

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: P527533

Luminaire Tested: **GALN-SA2C-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7816 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

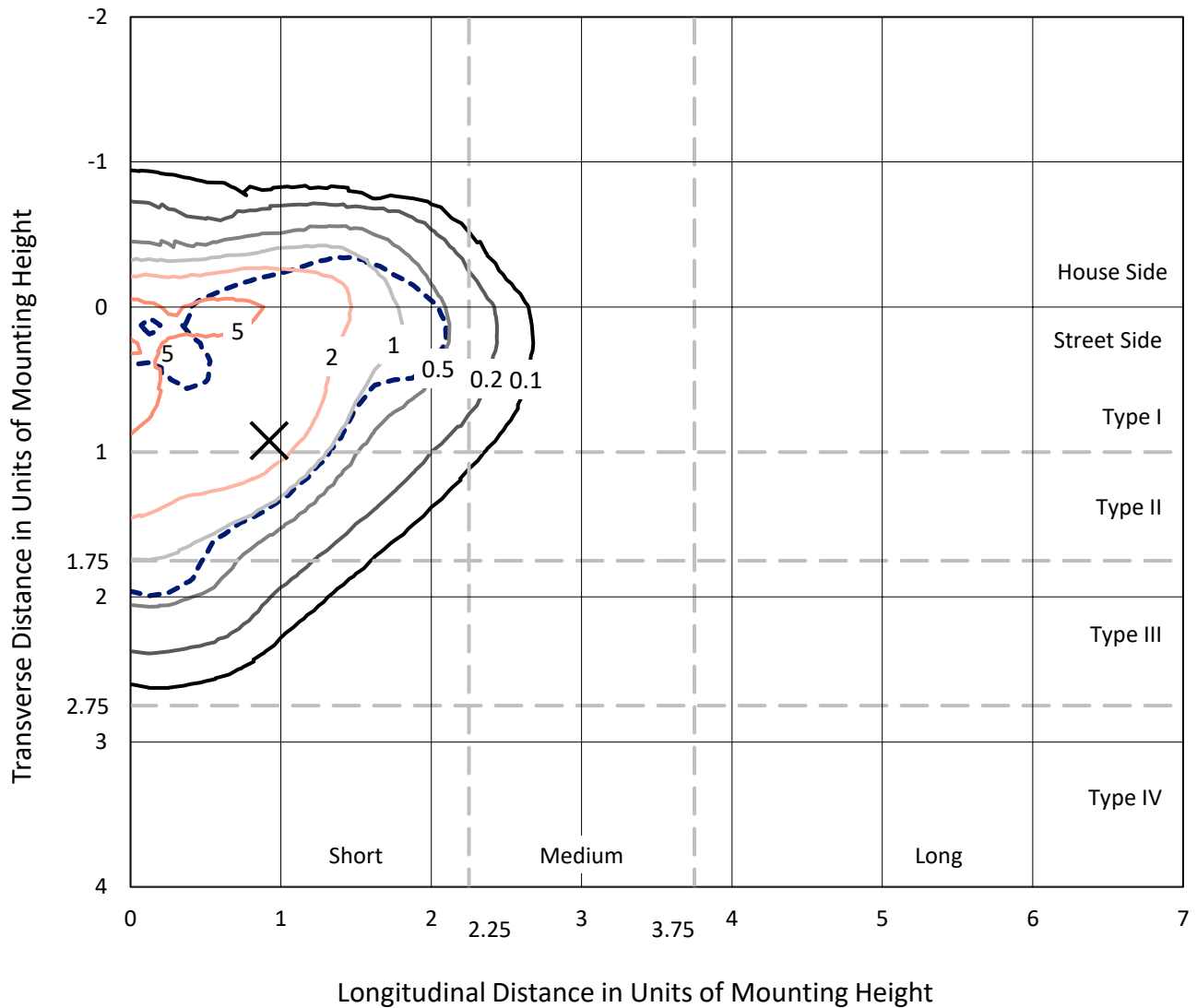
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527533
 CATALOG NUMBER: GALN-SA2C-740-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

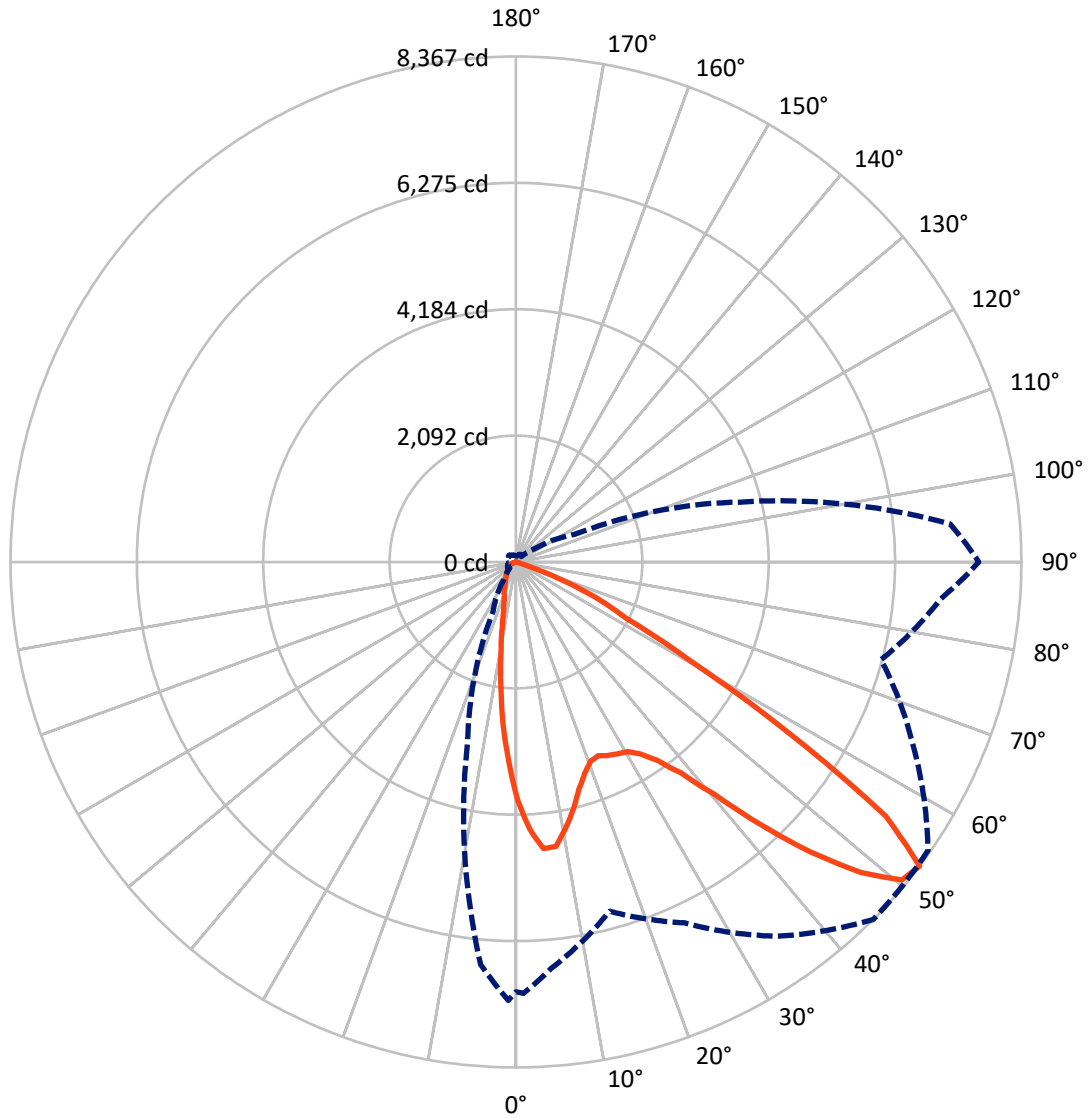
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P527533
CATALOG NUMBER: GALN-SA2C-740-U-SLL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.3	0.0	1586.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6229.7	0.0	6229.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	7816.0	0.0	7816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	3.7
10°-20°	570.2	7.3
20°-30°	867.8	11.1
30°-40°	1297.0	16.6
40°-50°	1847.1	23.6
50°-60°	1985.5	25.4
60°-70°	879.8	11.3
70°-80°	71.2	0.9
80°-90°	8.3	0.1
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°	7816.0	100.0
0°-180°	7816.0	100.0

Coefficient of Utilization

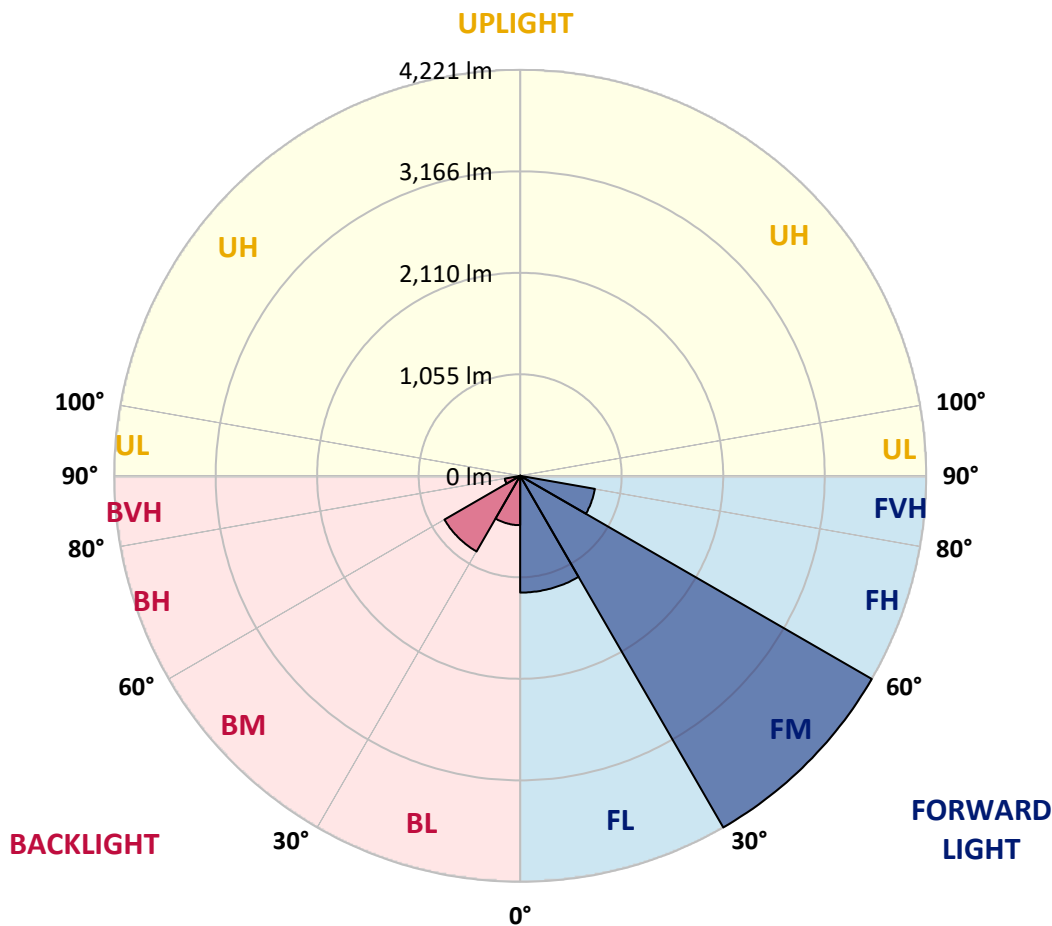


REPORT NUMBER: P527533
 CATALOG NUMBER: GALN-SA2C-740-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.0	15.5			
FM (30°-60°)	4220.9	54.0			
FH (60°-80°)	788.7	10.1			G1/1800
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	513.1	6.6	B2/1000		
BM (30°-60°)	908.8	11.6	B1/1000		
BH (60°-80°)	162.3	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





REPORT NUMBER: P527533

CATALOG NUMBER: GALN-SA2C-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1
2.5°	4193.7	4206.0	4273.6	4358.2	4402.7	4504.2	4433.5	4451.9	4413.5	4278.2	4172.1
5°	4066.1	4064.5	4150.6	4359.7	4558.0	4759.4	4765.5	4657.9	4468.8	4261.3	3964.6
7.5°	3681.8	3741.7	3830.9	4164.5	4531.9	4682.5	4754.8	4628.7	4338.2	4041.5	3720.2
10°	3391.2	3422.0	3572.6	3975.4	4244.4	4445.8	4490.4	4418.1	4195.2	3824.7	3465.0
12.5°	3223.6	3239.0	3415.8	3754.0	4038.4	4187.5	4209.0	4242.9	4083.0	3735.6	3303.6
15°	3225.2	3237.5	3475.8	3758.6	3870.8	3830.9	3901.6	3900.0	3969.2	3718.6	3438.9
17.5°	3457.3	3471.1	3686.4	3826.3	3777.1	3683.3	3678.7	3749.4	3895.4	3929.3	3643.3
20°	3857.0	3889.3	4047.6	4039.9	3763.2	3574.1	3521.9	3575.7	3915.4	4107.6	4055.3
22.5°	4395.0	4439.6	4550.3	4338.2	3826.3	3500.4	3483.4	3588.0	4047.6	4505.7	4522.6
25°	5019.2	5094.5	5148.3	4876.2	4050.7	3628.0	3548.0	3727.9	4225.9	4937.7	5117.6
27.5°	5432.7	5511.1	5498.8	5109.9	4201.4	3661.8	3594.1	3761.7	4381.2	5040.7	5428.1
30°	5755.5	5803.2	5889.3	5235.9	4352.0	3757.1	3641.8	3904.7	4431.9	5219.0	5803.2
32.5°	6132.2	6164.4	6170.6	5458.8	4584.1	3877.0	3789.4	4083.0	4656.4	5389.7	6135.2
35°	6511.9	6559.5	6459.6	5734.0	4727.1	4099.9	4035.3	4392.0	4836.2	5566.4	6501.1
37.5°	6923.9	6948.4	6717.9	5847.8	4931.6	4462.7	4427.3	4725.6	5148.3	5886.2	6906.9
40°	7269.7	7292.8	6993.0	5987.7	5146.8	4970.0	5060.7	5362.0	5572.6	6093.7	7109.9
42.5°	7461.9	7515.7	7085.3	5910.8	5578.7	5544.9	5947.7	6053.8	6064.5	6152.1	7291.3
45°	7514.2	7489.6	6933.1	5973.8	5956.9	6490.3	6856.2	6996.1	6553.4	6259.8	7337.4
47.5°	7272.8	7305.1	6708.6	5918.5	6453.4	7206.7	7680.2	7940.0	6917.7	6166.0	7223.6
50°	7077.6	7036.1	6636.4	5878.5	6587.2	7544.9	8275.1	8333.5	7252.8	6281.3	7099.1
52.5°	7116.0	7142.1	6751.7	5984.6	6590.3	7564.9	8367.3	8327.4	7263.6	6255.1	7054.5
55°	7197.5	7082.2	6702.5	5750.9	6149.1	7006.9	7426.5	7365.0	6704.0	5976.9	6945.4
57.5°	6210.6	6388.9	6162.9	5134.5	5046.8	5279.0	5271.3	5460.4	5000.7	5143.7	6322.8
60°	5040.7	5071.4	5156.0	4392.0	3492.7	3412.7	3302.1	3182.1	3365.1	4398.1	5750.9
62.5°	4433.5	4396.6	4697.9	3995.4	2465.8	2064.6	2046.1	2119.9	2596.4	4195.2	5394.3
65°	3222.1	3268.2	3486.5	3100.7	1850.9	1575.7	1548.0	1766.3	2101.4	3362.0	4116.8
67.5°	1967.7	2056.9	2076.8	1912.4	1255.9	997.7	957.7	1156.0	1517.3	2175.2	2413.5
70°	908.5	1016.1	1117.6	1043.8	727.1	410.5	387.4	485.8	765.6	1251.3	1280.5
72.5°	275.2	276.7	387.4	404.3	235.2	92.2	81.5	107.6	259.8	413.5	435.0
75°	20.0	21.5	52.3	60.0	44.6	23.1	24.6	29.2	55.3	92.2	69.2
77.5°	1.5	1.5	1.5	7.7	13.8	15.4	20.0	23.1	29.2	33.8	30.7
80°	1.5	0.0	1.5	6.1	10.8	15.4	18.4	21.5	23.1	26.1	23.1
82.5°	0.0	0.0	0.0	4.6	10.8	15.4	16.9	23.1	26.1	30.7	26.1
85°	0.0	0.0	0.0	4.6	10.8	16.9	15.4	7.7	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: P527533

CATALOG NUMBER: GALN-SA2C-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1
2.5°	4190.6	4130.6	3993.8	3924.6	3761.7	3738.6	3578.8	3552.6	3498.8	3469.6	3398.9
5°	3833.9	3761.7	3538.8	3351.2	3133.0	2980.8	2863.9	2757.9	2696.4	2639.5	2665.6
7.5°	3543.4	3332.8	3085.3	2771.7	2519.6	2356.6	2178.3	2032.3	1946.2	1887.8	1901.6
10°	3239.0	3102.2	2757.9	2405.8	2101.4	1986.1	1846.3	1734.0	1612.6	1508.1	1458.9
12.5°	3143.7	2940.8	2508.8	2150.6	1920.0	1807.8	1648.0	1518.8	1363.6	1236.0	1191.4
15°	3160.6	2965.4	2441.2	2058.4	1786.3	1592.6	1402.0	1242.1	1071.5	982.3	936.2
17.5°	3435.8	3097.6	2485.8	1961.6	1600.3	1331.3	1096.1	893.2	765.6	673.3	653.3
20°	3774.0	3383.5	2581.1	1890.8	1448.1	1059.2	800.9	625.7	519.6	504.2	499.6
22.5°	4269.0	3850.9	2785.5	1843.2	1262.1	825.5	548.8	455.0	425.8	422.7	424.3
25°	4960.8	4436.6	3008.4	1803.2	1122.2	636.4	448.9	385.9	376.6	372.0	379.7
27.5°	5260.5	4790.1	3126.8	1717.1	994.6	573.4	442.7	382.8	356.6	349.0	353.6
30°	5631.0	5025.3	3312.8	1569.5	807.1	471.9	413.5	416.6	404.3	365.9	353.6
32.5°	6122.9	5318.9	3406.6	1465.0	721.0	390.5	302.8	278.2	310.5	316.7	327.4
35°	6438.1	5617.2	3454.2	1403.5	676.4	333.6	256.7	233.7	226.0	227.5	233.7
37.5°	7023.8	6019.9	3514.2	1339.0	642.6	290.5	232.1	210.6	199.8	199.8	206.0
40°	7374.3	6339.7	3595.7	1303.6	608.8	264.4	210.6	192.2	182.9	182.9	186.0
42.5°	7461.9	6498.0	3568.0	1291.3	570.3	258.3	192.2	178.3	167.6	166.0	164.5
45°	7618.7	6739.4	3572.6	1277.5	530.4	235.2	181.4	166.0	150.7	149.1	147.6
47.5°	7790.9	6913.1	3581.8	1223.7	491.9	196.8	189.1	153.7	135.3	132.2	132.2
50°	7643.3	7051.4	3661.8	1169.9	442.7	159.9	186.0	144.5	119.9	115.3	116.8
52.5°	7661.7	7214.4	3830.9	1094.5	381.2	127.6	150.7	136.8	109.1	101.5	103.0
55°	7366.6	7042.2	3853.9	1014.6	298.2	98.4	115.3	119.9	92.2	89.2	89.2
57.5°	6341.2	5963.1	3400.4	822.4	196.8	81.5	83.0	104.5	79.9	76.9	78.4
60°	5426.6	4787.1	2736.3	542.7	123.0	64.6	60.0	106.1	70.7	69.2	73.8
62.5°	4946.9	3933.9	2075.3	336.7	84.5	49.2	41.5	86.1	61.5	61.5	67.6
65°	3574.1	2642.6	1206.8	176.8	60.0	38.4	30.7	49.2	50.7	52.3	55.3
67.5°	2213.7	1334.3	508.8	86.1	40.0	26.1	20.0	30.7	33.8	33.8	36.9
70°	1093.0	531.9	169.1	49.2	30.7	21.5	13.8	16.9	16.9	15.4	16.9
72.5°	338.2	159.9	43.0	30.7	21.5	13.8	7.7	6.1	3.1	0.0	1.5
75°	38.4	30.7	27.7	21.5	13.8	6.1	1.5	0.0	0.0	0.0	0.0
77.5°	23.1	26.1	26.1	21.5	13.8	4.6	0.0	0.0	0.0	0.0	0.0
80°	18.4	20.0	21.5	20.0	12.3	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	23.1	26.1	29.2	26.1	16.9	7.7	3.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.6	1.5	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: P527533

CATALOG NUMBER: GALN-SA2C-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1
2.5°	3369.7	3335.9	3383.5	3312.8	3311.3	3312.8	3292.8	3274.4	3303.6	3382.0	3389.7
5°	2571.8	2644.1	2667.2	2742.5	2701.0	2639.5	2651.8	2610.3	2711.7	2756.3	2721.0
7.5°	1872.4	1867.8	2023.0	2032.3	2052.3	2053.8	2050.7	1969.2	1886.2	1904.7	1960.0
10°	1452.7	1374.3	1449.6	1442.0	1491.1	1477.3	1497.3	1409.7	1438.9	1438.9	1474.2
12.5°	1183.7	1100.7	1086.8	1066.9	1086.8	1094.5	1102.2	1085.3	1134.5	1157.6	1182.2
15°	903.9	857.8	845.5	807.1	813.2	834.7	853.2	860.9	845.5	880.9	883.9
17.5°	656.4	654.9	662.6	661.0	654.9	650.3	648.7	628.7	622.6	625.7	638.0
20°	498.1	510.4	536.5	562.6	576.5	559.6	536.5	502.7	488.9	491.9	493.5
22.5°	425.8	444.3	479.6	508.8	522.7	491.9	450.4	421.2	415.1	413.5	412.0
25°	385.9	407.4	433.5	442.7	441.2	422.7	392.0	379.7	376.6	373.6	359.7
27.5°	364.3	372.0	376.6	387.4	392.0	379.7	372.0	353.6	350.5	350.5	341.3
30°	352.0	347.4	353.6	345.9	352.0	342.8	344.3	344.3	336.7	339.7	339.7
32.5°	327.4	329.0	329.0	313.6	318.2	307.5	318.2	327.4	329.0	330.5	342.8
35°	239.8	267.5	281.3	281.3	285.9	278.2	276.7	265.9	252.1	238.3	232.1
37.5°	210.6	221.4	239.8	250.6	258.3	252.1	238.3	221.4	213.7	207.5	201.4
40°	187.5	196.8	209.1	221.4	236.7	229.1	207.5	199.8	190.6	190.6	184.5
42.5°	169.1	173.7	181.4	199.8	216.8	201.4	186.0	179.9	175.2	173.7	172.2
45°	152.2	153.7	161.4	176.8	196.8	181.4	166.0	158.3	159.9	161.4	159.9
47.5°	136.8	139.9	144.5	163.0	175.2	167.6	150.7	146.0	146.0	146.0	147.6
50°	118.4	126.1	135.3	150.7	159.9	155.3	141.4	135.3	132.2	132.2	133.7
52.5°	106.1	112.2	124.5	143.0	155.3	147.6	133.7	124.5	118.4	116.8	119.9
55°	92.2	103.0	123.0	136.8	153.7	146.0	130.7	119.9	109.1	107.6	107.6
57.5°	83.0	99.9	118.4	135.3	149.1	143.0	130.7	116.8	103.0	101.5	101.5
60°	78.4	96.8	115.3	130.7	149.1	139.9	129.1	113.8	98.4	98.4	96.8
62.5°	73.8	90.7	109.1	124.5	143.0	135.3	124.5	109.1	93.8	93.8	90.7
65°	61.5	78.4	90.7	104.5	124.5	116.8	106.1	95.3	83.0	79.9	81.5
67.5°	43.0	53.8	66.1	79.9	92.2	89.2	84.5	76.9	66.1	64.6	63.0
70°	21.5	29.2	40.0	53.8	64.6	61.5	58.4	52.3	46.1	44.6	44.6
72.5°	3.1	9.2	16.9	24.6	33.8	35.4	33.8	32.3	30.7	29.2	30.7
75°	0.0	0.0	0.0	6.1	13.8	16.9	20.0	23.1	23.1	20.0	24.6
77.5°	0.0	0.0	0.0	0.0	1.5	7.7	15.4	20.0	24.6	21.5	29.2
80°	0.0	0.0	0.0	0.0	1.5	9.2	15.4	21.5	24.6	21.5	30.7
82.5°	0.0	0.0	0.0	0.0	1.5	10.8	15.4	20.0	23.1	21.5	27.7
85°	0.0	0.0	0.0	0.0	4.6	9.2	6.1	3.1	1.5	1.5	4.6
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: P527533

CATALOG NUMBER: GALN-SA2C-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1	3963.1
2.5°	3432.7	3541.9	3658.7	3703.3	3841.6	3946.2	4016.9	4169.1	4192.1	4193.7
5°	2757.9	2813.2	3013.0	3106.8	3312.8	3472.7	3643.3	3889.3	4053.8	4066.1
7.5°	1960.0	2113.7	2198.3	2442.7	2696.4	2946.9	3200.6	3486.5	3677.1	3681.8
10°	1577.2	1677.2	1827.8	2010.7	2224.4	2479.6	2817.8	3149.9	3343.6	3391.2
12.5°	1269.8	1445.0	1617.2	1806.3	1969.2	2161.4	2525.7	2968.5	3128.3	3223.6
15°	977.7	1137.6	1340.5	1561.9	1746.3	2003.1	2418.1	2923.9	3192.9	3225.2
17.5°	721.0	863.9	1051.5	1260.6	1537.3	1901.6	2436.6	3149.9	3403.5	3457.3
20°	518.1	601.1	748.6	991.5	1343.6	1783.2	2455.0	3378.9	3764.8	3857.0
22.5°	410.5	444.3	541.1	756.3	1126.8	1658.7	2585.7	3817.0	4261.3	4395.0
25°	356.6	375.1	421.2	596.5	990.0	1646.4	2794.8	4342.8	4922.3	5019.2
27.5°	344.3	347.4	387.4	547.3	916.2	1564.9	2874.7	4716.3	5334.3	5432.7
30°	362.8	412.0	415.1	462.7	779.4	1403.5	2916.2	5077.6	5683.3	5755.5
32.5°	313.6	298.2	309.0	358.2	685.6	1309.8	2994.6	5392.7	6081.4	6132.2
35°	218.3	229.1	253.6	310.5	599.5	1211.4	3014.6	5740.2	6459.6	6511.9
37.5°	201.4	207.5	227.5	264.4	527.3	1156.0	2986.9	5993.8	6851.6	6923.9
40°	187.5	195.2	206.0	239.8	473.5	1094.5	2948.5	6222.9	7091.4	7269.7
42.5°	176.8	182.9	192.2	229.1	427.4	1033.0	2894.7	6545.7	7306.6	7461.9
45°	164.5	173.7	184.5	222.9	401.2	991.5	2854.7	6525.7	7431.2	7514.2
47.5°	152.2	167.6	179.9	207.5	393.5	971.6	2871.6	6450.4	7329.7	7272.8
50°	139.9	159.9	181.4	172.2	375.1	931.6	2891.6	6553.4	7088.3	7077.6
52.5°	129.1	152.2	169.1	141.4	333.6	893.2	3085.3	6688.7	7259.0	7116.0
55°	113.8	136.8	135.3	113.8	270.6	863.9	3237.5	6691.7	7143.7	7197.5
57.5°	103.0	121.4	106.1	95.3	199.8	722.5	2990.0	5611.0	6115.2	6210.6
60°	95.3	118.4	79.9	75.3	130.7	521.1	2610.3	4345.9	4860.8	5040.7
62.5°	87.6	112.2	63.0	61.5	90.7	370.5	2146.0	3637.2	4189.1	4433.5
65°	76.9	79.9	50.7	47.7	64.6	199.8	1306.7	2504.2	3131.4	3222.1
67.5°	63.0	61.5	41.5	38.4	43.0	96.8	576.5	1254.4	1815.5	1967.7
70°	50.7	50.7	35.4	30.7	30.7	44.6	150.7	499.6	820.9	908.5
72.5°	36.9	38.4	27.7	24.6	23.1	21.5	24.6	99.9	215.2	275.2
75°	32.3	33.8	27.7	21.5	16.9	13.8	10.8	9.2	12.3	20.0
77.5°	35.4	35.4	29.2	20.0	15.4	10.8	6.1	3.1	3.1	1.5
80°	44.6	46.1	38.4	26.1	18.4	12.3	7.7	3.1	1.5	1.5
82.5°	47.7	52.3	43.0	32.3	23.1	13.8	7.7	1.5	0.0	0.0
85°	12.3	20.0	33.8	29.2	23.1	13.8	7.7	1.5	0.0	0.0
87.5°	0.0	1.5	4.6	4.6	6.1	6.1	4.6	1.5	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

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