587.9
52.5°	9.4	12.3	16.8	27.7	29.4	30.0	36.8	536.5	2442.0	2756.6	2636.7
55°	8.3	10.8	14.3	19.4	22.8	26.8	33.7	558.5	2570.8	2850.3	2744.4
57.5°	6.6	9.4	12.8	16.6	18.8	23.4	31.1	560.2	2687.3	2970.5	2887.4
59°	6.0	8.6	12.0	15.7	16.8	21.1	29.4	545.6	2691.5	2988.5	2953.1
60°	5.4	8.3	11.4	14.6	16.0	20.0	28.0	528.8	2652.7	2959.9	2980.2
62.5°	4.6	7.1	10.0	11.7	13.7	16.6	24.3	467.7	2464.6	2830.6	2929.9
65°	4.0	6.3	8.6	9.7	11.4	14.3	21.4	374.3	2256.7	2655.3	2786.0
67.5°	3.7	5.7	7.4	8.3	10.0	13.1	19.1	264.4	1987.5	2432.9	2569.9
70°	3.4	5.4	6.6	7.7	8.9	11.1	16.3	154.2	1530.9	2042.8	2187.6
72.5°	3.4	5.1	5.7	6.6	7.7	10.0	15.1	83.4	1046.7	1558.3	1745.3
75°	3.4	4.9	5.1	5.7	6.9	9.1	13.4	43.7	676.7	1082.7	1336.2
77.5°	3.4	4.6	5.1	5.4	6.6	8.0	11.7	27.4	450.8	758.3	903.1
80°	3.7	4.6	4.9	5.4	6.3	7.4	9.7	18.3	265.0	456.3	549.6
82.5°	4.0	4.6	5.1	5.7	6.6	7.1	8.6	11.4	122.2	301.8	341.5
85°	4.3	4.9	5.4	6.0	6.9	7.1	8.0	8.3	20.0	136.2	184.2
87.5°	4.6	5.1	5.7	6.3	7.4	7.4	7.4	7.4	6.9	14.6	37.1
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: P450813

CATALOG NUMBER: GALN-SA1C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1400.7	1433.0	1455.5	1461.3	1445.0	1437.6	1417.0	1385.0	1365.6	1364.8
5°	1476.1	1551.8	1604.3	1613.1	1581.7	1528.6	1465.5	1384.2	1336.5	1322.2
7.5°	1463.3	1595.7	1680.2	1692.5	1639.7	1538.3	1416.1	1285.1	1233.1	1211.1
10°	1410.4	1572.0	1692.8	1712.2	1641.7	1498.9	1343.6	1197.4	1132.9	1116.1
12.5°	1365.3	1528.6	1636.0	1662.8	1609.4	1467.0	1300.2	1141.2	1072.1	1056.4
15°	1345.6	1477.2	1542.9	1556.6	1547.8	1447.0	1295.7	1132.6	1053.5	1036.4
17.5°	1365.3	1433.6	1441.8	1455.8	1475.5	1445.0	1339.6	1179.2	1093.8	1072.7
20°	1417.0	1395.6	1361.3	1367.3	1412.4	1453.3	1417.9	1282.2	1178.3	1155.8
22.5°	1504.9	1386.2	1308.5	1303.4	1360.5	1481.0	1532.6	1421.9	1301.4	1279.1
25°	1612.9	1409.9	1289.1	1278.0	1340.2	1521.5	1657.4	1592.9	1461.3	1427.3
27.5°	1730.5	1459.0	1289.1	1278.2	1338.5	1557.5	1764.2	1744.2	1626.9	1589.7
30°	1795.0	1499.5	1307.7	1295.4	1359.6	1578.3	1821.3	1878.7	1751.3	1705.4
32.5°	1852.7	1555.8	1343.9	1320.8	1403.9	1609.2	1872.4	1992.9	1850.4	1819.6
35°	1905.8	1616.0	1393.9	1367.0	1462.1	1651.4	1928.9	2112.8	1988.3	1941.8
37.5°	1964.3	1686.0	1471.8	1449.0	1559.5	1733.6	1996.0	2270.4	2123.9	2065.4
40°	2028.0	1767.0	1600.0	1590.3	1714.2	1826.7	2080.8	2438.6	2278.7	2212.2
42.5°	2092.8	1860.4	1757.0	1773.0	1889.5	1957.2	2167.9	2567.9	2405.4	2332.1
45°	2151.6	1979.7	1961.2	2040.3	2094.0	2084.5	2232.4	2659.0	2515.9	2445.7
47.5°	2225.9	2153.6	2208.2	2330.1	2331.5	2223.0	2281.3	2733.5	2611.0	2540.8
50°	2308.9	2358.9	2527.1	2651.3	2617.9	2359.2	2338.4	2821.7	2709.2	2653.0
52.5°	2405.2	2588.7	2821.7	2959.6	2881.7	2507.7	2433.4	2917.1	2865.1	2811.2
55°	2517.1	2745.5	3115.5	3225.4	3146.9	2692.1	2577.9	3046.4	3041.3	3004.5
57.5°	2643.6	2911.1	3285.7	3434.4	3364.5	2908.5	2779.8	3168.3	3148.9	3128.4
59°	2743.5	2996.2	3360.8	3515.0	3472.7	3060.1	2915.4	3244.3	3173.8	3142.9
60°	2804.0	3053.8	3388.5	3525.8	3516.1	3150.4	3001.3	3281.4	3173.5	3130.7
62.5°	2983.6	3154.6	3377.9	3477.6	3515.5	3323.4	3253.4	3322.2	3114.7	3051.9
65°	3047.6	3121.2	3202.9	3190.6	3223.2	3314.5	3414.5	3277.4	2989.0	2899.7
67.5°	2923.1	2754.9	2783.8	2701.8	2685.8	2946.8	3349.1	3058.1	2743.2	2633.9
70°	2464.0	2110.5	2096.0	2133.6	2030.3	2385.7	3007.3	2635.9	2337.5	2213.6
72.5°	1939.5	1491.5	1368.8	1507.5	1504.4	1820.1	2498.2	1870.4	1579.2	1568.6
75°	1525.2	1038.4	911.4	933.9	977.3	1317.6	1989.7	1187.7	972.5	886.2
77.5°	1023.9	735.8	686.4	658.7	705.5	846.0	1258.8	644.1	545.3	516.5
80°	590.2	534.5	607.0	551.0	576.2	533.1	626.1	295.5	245.3	265.5
82.5°	384.0	304.4	324.3	241.0	329.5	332.3	201.0	87.4	73.9	78.5
85°	240.1	142.8	80.2	57.1	113.6	209.0	62.8	5.4	6.3	5.4
87.5°	62.2	23.7	10.0	14.8	18.3	16.3	14.6	0.9	0.3	0.6
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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