

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: P450434

Luminaire Tested: **GALN-SA1B-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3458 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

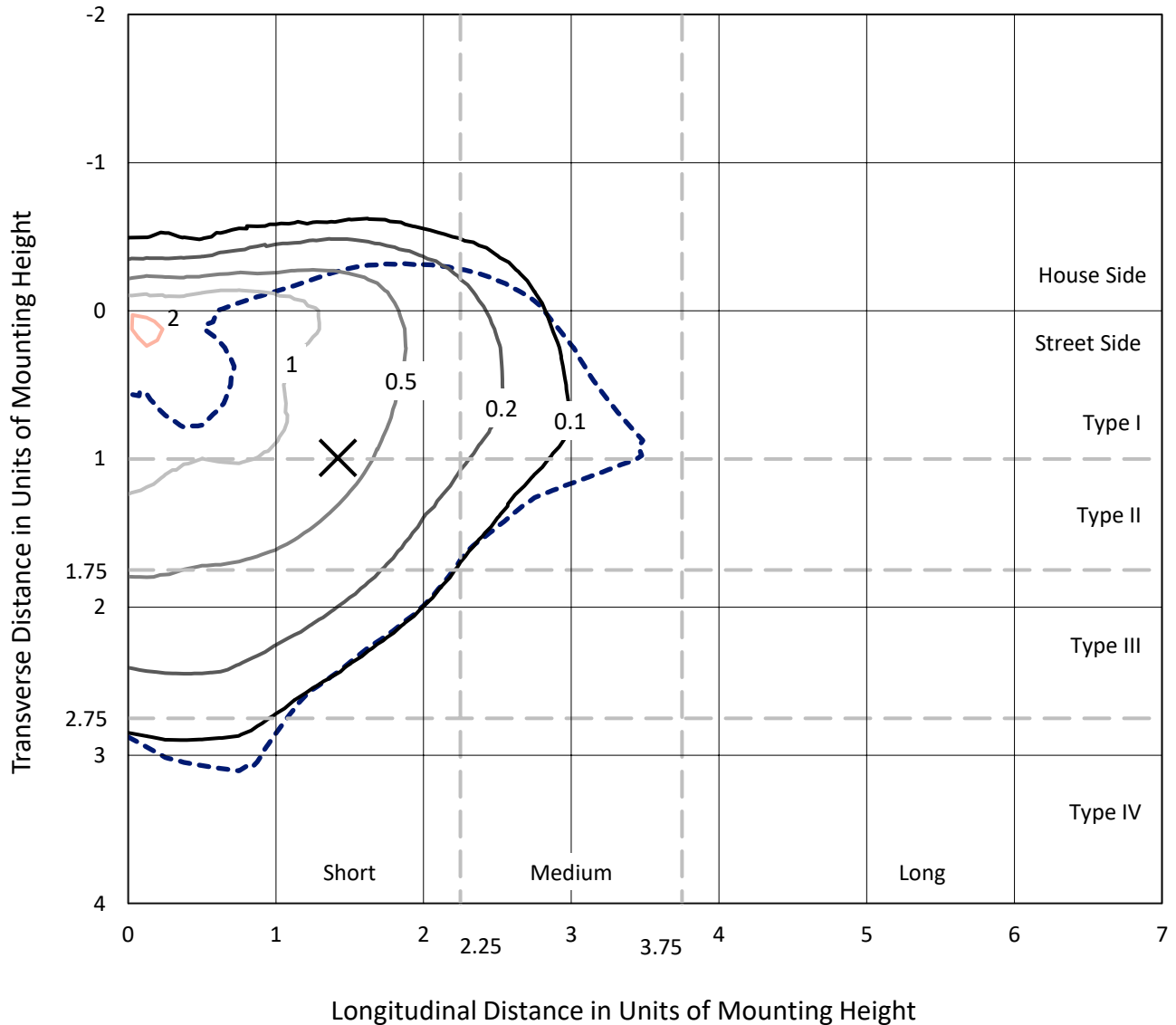
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450434
 CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

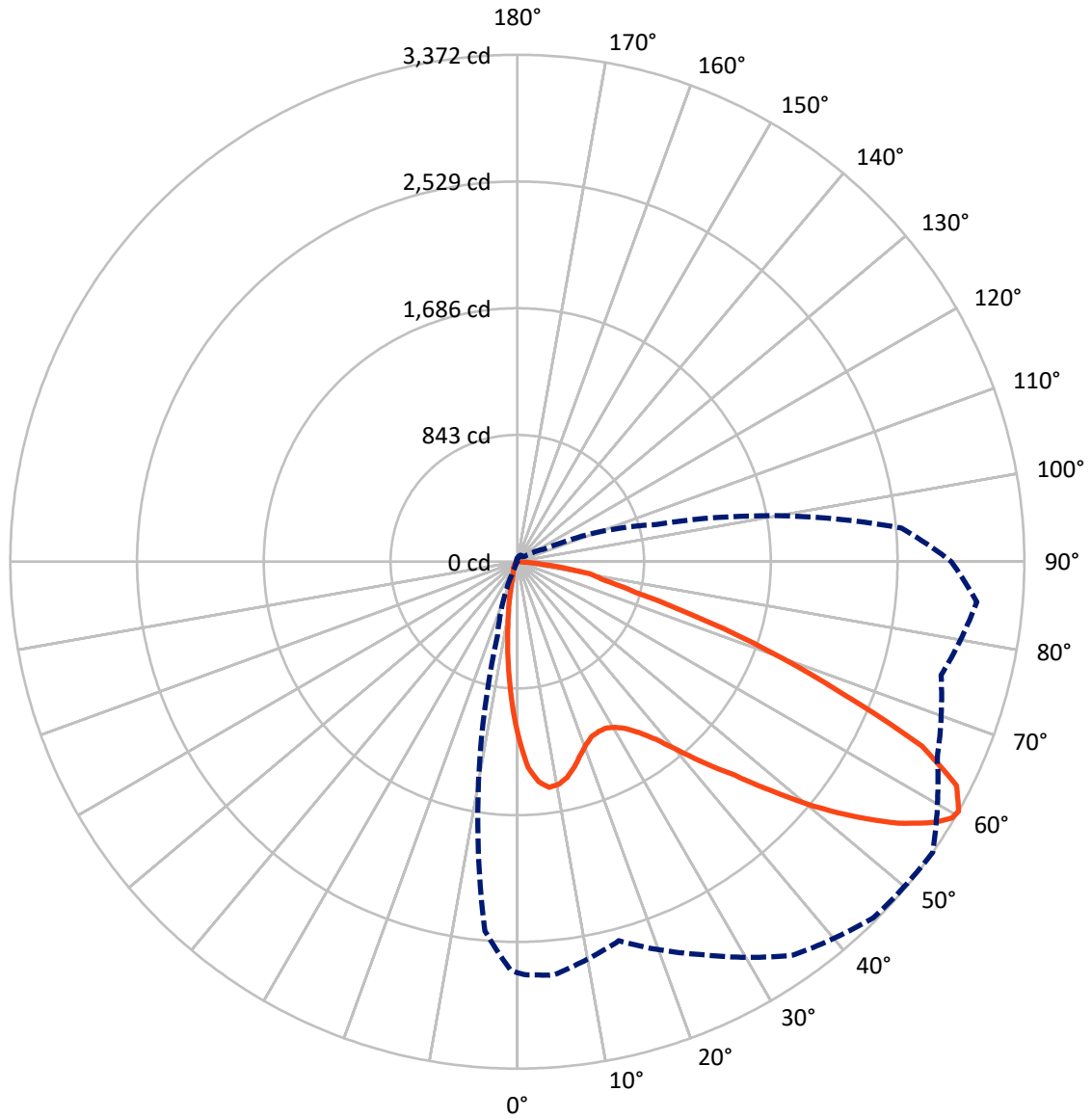
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P450434
CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P450434

CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.2	0.0	513.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	2944.8	0.0	2944.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	3458.0	0.0	3458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	2.5
10°-20°	170.7	4.9
20°-30°	252.7	7.3
30°-40°	376.7	10.9
40°-50°	551.7	16.0
50°-60°	796.5	23.0
60°-70°	837.9	24.2
70°-80°	344.7	10.0
80°-90°	40.4	1.2
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°	3458.0	100.0
0°-180°	3458.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450434

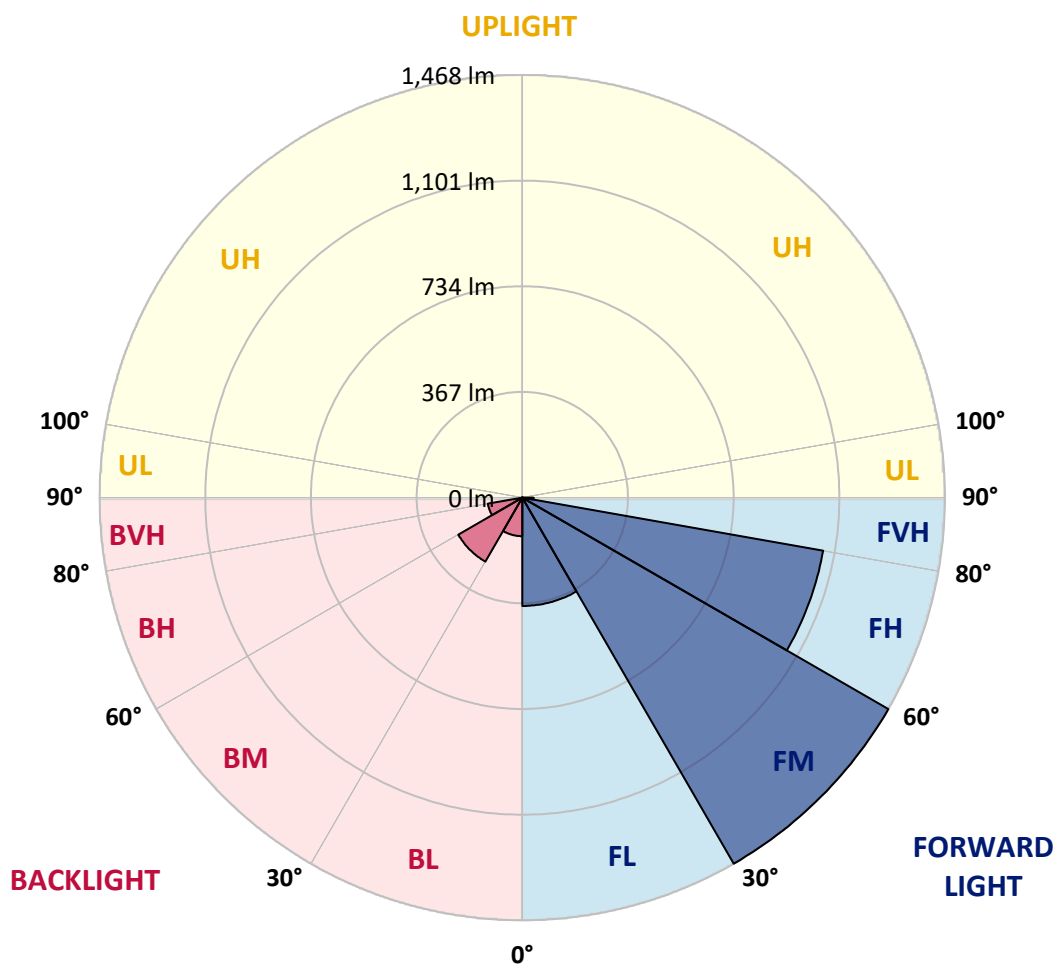
CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.3	10.9			
FM	(30°-60°)	1468.3	42.5			
FH	(60°-80°)	1061.1	30.7			G1/1800
FVH	(80°-90°)	39.2	1.1			G1/100
BL	(0°-30°)	133.9	3.9	B1/500		
BM	(30°-60°)	256.6	7.4	B1/1000		
BH	(60°-80°)	121.5	3.5	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			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 III Short





REPORT NUMBER: P450434

CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9
2.5°	1279.2	1277.1	1296.0	1326.8	1358.0	1374.2	1371.0	1369.7	1343.9	1325.0	1285.3
5°	1276.5	1287.5	1321.3	1404.8	1468.2	1498.8	1507.8	1469.8	1419.5	1346.5	1256.6
7.5°	1200.1	1213.7	1268.8	1399.5	1512.1	1578.6	1576.2	1515.3	1411.5	1298.6	1170.3
10°	1105.4	1121.4	1186.0	1344.7	1490.8	1578.6	1583.4	1506.2	1377.1	1232.4	1097.4
12.5°	1038.6	1057.5	1129.1	1293.6	1436.0	1522.5	1528.1	1472.2	1351.3	1206.8	1057.7
15°	1016.0	1033.8	1106.5	1267.8	1377.7	1424.3	1422.9	1417.1	1341.2	1212.9	1059.9
17.5°	1054.8	1069.5	1151.4	1279.5	1323.1	1318.3	1325.2	1353.5	1343.3	1264.3	1127.0
20°	1155.2	1170.1	1258.2	1315.4	1281.3	1251.0	1254.2	1301.3	1363.0	1360.9	1231.8
22.5°	1293.3	1318.6	1398.4	1385.1	1275.7	1209.2	1202.5	1263.8	1396.6	1472.2	1373.4
25°	1468.2	1493.7	1556.0	1496.4	1303.2	1199.3	1193.2	1252.3	1437.3	1580.8	1532.9
27.5°	1615.1	1634.5	1696.5	1604.7	1343.6	1203.6	1193.5	1253.9	1470.3	1673.1	1667.3
30°	1732.7	1747.1	1783.6	1655.3	1378.5	1222.2	1210.5	1277.3	1484.9	1718.1	1776.1
32.5°	1827.5	1851.7	1863.2	1709.3	1428.5	1257.4	1237.4	1322.3	1520.6	1773.7	1890.3
35°	1935.8	1963.8	1949.1	1761.0	1494.5	1312.2	1287.7	1395.2	1574.6	1825.1	2022.9
37.5°	2073.2	2105.4	2048.2	1815.3	1564.3	1394.7	1383.3	1497.7	1656.6	1898.6	2165.0
40°	2215.3	2233.9	2144.2	1881.3	1650.0	1514.8	1525.7	1650.0	1763.9	1986.7	2316.2
42.5°	2326.3	2343.9	2243.0	1936.6	1737.5	1657.2	1702.7	1833.6	1886.9	2076.9	2429.0
45°	2411.2	2426.1	2311.4	1997.1	1855.7	1863.4	1949.4	2022.9	2010.1	2132.0	2516.1
47.5°	2477.2	2490.0	2364.1	2062.0	2032.7	2115.8	2247.2	2278.4	2137.9	2191.6	2594.9
50°	2504.4	2508.1	2380.6	2144.8	2233.7	2437.3	2574.4	2555.5	2284.2	2257.9	2678.7
52.5°	2539.8	2539.0	2427.7	2223.6	2422.7	2724.8	2861.6	2818.7	2449.8	2357.2	2772.9
55°	2632.7	2633.7	2528.6	2335.4	2583.7	2956.9	3103.2	3072.1	2624.4	2524.9	2882.9
57.5°	2745.5	2749.5	2672.1	2466.0	2737.5	3125.1	3283.7	3271.7	2860.5	2711.4	2986.7
59°	2760.2	2768.1	2739.9	2558.1	2828.8	3176.7	3345.5	3357.2	2986.9	2834.4	3042.8
60°	2733.5	2746.8	2759.6	2610.3	2882.3	3195.3	3349.2	3372.1	3081.9	2918.0	3068.4
62.5°	2617.5	2638.5	2702.7	2770.8	2949.1	3137.3	3230.2	3278.1	3199.6	3137.6	3070.8
65°	2465.5	2476.4	2569.0	2799.3	2819.5	2866.4	2895.1	2956.6	3058.3	3222.2	2960.8
67.5°	2216.4	2248.6	2362.0	2634.0	2437.0	2381.7	2374.5	2313.3	2577.3	3020.5	2689.9
70°	1831.0	1845.3	1985.1	2159.4	1839.2	1754.0	1788.1	1765.2	1997.9	2600.2	2165.0
72.5°	1384.6	1417.1	1553.6	1721.3	1251.5	1141.1	1235.0	1226.5	1500.7	2089.7	1487.3
75°	985.1	1006.1	1180.2	1347.1	876.5	742.6	776.4	808.1	1047.6	1650.0	878.9
77.5°	676.9	695.0	825.7	890.9	639.3	612.5	560.3	590.9	686.4	979.0	478.3
80°	408.3	407.5	493.5	509.4	445.3	517.2	433.9	487.1	415.0	418.9	185.3
82.5°	265.1	262.4	301.8	329.0	247.8	260.6	174.9	252.1	270.4	116.8	58.6
85°	118.7	123.8	145.1	191.4	108.6	57.8	35.7	77.5	115.3	58.8	0.0
87.5°	12.2	9.6	25.6	46.6	14.9	1.6	5.3	2.7	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: P450434

CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9
2.5°	1267.0	1251.5	1205.5	1162.4	1125.4	1080.1	1050.8	1004.8	976.8	968.3	969.6
5°	1216.1	1171.7	1084.1	1014.1	936.1	891.7	824.1	759.1	724.0	710.9	705.1
7.5°	1109.7	1062.0	956.3	846.4	762.8	684.8	634.5	577.3	538.2	506.0	500.4
10°	1030.6	968.0	837.1	718.9	652.9	594.4	544.0	486.8	440.8	404.0	393.9
12.5°	983.2	913.2	767.1	668.1	605.5	545.4	479.9	413.6	366.5	326.9	308.5
15°	974.7	893.5	747.4	631.6	554.4	481.8	394.7	323.1	274.7	237.2	225.7
17.5°	1026.1	928.9	744.5	593.6	487.6	384.6	294.1	234.8	180.2	159.2	150.9
20°	1117.6	991.5	744.2	549.4	418.9	296.2	206.5	153.0	131.0	120.8	116.0
22.5°	1242.5	1076.6	758.3	511.3	347.6	218.5	147.5	121.9	109.1	100.9	99.0
25°	1395.0	1202.8	792.9	485.5	293.1	171.4	121.6	104.3	93.7	90.0	88.4
27.5°	1530.5	1323.6	831.0	458.9	253.9	151.7	112.9	95.6	87.0	84.1	81.7
30°	1647.3	1433.3	849.3	423.7	222.5	138.9	114.5	102.2	91.0	82.2	78.3
32.5°	1744.7	1517.4	861.3	391.8	195.9	113.7	90.5	79.1	74.0	70.8	68.1
35°	1866.6	1608.4	854.1	373.7	182.3	103.5	82.5	68.1	59.6	53.2	50.6
37.5°	1994.4	1699.5	841.6	358.8	176.2	96.1	78.5	64.7	55.4	48.7	45.2
40°	2126.7	1783.9	827.0	345.0	170.6	91.3	76.1	61.8	52.4	45.2	41.5
42.5°	2247.8	1866.1	821.1	335.9	161.6	92.1	74.3	60.4	49.5	42.1	38.9
45°	2345.7	1944.1	829.1	331.1	151.7	90.8	74.8	58.8	47.1	39.9	36.7
47.5°	2450.3	2054.3	854.9	326.3	142.1	84.4	78.8	58.6	46.0	38.6	35.1
50°	2572.0	2195.3	914.0	314.6	130.4	77.5	83.8	58.3	44.7	37.0	33.5
52.5°	2734.1	2355.6	975.0	294.1	113.4	70.8	80.1	57.5	42.1	35.1	31.7
55°	2879.7	2524.3	1026.6	269.9	91.8	61.2	72.1	54.0	37.5	31.9	28.7
57.5°	2939.8	2619.6	1025.0	236.4	73.5	53.8	59.4	49.5	32.7	28.2	25.6
59°	2917.7	2607.6	990.7	211.6	67.1	49.8	49.2	49.0	30.6	25.6	23.4
60°	2886.6	2564.0	953.7	199.4	63.1	47.1	45.2	48.4	28.7	24.0	21.8
62.5°	2767.3	2383.0	831.0	178.6	57.8	39.9	36.2	41.0	25.6	20.8	18.9
65°	2594.6	2104.8	703.5	172.7	56.2	33.0	30.1	29.3	21.8	17.6	16.0
67.5°	2257.6	1781.2	569.9	168.7	56.7	27.7	26.4	22.1	18.1	14.6	13.6
70°	1807.5	1388.9	466.6	164.2	57.2	22.6	22.1	17.6	14.6	12.2	11.2
72.5°	1098.2	823.3	367.3	142.7	55.6	18.1	19.7	13.3	10.6	8.8	8.3
75°	679.0	563.5	227.8	111.0	36.7	13.3	13.8	8.3	7.2	5.6	5.6
77.5°	393.4	355.9	81.4	39.9	16.2	8.0	6.1	4.3	4.0	2.4	2.4
80°	163.2	130.7	28.2	13.6	8.8	3.7	1.3	0.3	0.0	0.0	0.0
82.5°	47.6	42.3	7.7	6.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P450434
 CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9
2.5°	947.0	938.2	934.2	947.8	935.3	951.3	939.0	944.4	960.1	967.0	984.8
5°	708.8	699.8	695.5	716.0	714.9	725.0	724.0	733.3	741.3	723.4	741.8
7.5°	493.7	487.6	497.7	513.7	530.7	525.1	525.1	512.6	516.9	514.2	513.4
10°	375.6	354.5	349.2	348.7	355.1	356.4	349.2	331.9	338.3	340.2	351.3
12.5°	295.4	279.2	254.5	243.3	240.3	242.7	219.1	203.9	211.1	206.8	217.7
15°	211.9	198.6	183.9	171.4	168.0	163.2	137.3	119.2	117.1	117.9	119.8
17.5°	151.2	142.1	142.1	128.8	121.6	107.3	94.2	86.2	85.4	86.2	87.6
20°	111.5	106.7	106.2	102.7	94.8	85.2	76.1	74.5	74.0	75.3	75.9
22.5°	96.1	91.0	86.8	86.5	79.1	71.1	66.8	64.7	64.9	65.5	66.8
25°	86.0	80.6	76.1	73.5	68.1	62.5	58.6	57.5	57.5	58.3	58.6
27.5°	78.8	72.1	68.1	64.4	59.6	54.8	51.4	50.6	50.0	50.6	51.9
30°	73.7	67.1	62.0	56.4	52.7	48.2	45.2	44.2	43.9	44.2	45.2
32.5°	63.1	59.1	55.1	50.0	45.5	42.6	39.4	37.5	37.5	38.1	39.1
35°	47.6	45.5	45.2	43.9	40.2	37.0	33.3	31.4	31.4	32.5	33.0
37.5°	42.1	38.1	37.5	37.0	35.4	31.1	27.7	26.1	25.8	26.6	27.7
40°	38.3	33.8	31.4	30.9	31.1	26.4	22.6	21.0	21.0	21.3	22.4
42.5°	35.4	30.1	25.8	25.3	26.4	22.1	18.4	16.8	16.8	16.8	18.1
45°	33.0	26.9	21.8	19.2	20.8	18.1	14.9	13.3	12.8	13.3	13.8
47.5°	31.4	24.5	19.2	15.4	15.4	14.4	12.0	10.1	9.6	9.8	10.6
50°	30.1	22.4	16.2	12.5	11.2	11.4	9.0	7.7	7.2	7.2	8.0
52.5°	27.9	20.2	14.1	10.6	8.5	7.7	6.7	5.6	5.3	5.6	6.1
55°	25.3	18.4	12.2	8.8	6.7	5.3	4.8	4.0	3.7	4.0	4.8
57.5°	22.4	15.4	9.8	6.9	4.5	3.5	3.2	2.7	2.1	2.4	2.9
59°	20.5	13.8	8.5	5.6	3.5	2.4	2.4	1.9	1.3	1.6	2.4
60°	19.7	12.8	7.2	4.8	2.9	1.9	1.9	1.3	0.8	1.1	1.9
62.5°	16.8	10.6	5.6	2.9	1.3	0.3	0.8	0.3	0.0	0.3	0.8
65°	14.1	8.5	3.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	11.7	6.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P450434
 CATALOG NUMBER: GALN-SA1B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9
2.5°	985.9	1023.9	1047.4	1091.6	1136.8	1171.7	1215.3	1254.4	1270.7	1279.2
5°	760.4	813.4	858.4	925.7	988.3	1064.4	1141.6	1232.6	1267.5	1276.5
7.5°	533.7	587.7	634.8	712.8	802.0	903.9	1019.4	1134.9	1185.8	1200.1
10°	385.4	443.2	500.7	578.6	662.0	772.4	892.7	1035.7	1094.2	1105.4
12.5°	243.3	305.3	398.7	495.1	583.2	672.1	798.0	953.4	1018.1	1038.6
15°	141.1	187.4	257.9	383.5	495.6	613.2	750.6	922.5	994.9	1016.0
17.5°	94.5	110.5	158.9	255.0	403.0	559.0	738.6	947.8	1027.9	1054.8
20°	79.6	86.8	103.8	155.4	310.4	510.5	741.8	1016.5	1121.6	1155.2
22.5°	70.0	76.7	87.6	111.8	216.7	450.4	757.0	1114.7	1250.5	1293.3
25°	61.8	68.4	78.0	92.6	145.6	380.9	790.3	1258.4	1421.1	1468.2
27.5°	54.8	61.0	69.2	81.7	112.1	303.4	819.8	1398.4	1576.8	1615.1
30°	48.4	53.5	61.5	71.1	93.2	234.0	834.7	1520.9	1690.2	1732.7
32.5°	42.1	46.8	54.6	62.3	76.7	178.3	824.3	1610.8	1800.4	1827.5
35°	35.9	41.0	47.4	54.6	66.3	144.0	772.4	1712.0	1914.5	1935.8
37.5°	30.9	35.1	41.8	47.4	59.9	115.3	709.6	1803.0	2042.6	2073.2
40°	26.1	30.3	37.0	42.1	55.1	90.8	652.9	1904.2	2177.5	2215.3
42.5°	21.3	26.4	32.2	40.5	47.4	69.2	584.2	1986.1	2278.9	2326.3
45°	17.0	22.6	29.0	40.2	41.3	52.7	518.0	2050.0	2368.6	2411.2
47.5°	13.6	19.2	27.9	37.5	33.8	41.8	480.2	2116.8	2443.1	2477.2
50°	10.9	16.0	29.3	33.0	28.2	35.4	479.1	2191.4	2481.7	2504.4
52.5°	8.8	13.0	24.8	25.3	24.0	31.1	507.8	2275.2	2521.1	2539.8
55°	7.5	10.9	16.2	18.6	21.6	28.2	529.4	2404.3	2615.1	2632.7
57.5°	5.9	9.3	12.5	14.9	19.2	25.8	532.3	2503.8	2734.1	2745.5
59°	5.1	8.0	11.2	13.3	17.6	24.2	520.4	2510.0	2741.8	2760.2
60°	4.3	7.2	9.8	12.5	16.2	22.9	507.3	2465.5	2713.0	2733.5
62.5°	3.2	5.6	7.2	10.1	13.3	19.7	445.6	2310.3	2603.1	2617.5
65°	2.1	4.0	5.3	7.5	10.4	17.0	363.1	2109.1	2433.3	2465.5
67.5°	1.3	2.9	4.3	5.6	8.5	14.4	258.7	1808.6	2195.6	2216.4
70°	0.8	1.9	3.2	4.5	6.7	11.4	153.6	1429.6	1826.7	1831.0
72.5°	0.5	1.3	2.1	3.2	5.3	10.4	74.5	931.9	1333.8	1384.6
75°	0.3	0.8	1.3	2.4	4.3	8.5	35.7	622.6	970.4	985.1
77.5°	0.0	0.3	0.8	1.6	3.2	6.7	20.8	408.8	661.7	676.9
80°	0.0	0.0	0.5	1.3	2.4	4.3	12.5	241.1	400.8	408.3
82.5°	0.0	0.0	0.3	1.1	1.6	3.2	6.4	105.9	262.4	265.1
85°	0.0	0.0	0.3	1.1	1.3	2.1	2.4	14.4	116.6	118.7
87.5°	0.0	0.0	0.3	1.3	1.3	1.3	1.3	0.8	9.8	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)