

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: P454843

Luminaire Tested: **GALN-SA6A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19549 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

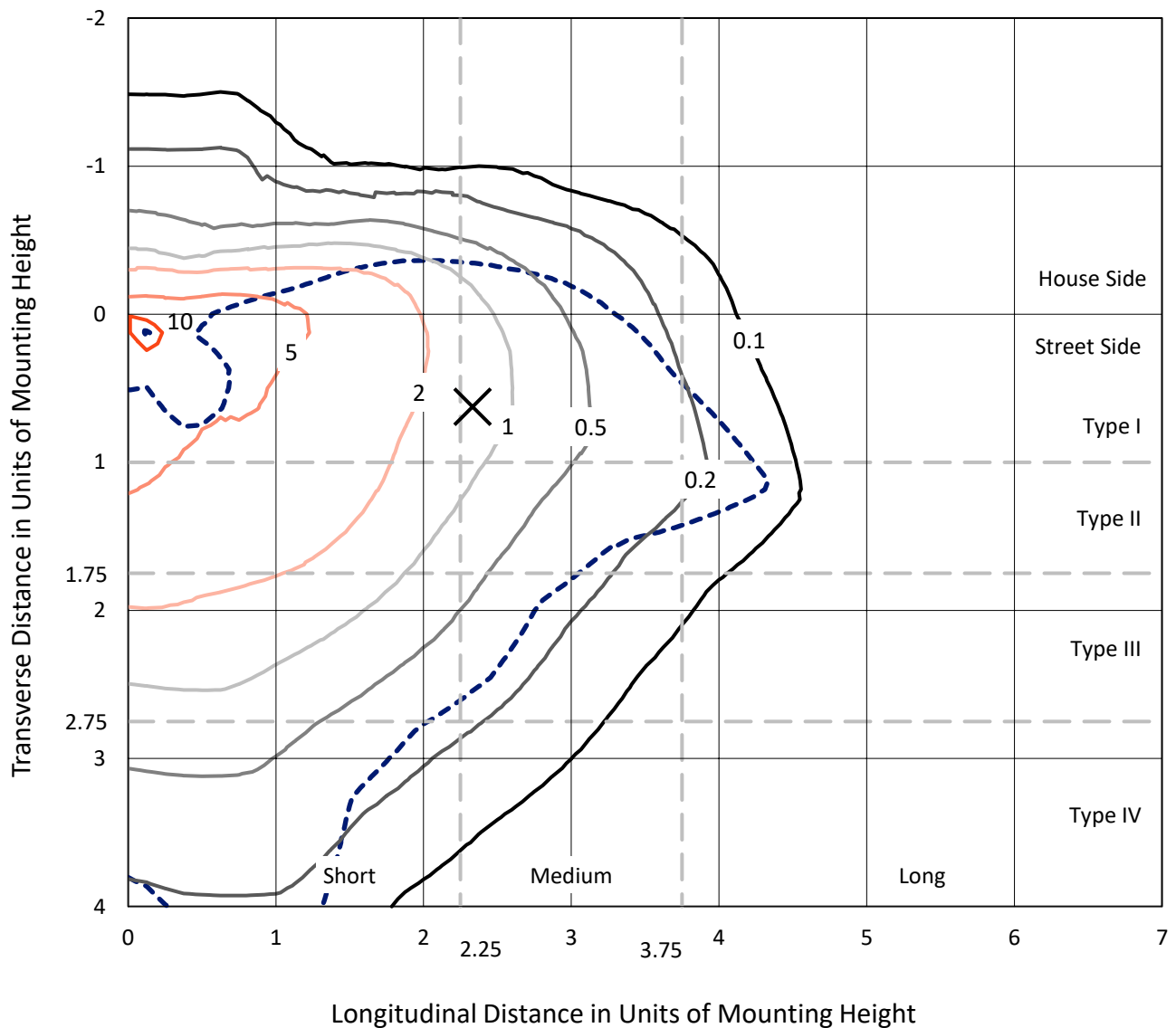
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454843
 CATALOG NUMBER: GALN-SA6A-727-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

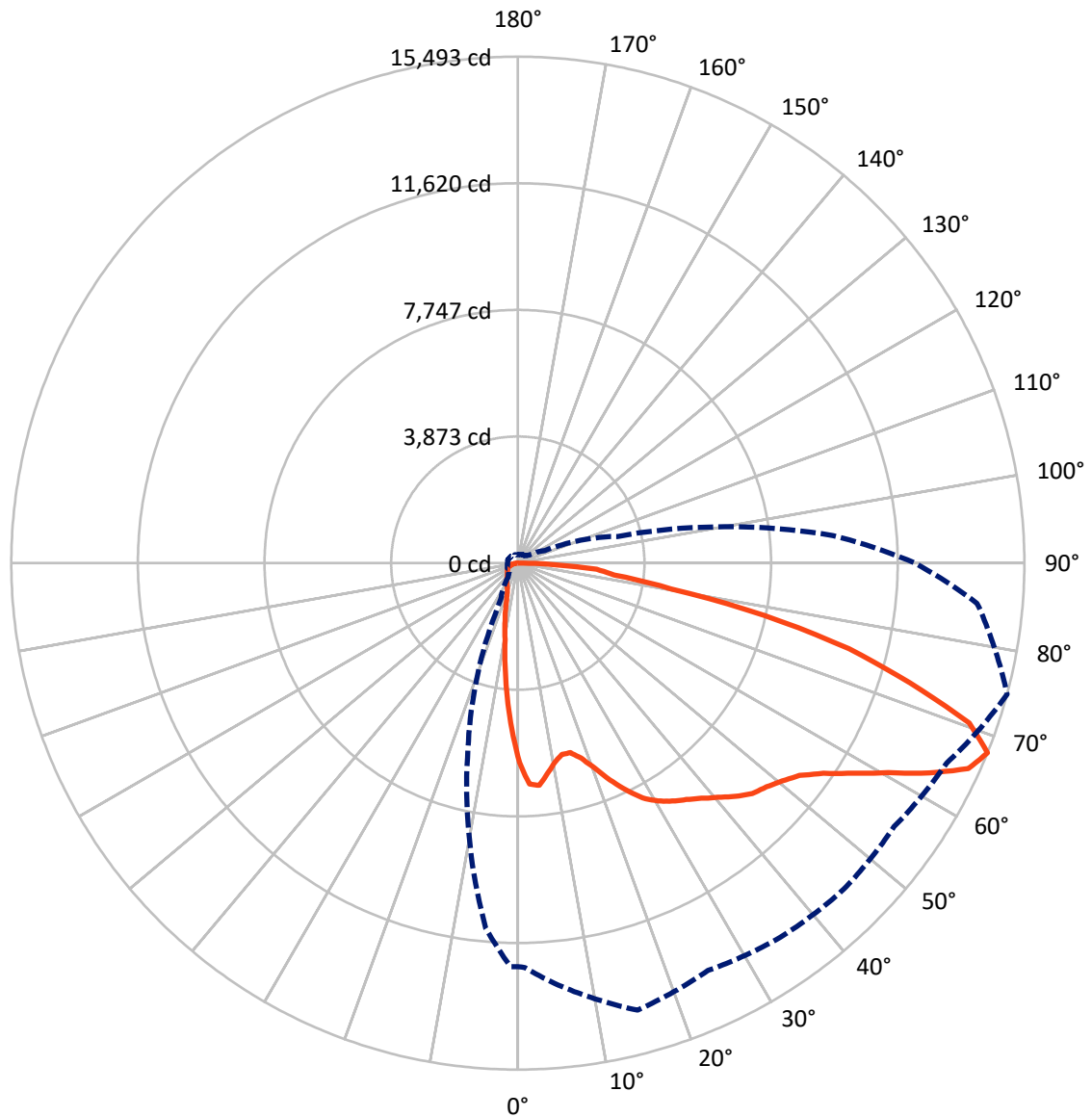
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

REPORT NUMBER: P454843
CATALOG NUMBER: GALN-SA6A-727-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P454843

CATALOG NUMBER: GALN-SA6A-727-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3304.2	0.0	3304.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	16244.8	0.0	16244.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	19549.0	0.0	19549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	2.4
10°-20°	966.1	4.9
20°-30°	1390.2	7.1
30°-40°	2002.3	10.2
40°-50°	2812.7	14.4
50°-60°	3922.8	20.1
60°-70°	4663.9	23.9
70°-80°	2746.8	14.1
80°-90°	580.8	3.0
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°	19549.0	100.0
0°-180°	19549.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454843

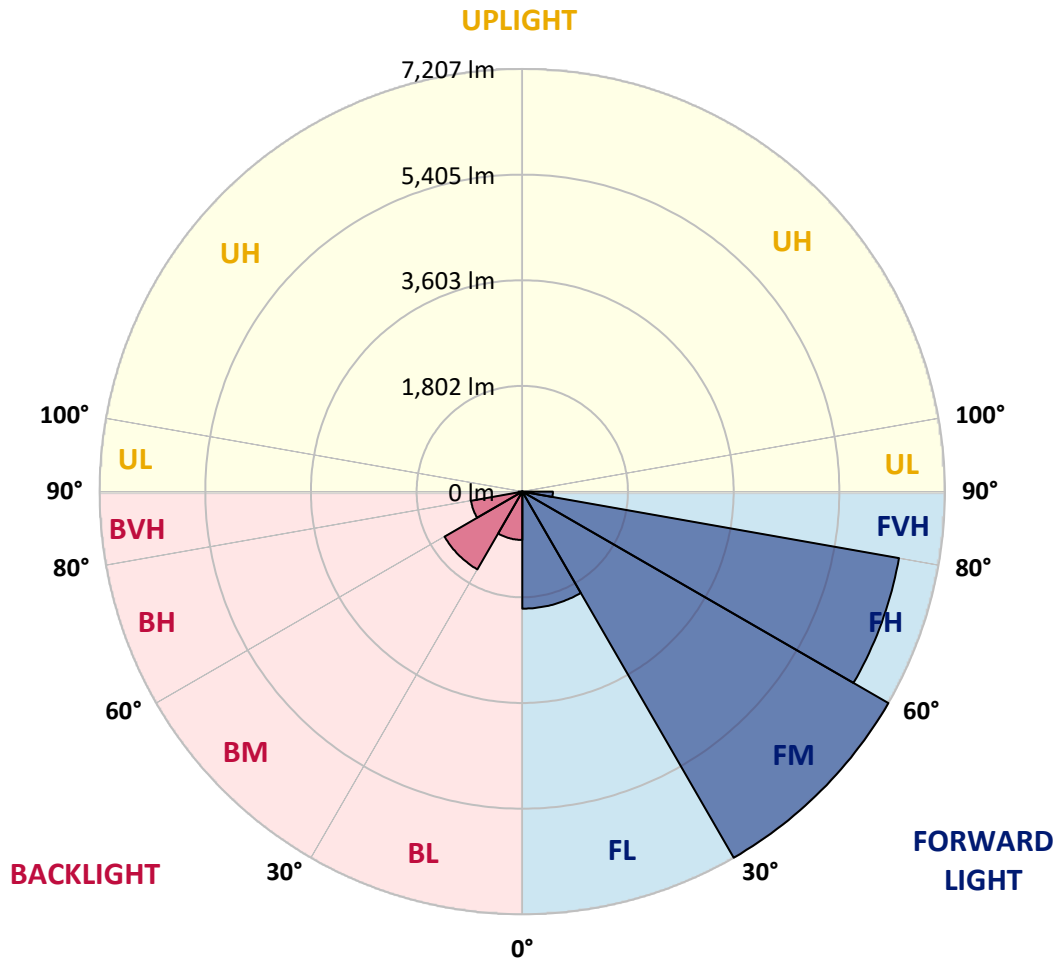
CATALOG NUMBER: GALN-SA6A-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1995.4	10.2			
FM	(30°-60°)	7207.0	36.9			
FH	(60°-80°)	6521.6	33.4			G3/7500
FVH	(80°-90°)	520.8	2.7			G4/750
BL	(0°-30°)	824.2	4.2	B2/1000		
BM	(30°-60°)	1530.8	7.8	B2/2500		
BH	(60°-80°)	889.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	60.1	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-G4

Type III Medium





REPORT NUMBER: P454843
 CATALOG NUMBER: GALN-SA6A-727-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6
2.5°	6585.2	6594.0	6650.4	6814.6	6927.4	6968.8	6997.6	6943.7	6891.1	6763.2	6570.2
5°	6565.1	6616.5	6763.2	7131.8	7422.6	7548.0	7585.6	7423.9	7156.8	6828.4	6433.5
7.5°	6181.5	6250.5	6476.1	7094.2	7606.9	7900.2	7861.4	7569.3	7087.9	6502.5	5950.9
10°	5726.5	5802.9	6075.0	6822.1	7482.8	7886.4	7886.4	7530.4	6891.1	6195.3	5559.7
12.5°	5365.4	5445.7	5756.6	6542.6	7224.5	7606.9	7670.8	7364.9	6749.4	6001.0	5302.8
15°	5246.3	5324.1	5658.8	6373.3	6951.2	7184.4	7205.7	7105.4	6680.5	6014.8	5291.5
17.5°	5394.3	5494.6	5833.0	6423.5	6700.5	6714.3	6730.6	6809.6	6688.0	6266.8	5519.6
20°	5821.7	5929.6	6283.1	6585.2	6481.1	6338.2	6347.0	6550.1	6777.0	6683.0	6064.9
22.5°	6438.5	6532.5	6894.8	6869.8	6388.4	6093.8	6032.4	6315.7	6908.6	7202.0	6645.4
25°	7104.2	7214.5	7630.7	7292.2	6414.7	5948.4	5909.5	6177.8	7045.3	7687.1	7316.0
27.5°	7866.4	7974.2	8302.6	7718.5	6552.6	5937.1	5890.7	6165.2	7168.1	8135.9	7956.6
30°	8433.0	8532.0	8755.2	8077.0	6721.8	6012.3	5954.6	6264.3	7273.4	8443.0	8580.9
32.5°	8878.0	8980.8	9102.4	8300.1	6945.0	6148.9	6042.4	6444.8	7411.3	8677.5	9043.5
35°	9341.9	9463.5	9454.7	8498.2	7153.1	6306.9	6202.8	6705.5	7628.2	8881.8	9630.2
37.5°	9929.8	9978.7	9916.0	8676.2	7402.5	6591.5	6533.8	7092.9	7936.6	9128.8	10315.9
40°	10526.5	10624.3	10302.1	8891.8	7705.9	7126.8	7120.5	7665.8	8302.6	9418.3	10980.3
42.5°	11038.0	11120.7	10663.2	9079.9	8073.2	7779.9	7827.5	8434.3	8782.8	9754.3	11514.4
45°	11422.9	11496.8	10996.6	9261.6	8557.1	8534.6	8815.4	9257.9	9388.3	10056.4	11827.8
47.5°	11750.1	11821.5	11228.6	9537.4	9155.1	9435.9	9924.8	10116.6	9906.0	10229.4	12178.8
50°	12025.8	12047.2	11387.8	9865.9	9897.2	10540.3	11014.2	11138.3	10417.5	10477.6	12483.4
52.5°	12312.9	12285.3	11662.3	10279.6	10699.5	11588.3	11933.1	12062.2	10907.6	10783.5	12927.2
55°	12956.0	12982.3	12277.8	10801.1	11510.6	12617.5	13071.4	12947.2	11450.4	11346.4	13491.3
57.5°	13733.3	13710.7	13144.1	11617.2	12336.7	13575.3	13913.8	13714.5	12175.0	12119.9	14063.0
60°	14035.4	14065.5	13868.6	12494.7	13151.6	14414.0	14760.0	14450.3	13043.8	13018.7	14494.2
62.5°	13732.0	13901.2	14034.1	13275.7	13846.1	15030.7	15374.2	15020.7	13950.1	14131.9	14796.3
65°	13127.8	13164.1	13616.7	13937.6	14180.8	15132.3	15311.5	15123.5	14707.3	15146.1	14782.5
67.5°	12343.0	12374.3	12904.6	14154.5	13749.6	13979.0	14104.3	14049.2	14472.9	15493.3	14101.8
70°	11595.9	11570.8	12131.1	13601.6	11969.4	11620.9	11725.0	11552.0	12488.4	14644.6	12766.7
72.5°	10141.7	10231.9	10833.7	12064.7	9477.3	8910.6	9137.5	8690.0	9605.1	12542.3	10362.3
75°	7944.1	7965.4	8969.6	10125.4	7149.3	6255.5	6562.6	6375.8	7357.4	10462.6	7155.6
77.5°	5500.8	5453.2	6532.5	7733.5	5098.4	4579.4	4584.4	4495.4	5137.3	7703.4	4861.5
80°	3493.8	3421.1	4089.3	4777.5	3503.8	3748.3	3625.4	3621.7	3344.6	4752.4	2939.7
82.5°	1887.9	1968.2	2583.7	2994.9	2513.5	2897.1	2655.1	2577.4	2295.4	2974.8	1880.4
85°	860.0	935.2	1377.7	2037.1	1909.2	1930.6	1290.0	1521.9	1899.2	2415.7	1004.1
87.5°	84.0	107.8	284.6	961.5	651.9	514.0	191.8	369.8	477.6	858.7	80.2
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: P454843

CATALOG NUMBER: GALN-SA6A-727-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6
2.5°	6491.2	6426.0	6204.1	6021.1	5826.8	5678.8	5485.8	5356.7	5267.7	5133.5	5117.2
5°	6192.8	6033.6	5647.5	5253.9	4914.1	4658.4	4398.9	4160.7	4020.3	3976.4	3920.0
7.5°	5690.1	5421.8	4925.4	4474.1	4084.2	3703.2	3409.8	3201.7	3062.6	2981.1	2883.3
10°	5276.4	4965.5	4361.3	3808.5	3487.5	3250.6	2992.4	2769.2	2597.5	2450.8	2370.6
12.5°	4998.1	4647.1	3967.7	3518.9	3270.7	3018.7	2716.6	2465.8	2212.6	2045.9	1974.4
15°	4914.1	4543.1	3846.1	3374.7	3018.7	2689.0	2350.5	2023.3	1772.6	1614.6	1562.0
17.5°	5119.7	4670.9	3844.8	3182.9	2722.8	2329.2	1895.5	1588.3	1331.3	1213.5	1175.9
20°	5503.3	4916.6	3856.1	2993.6	2401.9	1847.8	1379.0	1127.0	1004.1	954.0	935.2
22.5°	6038.6	5291.5	3889.9	2806.8	2050.9	1419.1	1033.0	905.1	861.2	852.5	848.7
25°	6698.0	5755.3	4004.0	2638.8	1755.0	1083.1	863.7	806.1	781.0	772.2	771.0
27.5°	7304.8	6354.5	4141.9	2494.7	1469.2	933.9	781.0	732.1	707.0	705.8	708.3
30°	7852.6	6856.0	4257.2	2333.0	1252.4	829.9	727.1	678.2	654.4	653.1	660.7
32.5°	8326.5	7268.4	4342.5	2173.8	1132.0	766.0	678.2	625.5	605.5	601.7	605.5
35°	8832.9	7679.6	4303.6	2049.6	1063.1	713.3	641.8	590.4	566.6	555.3	555.3
37.5°	9410.8	8103.3	4237.2	1946.9	1031.7	669.4	610.5	560.4	536.5	525.3	524.0
40°	10041.4	8527.0	4145.7	1855.3	1000.4	643.1	589.2	536.5	507.7	496.4	493.9
42.5°	10598.0	8889.3	4070.5	1795.2	949.0	648.1	570.4	519.0	482.6	467.6	466.3
45°	11081.9	9254.1	4056.7	1760.1	906.4	640.6	565.4	505.2	462.6	446.3	443.8
47.5°	11460.5	9634.0	4135.6	1740.0	860.0	600.5	598.0	496.4	445.0	427.5	425.0
50°	11921.8	10173.0	4316.2	1698.6	817.4	562.9	631.8	495.2	431.2	408.7	402.4
52.5°	12536.1	10875.0	4560.6	1624.7	755.9	527.8	603.0	495.2	414.9	392.4	384.9
55°	13465.0	11770.1	4800.1	1520.6	669.4	481.4	544.1	480.1	391.1	371.1	366.1
57.5°	14080.5	12424.5	4953.0	1376.5	561.6	447.5	468.8	456.3	367.3	346.0	346.0
60°	14111.8	12600.0	4880.3	1194.7	493.9	416.2	407.4	460.1	346.0	323.4	320.9
62.5°	13750.8	12170.0	4501.7	1031.7	457.6	382.3	368.6	403.7	324.7	302.1	298.4
65°	13186.7	11073.1	3844.8	954.0	437.5	352.3	332.2	331.0	302.1	280.8	275.8
67.5°	12150.0	9676.6	3159.1	908.9	427.5	318.4	299.6	293.3	275.8	258.2	255.7
70°	10621.8	8104.6	2533.5	890.1	422.5	283.3	268.3	260.8	245.7	231.9	230.7
72.5°	8263.8	6573.9	2091.0	877.5	420.0	250.7	234.4	224.4	215.6	203.1	203.1
75°	5935.8	4836.4	1595.8	791.0	388.6	215.6	198.1	191.8	179.3	169.2	171.7
77.5°	3742.0	3256.9	1050.5	581.7	300.9	173.0	158.0	154.2	144.2	130.4	139.2
80°	2527.3	2290.3	613.0	366.1	189.3	126.6	121.6	120.3	109.1	94.0	95.3
82.5°	1719.9	1687.4	318.4	208.1	109.1	74.0	71.5	74.0	61.4	50.1	50.1
85°	671.9	917.6	150.4	81.5	35.1	11.3	16.3	17.6	10.0	5.0	6.3
87.5°	12.5	94.0	3.8	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: P454843

CATALOG NUMBER: GALN-SA6A-727-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6
2.5°	5092.1	5080.9	5099.7	5019.4	5035.7	5065.8	5080.9	5089.6	5213.7	5184.9	5263.9
5°	3972.7	3961.4	4034.1	4044.1	4081.7	4074.2	4110.6	4119.4	4164.5	4180.8	4291.1
7.5°	2889.6	2938.5	3021.2	3063.8	3127.7	3147.8	3129.0	3175.4	3081.4	3149.1	3169.1
10°	2321.7	2262.8	2227.7	2325.4	2338.0	2430.7	2393.1	2363.0	2418.2	2420.7	2473.4
12.5°	1933.1	1806.4	1722.5	1750.0	1780.1	1820.2	1826.5	1886.7	1926.8	1964.4	1995.7
15°	1515.6	1471.7	1395.3	1357.7	1400.3	1416.6	1455.4	1505.6	1548.2	1559.5	1602.1
17.5°	1163.3	1170.9	1158.3	1135.8	1162.1	1174.6	1177.1	1178.4	1189.7	1182.2	1244.8
20°	936.4	962.8	994.1	999.1	1007.9	1014.2	1002.9	960.3	961.5	987.8	1007.9
22.5°	847.4	852.5	887.6	898.8	926.4	915.1	882.5	862.5	860.0	866.2	876.3
25°	777.2	784.8	809.8	827.4	848.7	828.6	804.8	786.0	783.5	789.8	799.8
27.5°	714.6	725.8	748.4	766.0	786.0	767.2	744.6	728.3	727.1	725.8	732.1
30°	664.4	676.9	693.2	713.3	727.1	710.8	689.5	680.7	679.5	676.9	679.5
32.5°	614.3	634.3	650.6	660.7	674.4	661.9	645.6	640.6	631.8	624.3	620.5
35°	557.9	579.2	604.2	616.8	630.6	618.0	606.7	585.4	570.4	569.1	571.6
37.5°	525.3	534.0	554.1	575.4	589.2	582.9	561.6	540.3	536.5	536.5	539.1
40°	496.4	500.2	509.0	536.5	561.6	542.8	516.5	510.2	510.2	509.0	510.2
42.5°	467.6	471.4	471.4	492.7	532.8	502.7	482.6	482.6	482.6	483.9	487.7
45°	441.3	442.5	441.3	456.3	493.9	468.8	455.1	458.8	461.3	463.8	466.3
47.5°	418.7	420.0	418.7	431.2	450.0	440.0	432.5	437.5	442.5	446.3	448.8
50°	398.6	397.4	399.9	407.4	416.2	418.7	413.7	421.2	423.7	428.7	435.0
52.5°	381.1	379.8	382.3	386.1	398.6	398.6	398.6	404.9	409.9	414.9	423.7
55°	361.0	362.3	366.1	371.1	387.4	384.9	386.1	391.1	396.1	403.7	408.7
57.5°	342.2	344.7	349.8	357.3	373.6	372.3	373.6	376.1	382.3	386.1	391.1
60°	320.9	325.9	332.2	337.2	353.5	352.3	358.5	363.5	367.3	367.3	369.8
62.5°	299.6	307.1	313.4	317.2	334.7	336.0	344.7	348.5	351.0	348.5	352.3
65°	278.3	289.6	292.1	297.1	314.7	315.9	325.9	334.7	332.2	329.7	336.0
67.5°	257.0	270.8	269.5	275.8	293.3	295.9	304.6	319.7	314.7	312.1	317.2
70°	233.2	243.2	244.5	248.2	272.0	268.3	282.1	295.9	292.1	293.3	293.3
72.5°	206.8	215.6	215.6	223.1	248.2	241.9	253.2	268.3	268.3	267.0	267.0
75°	175.5	180.5	185.5	196.8	223.1	215.6	223.1	236.9	239.4	236.9	236.9
77.5°	141.7	149.2	151.7	166.7	185.5	184.3	191.8	198.1	203.1	200.6	200.6
80°	100.3	107.8	117.8	134.1	145.4	149.2	152.9	158.0	160.5	160.5	163.0
82.5°	56.4	67.7	76.5	92.8	97.8	116.6	115.3	119.1	115.3	101.5	112.8
85°	12.5	23.8	33.8	42.6	48.9	67.7	71.5	80.2	66.4	61.4	61.4
87.5°	0.0	0.0	0.0	0.0	0.0	10.0	20.1	27.6	23.8	20.1	20.1
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: P454843
 CATALOG NUMBER: GALN-SA6A-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6	6107.6
2.5°	5330.3	5439.4	5571.0	5797.9	5957.1	6128.9	6301.9	6486.2	6535.0	6585.2
5°	4321.2	4535.5	4652.1	4956.8	5276.4	5682.6	6014.8	6378.3	6530.0	6565.1
7.5°	3273.2	3418.6	3724.5	4032.9	4429.0	4855.2	5364.2	5930.8	6107.6	6181.5
10°	2595.0	2793.0	3061.3	3392.3	3739.5	4198.3	4772.5	5434.4	5685.1	5726.5
12.5°	2208.9	2429.5	2721.6	3071.3	3399.8	3745.8	4324.9	5008.2	5276.4	5365.4
15°	1766.3	2033.3	2370.6	2739.1	3096.4	3475.0	4061.7	4832.7	5142.3	5246.3
17.5°	1387.7	1603.4	1968.2	2368.1	2791.8	3270.7	4006.5	4916.6	5297.7	5394.3
20°	1061.8	1216.0	1523.1	1945.6	2442.0	3068.8	4020.3	5233.8	5690.1	5821.7
22.5°	917.6	996.6	1183.4	1585.8	2141.2	2893.3	4076.7	5668.8	6219.1	6438.5
25°	831.1	872.5	977.8	1241.1	1854.1	2722.8	4205.8	6254.2	6958.8	7104.2
27.5°	757.2	787.3	852.5	1041.7	1593.3	2564.9	4356.3	6903.6	7649.5	7866.4
30°	687.0	727.1	788.5	925.2	1426.6	2420.7	4545.6	7430.1	8231.2	8433.0
32.5°	633.1	673.2	729.6	843.7	1284.9	2269.0	4658.4	7892.7	8706.3	8878.0
35°	589.2	623.0	682.0	778.5	1177.1	2153.7	4635.8	8260.0	9166.4	9341.9
37.5°	557.9	586.7	645.6	717.1	1095.7	2033.3	4624.6	8745.2	9726.7	9929.8
40°	529.0	559.1	613.0	676.9	1014.2	1891.7	4630.8	9226.5	10323.4	10526.5
42.5°	506.5	540.3	584.2	665.7	930.2	1777.6	4630.8	9645.2	10842.4	11038.0
45°	487.7	524.0	566.6	664.4	863.7	1691.1	4599.5	10005.0	11256.1	11422.9
47.5°	471.4	511.5	572.9	641.8	847.4	1628.4	4571.9	10293.4	11593.4	11750.1
50°	460.1	507.7	609.3	615.5	852.5	1609.6	4704.8	10656.9	11890.5	12025.8
52.5°	451.3	509.0	608.0	576.7	843.7	1622.2	4981.8	11224.8	12302.9	12312.9
55°	433.7	507.7	576.7	532.8	807.3	1643.5	5337.9	12049.7	12948.5	12956.0
57.5°	416.2	493.9	535.3	495.2	733.4	1643.5	5766.6	12830.7	13727.0	13733.3
60°	398.6	514.0	470.1	462.6	636.8	1613.4	6219.1	13174.1	13971.4	14035.4
62.5°	381.1	517.7	420.0	433.7	566.6	1540.7	6556.4	12794.3	13640.5	13732.0
65°	361.0	417.5	387.4	403.7	530.3	1419.1	6449.8	12098.6	13018.7	13127.8
67.5°	337.2	353.5	352.3	372.3	517.7	1239.8	5888.2	11218.5	12349.3	12343.0
70°	308.4	317.2	320.9	342.2	493.9	1100.7	4906.6	10076.5	11455.5	11595.9
72.5°	278.3	285.8	289.6	308.4	470.1	1021.7	3808.5	8503.2	9922.3	10141.7
75°	245.7	250.7	255.7	272.0	445.0	905.1	2712.8	6491.2	7599.4	7944.1
77.5°	211.9	211.9	218.1	234.4	374.8	747.1	1820.2	4553.1	5148.6	5500.8
80°	171.7	173.0	170.5	188.0	275.8	511.5	1034.2	3041.2	3426.1	3493.8
82.5°	131.6	127.9	129.1	137.9	205.6	348.5	551.6	1889.2	1925.5	1887.9
85°	82.7	82.7	80.2	90.3	131.6	181.8	300.9	1157.1	903.9	860.0
87.5°	33.8	27.6	31.3	36.4	62.7	74.0	117.8	238.2	91.5	84.0
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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