

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: P527692

Luminaire Tested: **GALN-SA2D-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9690 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

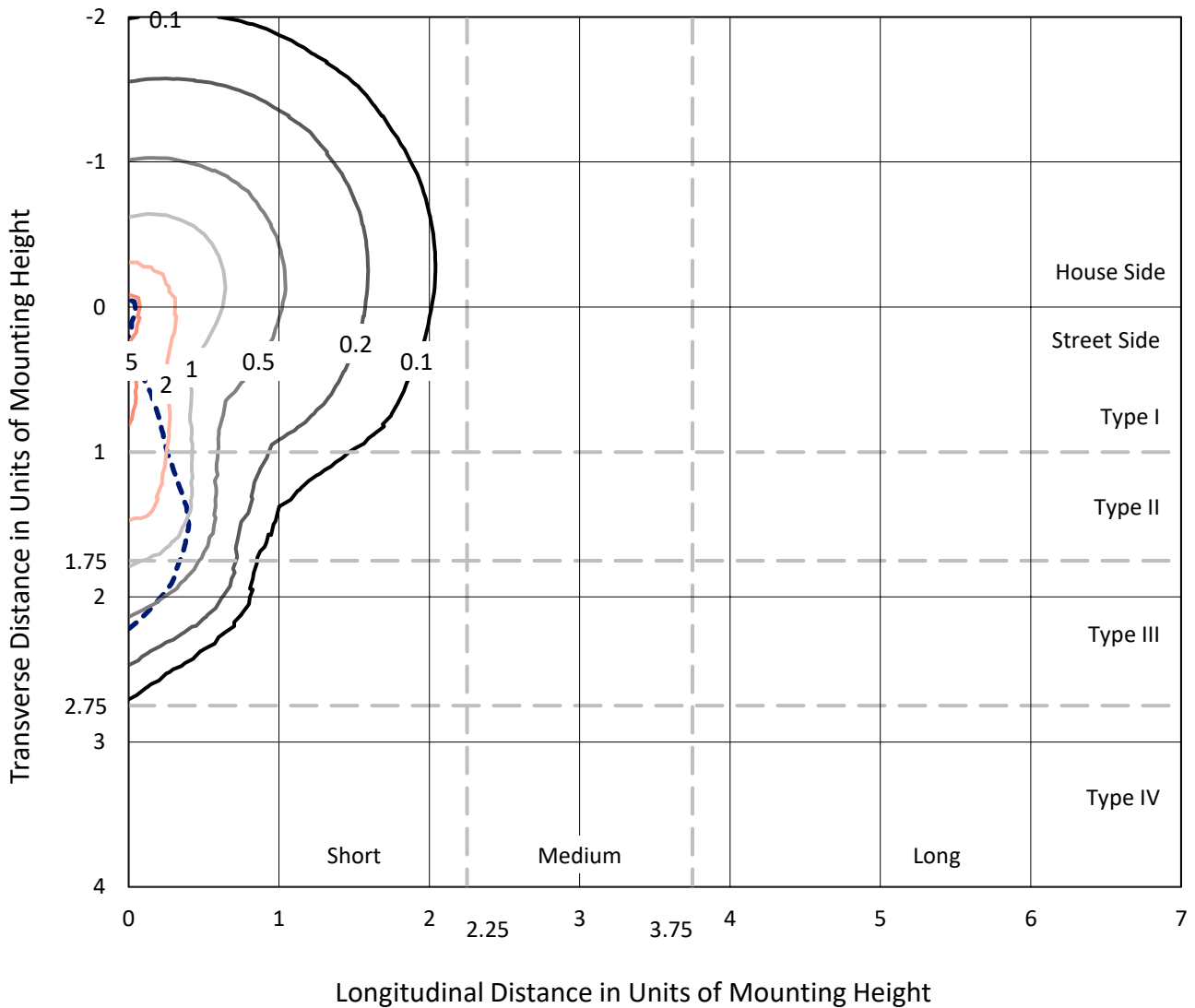
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527692
 CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

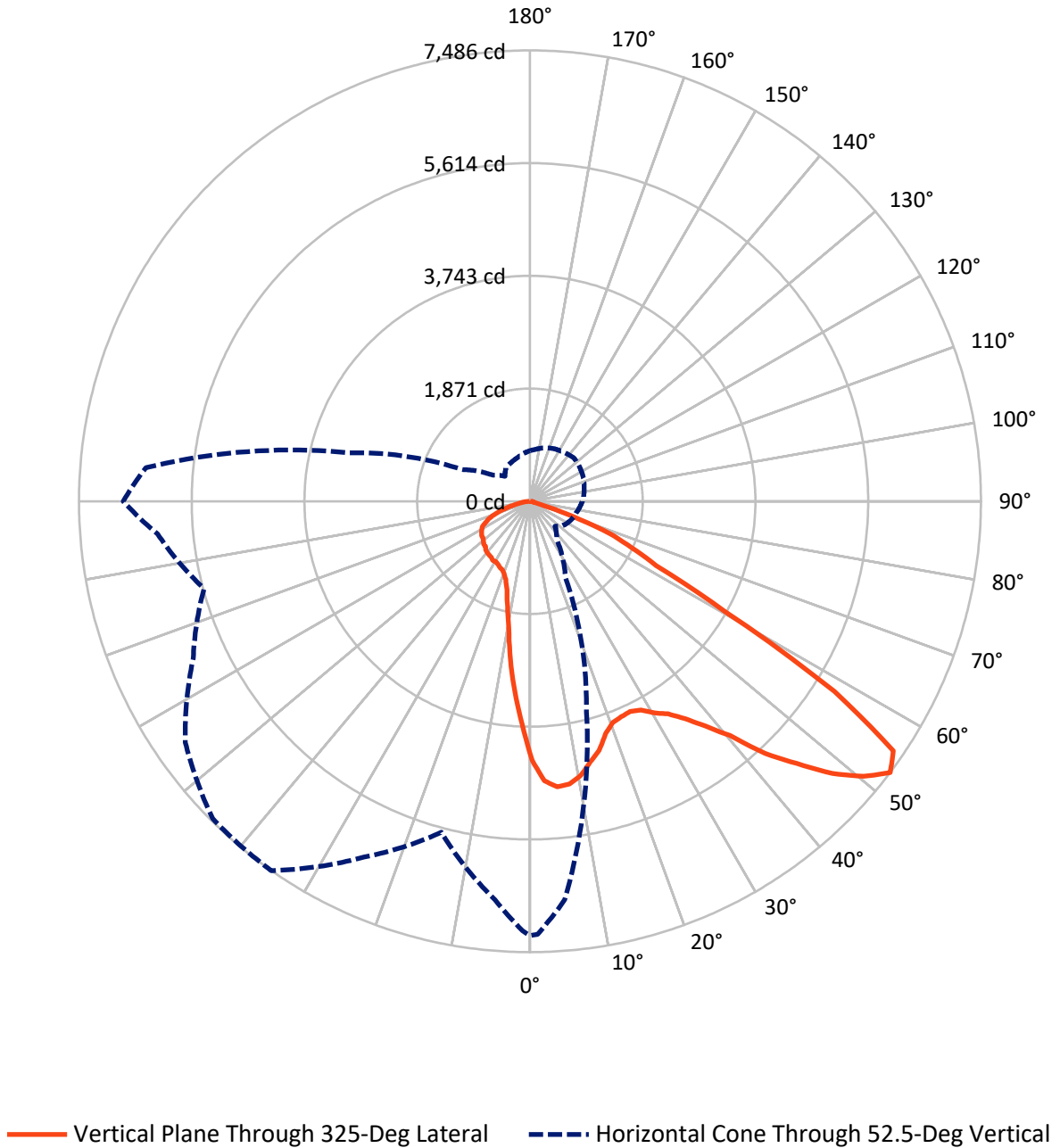
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

REPORT NUMBER: P527692
CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P527692
 CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

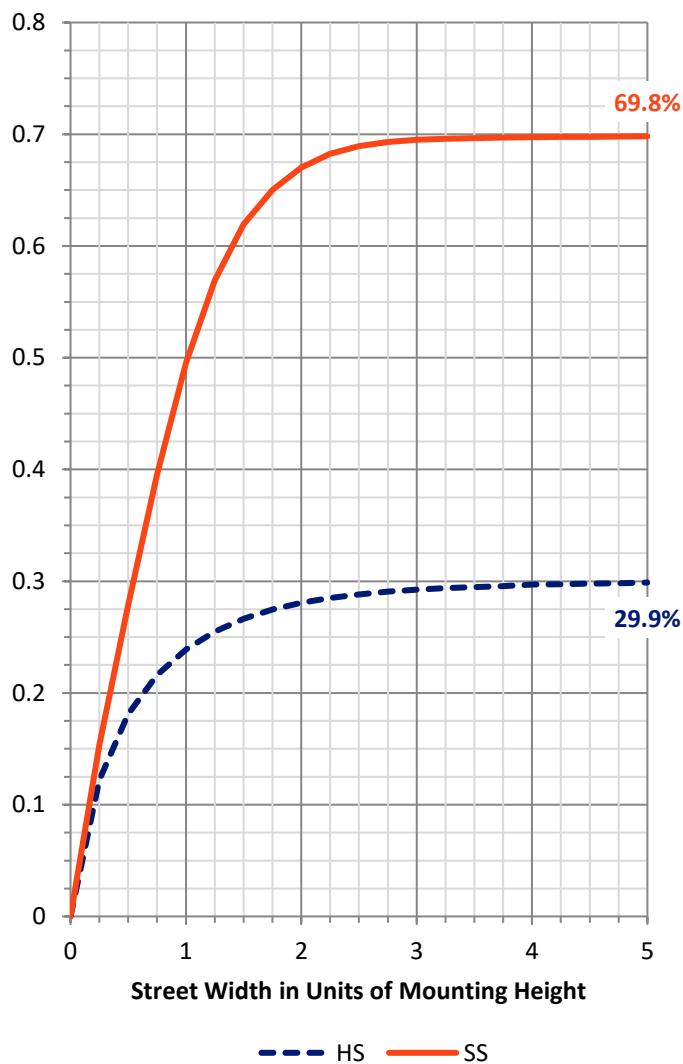
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2921.1	0.0	2921.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6768.9	0.0	6768.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	9690.0	0.0	9690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.1	3.4
10°-20°	711.3	7.3
20°-30°	1074.6	11.1
30°-40°	1552.9	16.0
40°-50°	2066.6	21.3
50°-60°	2311.6	23.9
60°-70°	1302.8	13.4
70°-80°	290.4	3.0
80°-90°	51.7	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°	9690.0	100.0
0°-180°	9690.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527692

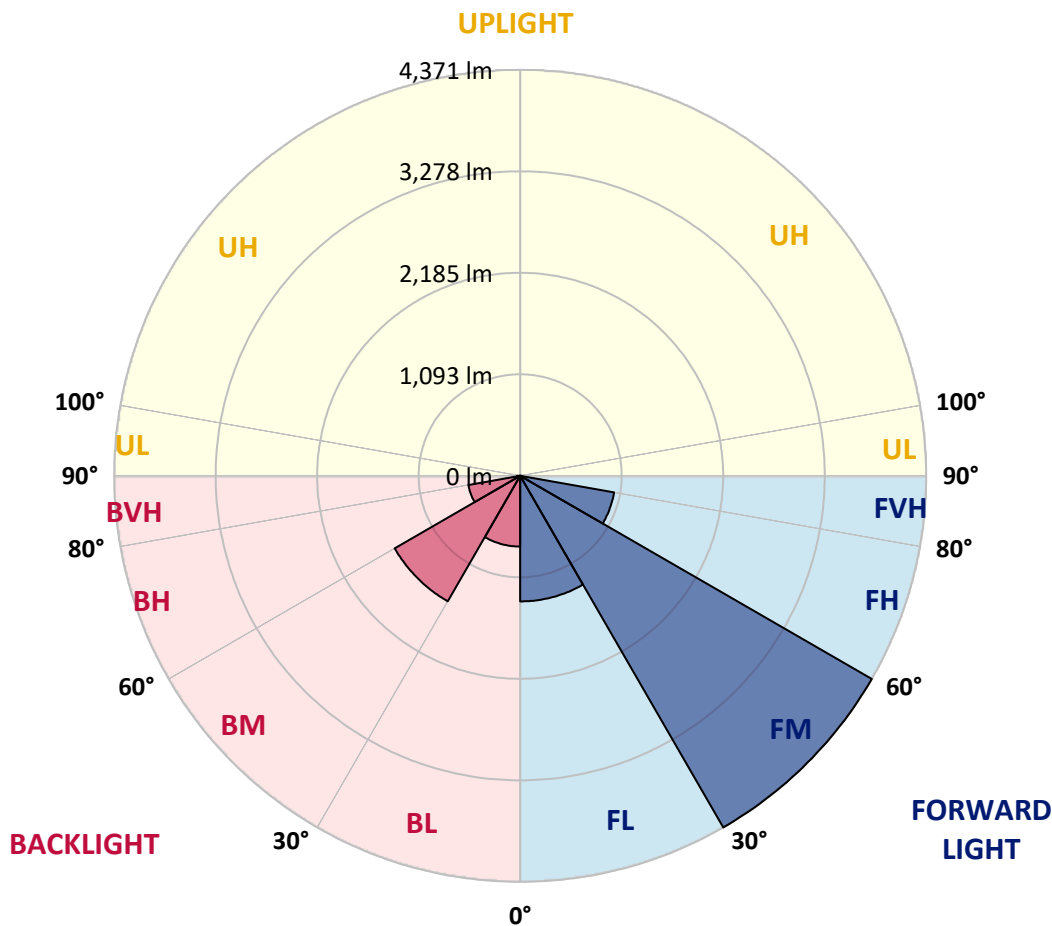
CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.2	14.0			
FM (30°-60°)	4370.9	45.1			
FH (60°-80°)	1027.0	10.6			G1/1800
FVH (80°-90°)	18.7	0.2			G1/100
BL (0°-30°)	761.8	7.9	B2/1000		
BM (30°-60°)	1560.2	16.1	B2/2500		
BH (60°-80°)	566.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	33.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P527692

CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	4372.1	4442.3	4366.5	4231.7	4136.2	4049.1	3957.8	3939.5	3820.2	3799.1	3712.0
5°	4123.5	4108.1	4015.4	3838.4	3643.2	3466.2	3335.6	3209.2	3123.5	3023.8	3016.8
7.5°	3821.6	3731.7	3678.3	3410.0	3168.5	2890.4	2771.0	2578.6	2518.2	2428.3	2382.0
10°	3551.9	3485.9	3360.9	3092.6	2755.6	2571.6	2443.8	2339.8	2269.6	2176.9	2060.4
12.5°	3418.5	3391.8	3251.3	2835.6	2585.6	2389.0	2299.1	2198.0	2078.6	1929.7	1872.2
15°	3442.4	3352.5	3245.7	2786.5	2441.0	2251.4	2108.1	1981.7	1828.6	1686.8	1603.9
17.5°	3620.7	3551.9	3338.4	2817.4	2386.2	2112.3	1852.5	1665.7	1528.1	1400.3	1342.7
20°	3971.8	3872.1	3632.0	2856.7	2268.2	1918.5	1620.8	1390.4	1243.0	1175.5	1155.9
22.5°	4360.9	4301.9	3918.5	2945.2	2174.1	1738.7	1375.0	1144.6	1089.9	1071.6	1108.1
25°	4834.2	4681.1	4363.7	3089.8	2101.1	1585.6	1167.1	1039.3	1011.2	1029.5	1071.6
27.5°	5193.7	5153.0	4675.5	3226.1	2001.4	1401.7	1050.5	966.3	974.7	993.0	1032.3
30°	5620.7	5414.2	4977.4	3320.2	1911.5	1275.3	969.1	946.6	955.0	985.9	1005.6
32.5°	5877.7	5800.5	5167.0	3462.0	1807.6	1165.7	905.9	884.8	897.5	943.8	990.2
35°	6204.9	6051.9	5401.6	3498.5	1734.5	1122.2	860.9	845.5	875.0	907.3	959.3
37.5°	6587.0	6481.6	5726.0	3473.2	1695.2	1077.2	823.0	816.0	837.1	882.0	942.4
40°	6813.1	6780.8	5896.0	3488.7	1633.4	1037.9	779.5	787.9	831.4	866.6	925.5
42.5°	7030.8	6820.1	6147.4	3483.1	1594.1	984.5	783.7	773.9	807.6	848.3	904.5
45°	7078.5	6869.3	6206.3	3443.8	1546.3	932.6	751.4	755.6	796.3	846.9	883.4
47.5°	7047.6	6893.1	6315.9	3432.5	1501.4	896.1	703.6	754.2	778.1	818.8	870.8
50°	7026.6	7018.1	6408.6	3485.9	1441.0	838.5	646.1	735.9	759.8	800.5	856.7
52.5°	7211.9	7193.7	6640.3	3626.3	1393.2	776.7	587.1	689.6	747.2	786.5	841.3
55°	7324.3	7244.2	7037.8	3799.1	1313.2	695.2	546.3	632.0	716.3	751.4	807.6
57.5°	6588.4	6533.6	6366.5	3546.3	1178.3	588.5	495.8	573.0	674.1	728.9	786.5
60°	5481.6	5396.0	4967.6	3014.0	869.4	457.9	464.9	526.7	662.9	684.0	751.4
62.5°	5168.4	4956.4	4373.5	2425.5	667.1	393.3	417.1	484.5	603.9	639.0	706.4
65°	4101.0	3943.7	3129.2	1751.4	446.6	341.3	380.6	436.8	521.1	589.9	651.7
67.5°	2567.4	2417.1	1669.9	828.6	311.8	292.1	339.9	398.9	467.7	529.5	598.3
70°	1341.3	1176.9	771.1	299.2	214.9	238.8	283.7	339.9	407.3	457.9	511.2
72.5°	500.0	405.9	251.4	129.2	148.9	182.6	230.3	271.1	318.8	380.6	410.1
75°	77.2	66.0	64.6	78.7	101.1	132.0	164.3	205.1	247.2	286.5	306.2
77.5°	36.5	35.1	39.3	52.0	67.4	94.1	119.4	158.7	192.4	217.7	228.9
80°	23.9	22.5	25.3	35.1	50.6	70.2	95.5	122.2	153.1	174.2	171.3
82.5°	14.0	15.4	15.4	23.9	35.1	50.6	68.8	92.7	113.8	132.0	120.8
85°	8.4	7.0	7.0	14.0	23.9	40.7	57.6	39.3	40.7	40.7	46.3
87.5°	2.8	2.8	2.8	1.4	2.8	2.8	4.2	7.0	8.4	9.8	12.6
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: P527692

CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	3709.2	3752.7	3737.3	3682.5	3724.6	3731.7	3703.6	3800.5	3818.7	3789.3	3797.7
5°	3007.0	3018.2	3043.5	3096.9	3134.8	3179.7	3179.7	3182.5	3144.6	3240.1	3212.0
7.5°	2342.7	2349.7	2379.2	2492.9	2525.2	2610.9	2647.4	2622.1	2546.3	2514.0	2540.7
10°	2022.4	1981.7	1971.9	1985.9	2059.0	2095.5	2126.4	2117.9	2105.3	2080.0	2051.9
12.5°	1809.0	1779.5	1755.6	1721.9	1726.1	1761.2	1785.1	1765.4	1771.0	1776.7	1785.1
15°	1577.2	1556.2	1543.5	1492.9	1487.3	1511.2	1519.6	1530.9	1551.9	1553.3	1543.5
17.5°	1331.4	1313.2	1341.3	1369.4	1349.7	1351.1	1366.5	1376.4	1370.8	1345.5	1332.8
20°	1162.9	1182.6	1210.7	1237.3	1258.4	1271.0	1276.7	1261.2	1243.0	1191.0	1189.6
22.5°	1113.7	1139.0	1162.9	1203.6	1223.3	1255.6	1226.1	1191.0	1165.7	1140.4	1110.9
25°	1077.2	1098.3	1146.0	1161.5	1199.4	1226.1	1205.0	1169.9	1126.4	1089.9	1067.4
27.5°	1050.5	1074.4	1105.3	1147.5	1176.9	1192.4	1171.3	1157.3	1112.3	1068.8	1036.5
30°	1033.7	1059.0	1115.1	1150.3	1175.5	1188.2	1151.7	1134.8	1102.5	1066.0	1037.9
32.5°	1022.5	1044.9	1092.7	1137.6	1154.5	1154.5	1160.1	1140.4	1095.5	1033.7	1009.8
35°	985.9	1016.8	1056.2	1108.1	1139.0	1157.3	1129.2	1106.7	1077.2	1014.0	970.5
37.5°	964.9	985.9	1036.5	1085.7	1112.3	1132.0	1120.8	1081.4	1042.1	990.2	955.0
40°	942.4	976.1	1021.0	1067.4	1096.9	1116.6	1108.1	1061.8	1014.0	964.9	941.0
42.5°	926.9	949.4	995.8	1047.7	1082.8	1120.8	1095.5	1037.9	1004.2	936.8	910.1
45°	914.3	950.8	1000.0	1021.0	1057.6	1096.9	1051.9	1016.8	977.5	928.4	905.9
47.5°	898.9	932.6	964.9	1021.0	1037.9	1056.2	1047.7	991.6	957.8	904.5	889.0
50°	893.2	905.9	964.9	995.8	1019.6	1037.9	1015.4	973.3	941.0	886.2	852.5
52.5°	870.8	894.6	932.6	973.3	1002.8	1025.3	988.7	962.1	918.5	860.9	839.9
55°	842.7	856.7	924.1	966.3	981.7	997.2	983.1	939.6	894.6	835.7	814.6
57.5°	806.2	838.5	893.2	952.2	971.9	980.3	957.8	922.7	866.6	814.6	780.9
60°	768.2	802.0	862.3	910.1	929.8	960.7	926.9	905.9	841.3	783.7	747.2
62.5°	730.3	768.2	813.2	873.6	890.4	903.1	894.6	865.2	813.2	748.6	703.6
65°	685.4	713.5	769.6	800.5	811.8	841.3	811.8	800.5	754.2	692.4	654.5
67.5°	618.0	641.8	691.0	720.5	728.9	741.6	740.2	727.5	675.5	633.4	599.7
70°	540.7	561.8	592.7	627.8	632.0	647.5	633.4	630.6	596.9	539.3	521.1
72.5°	434.0	453.6	494.4	509.8	511.2	516.8	509.8	500.0	491.6	431.2	412.9
75°	332.9	344.1	363.8	377.8	377.8	384.8	380.6	370.8	348.3	310.4	292.1
77.5°	231.7	243.0	268.3	276.7	275.3	278.1	265.4	255.6	221.9	202.2	186.8
80°	168.5	175.6	188.2	193.8	195.2	199.4	184.0	175.6	155.9	133.4	126.4
82.5°	122.2	126.4	127.8	134.8	134.8	127.8	123.6	115.2	101.1	87.1	81.5
85°	50.6	52.0	53.4	61.8	63.2	75.8	70.2	66.0	57.6	49.2	44.9
87.5°	12.6	14.0	18.3	15.4	18.3	18.3	19.7	22.5	22.5	18.3	18.3
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: P527692

CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	3830.0	3841.2	3984.5	4002.7	4073.0	4144.6	4289.2	4393.2	4477.4	4532.2	4547.7
5°	3241.5	3313.1	3379.2	3485.9	3582.8	3720.4	3879.1	4075.8	4323.0	4449.4	4499.9
7.5°	2537.9	2622.1	2717.6	2821.6	2963.4	3210.6	3422.7	3650.2	3966.2	4096.8	4294.9
10°	2071.6	2165.7	2292.1	2372.1	2543.5	2779.4	3026.6	3289.3	3591.2	3779.4	4008.4
12.5°	1831.4	1908.7	2025.2	2193.8	2321.6	2474.7	2658.7	2990.1	3422.7	3601.1	3758.4
15°	1566.0	1651.7	1786.5	1973.3	2126.4	2308.9	2515.4	2876.4	3337.0	3612.3	3745.7
17.5°	1346.9	1408.7	1550.5	1712.0	1887.6	2087.0	2383.4	2870.7	3426.9	3779.4	3997.1
20°	1195.2	1203.6	1280.9	1418.5	1657.3	1917.1	2301.9	2842.6	3714.8	4067.3	4342.6
22.5°	1099.7	1091.3	1092.7	1209.2	1376.4	1750.0	2174.1	2938.1	4042.1	4525.2	4710.6
25°	1051.9	1029.5	1015.4	1040.7	1192.4	1551.9	2077.2	3064.5	4394.6	4903.0	5130.5
27.5°	1026.7	987.3	959.3	963.5	1074.4	1452.2	2016.8	3119.3	4744.3	5429.7	5509.7
30°	1016.8	967.7	926.9	912.9	985.9	1313.2	1887.6	3213.4	5057.5	5719.0	5787.8
32.5°	981.7	921.3	882.0	869.4	898.9	1191.0	1794.9	3280.8	5334.2	6033.6	6009.7
35°	941.0	890.4	841.3	817.4	838.5	1112.3	1720.5	3248.5	5660.0	6278.0	6265.3
37.5°	936.8	870.8	830.0	790.7	789.3	1015.4	1619.4	3279.4	5867.9	6716.2	6543.4
40°	900.3	858.1	804.8	772.5	754.2	966.3	1521.0	3206.4	6172.6	6893.1	6723.2
42.5°	901.7	838.5	792.1	754.2	735.9	894.6	1453.6	3186.7	6279.4	7181.0	6807.5
45°	879.2	817.4	778.1	733.1	723.3	839.9	1389.0	3095.4	6467.6	7195.1	6702.1
47.5°	856.7	802.0	759.8	706.4	684.0	820.2	1338.5	3019.6	6369.3	7063.1	6556.1
50°	841.3	778.1	738.8	700.8	637.6	786.5	1272.4	3001.3	6231.6	6884.7	6285.0
52.5°	814.6	758.4	717.7	688.2	587.1	755.6	1247.2	3108.1	6400.2	6751.3	6206.3
55°	789.3	731.7	679.8	622.2	544.9	674.1	1176.9	3207.8	6645.9	7058.9	6563.1
57.5°	762.6	707.9	651.7	582.9	504.2	589.9	1103.9	3226.1	6185.3	6523.8	6230.2
60°	727.5	657.3	615.2	525.3	460.7	488.8	875.0	2844.0	4797.7	5447.9	5457.8
62.5°	688.2	612.3	575.8	470.5	415.7	421.3	713.5	2390.4	3891.8	4509.7	4778.0
65°	636.2	563.2	519.7	435.4	383.4	365.2	522.5	1751.4	2956.4	3658.6	3963.4
67.5°	568.8	500.0	445.2	379.2	342.7	313.2	356.7	985.9	1745.8	2456.4	2549.1
70°	497.2	438.2	380.6	325.8	285.1	264.0	261.2	436.8	834.3	1321.6	1504.2
72.5°	391.8	349.7	303.4	262.6	236.0	205.1	186.8	181.2	282.3	537.9	743.0
75°	280.9	245.8	219.1	192.4	172.7	155.9	141.9	129.2	118.0	134.8	185.4
77.5°	177.0	164.3	143.3	136.2	125.0	120.8	115.2	108.1	99.7	94.1	94.1
80°	119.4	111.0	103.9	102.5	98.3	96.9	98.3	91.3	82.9	75.8	78.7
82.5°	80.1	78.7	77.2	75.8	77.2	78.7	81.5	80.1	73.0	68.8	70.2
85°	47.8	50.6	53.4	56.2	61.8	54.8	44.9	37.9	33.7	30.9	29.5
87.5°	18.3	25.3	22.5	21.1	22.5	21.1	19.7	18.3	15.4	14.0	14.0
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: P527692

CATALOG NUMBER: GALN-SA2D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	4650.2	4678.3	4702.2	4696.5	4647.4	4581.4	4554.7	4418.5	4390.4	4372.1
5°	4713.4	4876.3	4911.4	4890.4	4762.6	4601.0	4443.7	4244.3	4127.7	4123.5
7.5°	4596.8	4797.7	4860.9	4908.6	4738.7	4457.8	4188.1	3889.0	3815.9	3821.6
10°	4300.5	4620.7	4776.6	4825.8	4630.5	4387.6	4014.0	3710.6	3554.7	3551.9
12.5°	4136.2	4387.6	4431.1	4499.9	4442.3	4196.6	3912.8	3573.0	3421.3	3418.5
15°	3990.1	4155.8	4168.5	4265.4	4296.3	4130.5	3939.5	3577.2	3455.0	3442.4
17.5°	4117.9	4002.7	3955.0	3967.6	4058.9	4119.3	4094.0	3815.9	3690.9	3620.7
20°	4203.6	3946.6	3801.9	3815.9	3924.1	4144.6	4324.4	4161.4	3963.4	3971.8
22.5°	4432.5	3955.0	3728.9	3713.4	3884.8	4276.6	4584.2	4598.2	4407.2	4360.9
25°	4775.2	4051.9	3706.4	3702.2	3866.5	4418.5	4887.5	5115.1	4919.9	4834.2
27.5°	5050.5	4203.6	3776.6	3790.7	3924.1	4533.6	5146.0	5447.9	5299.1	5193.7
30°	5292.0	4360.9	3874.9	3810.3	4078.6	4594.0	5256.9	5827.1	5707.8	5620.7
32.5°	5391.8	4584.2	4030.8	3924.1	4206.4	4667.0	5487.3	6195.1	6092.6	5877.7
35°	5560.3	4709.2	4115.1	4106.7	4429.7	4842.6	5595.4	6438.1	6395.9	6204.9
37.5°	5695.1	4835.6	4414.2	4321.5	4735.9	5137.5	5769.6	6773.8	6676.8	6587.0
40°	5799.0	5061.7	4693.7	4815.9	5112.3	5405.8	5929.7	6794.8	7074.3	6813.1
42.5°	5703.5	5263.9	5153.0	5445.1	5726.0	5712.0	5947.9	6957.7	7167.0	7030.8
45°	5679.7	5606.6	5879.1	6144.5	6209.2	5966.2	5817.3	6778.0	7138.9	7078.5
47.5°	5622.1	5943.7	6418.4	6851.0	6752.7	6136.1	5661.4	6745.7	7155.8	7047.6
50°	5602.4	6016.7	6817.3	7238.6	7179.6	6283.6	5588.4	6537.8	7036.4	7026.6
52.5°	5601.0	6167.0	6983.0	7449.3	7485.8	6516.7	5688.1	6643.1	7129.1	7211.9
55°	5664.2	6119.3	6961.9	7332.7	7318.7	6412.8	5699.3	6713.4	7242.8	7324.3
57.5°	5342.6	5481.6	5745.7	6039.2	5963.4	5311.7	5089.8	6206.3	6647.3	6588.4
60°	4613.7	4178.3	3880.5	3866.5	3719.0	3515.4	4165.7	5539.2	5539.2	5481.6
62.5°	4040.7	2742.9	2356.7	2247.1	2352.5	2587.0	4018.2	5387.5	5234.5	5168.4
65°	3533.6	2094.1	1703.6	1672.7	1855.3	2209.2	3633.4	4589.8	4320.1	4101.0
67.5°	2273.8	1533.7	1266.8	1212.1	1432.6	1622.2	2418.5	2823.0	2653.0	2567.4
70°	1466.3	998.6	705.0	661.5	747.2	1000.0	1544.9	1646.0	1398.9	1341.3
72.5°	693.8	431.2	247.2	203.6	228.9	382.0	610.9	657.3	546.3	500.0
75°	220.5	158.7	101.1	87.1	82.9	98.3	140.4	108.1	78.7	77.2
77.5°	98.3	94.1	80.1	67.4	59.0	49.2	40.7	33.7	35.1	36.5
80°	81.5	74.4	66.0	59.0	49.2	37.9	29.5	22.5	22.5	23.9
82.5°	71.6	64.6	57.6	49.2	42.1	30.9	22.5	15.4	14.0	14.0
85°	30.9	36.5	39.3	42.1	33.7	25.3	15.4	9.8	8.4	8.4
87.5°	12.6	11.2	9.8	8.4	7.0	7.0	5.6	4.2	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)