

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: P454495

Luminaire Tested: **GALN-SA5C-760-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454495
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-SA5C-760-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA 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: 30348 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

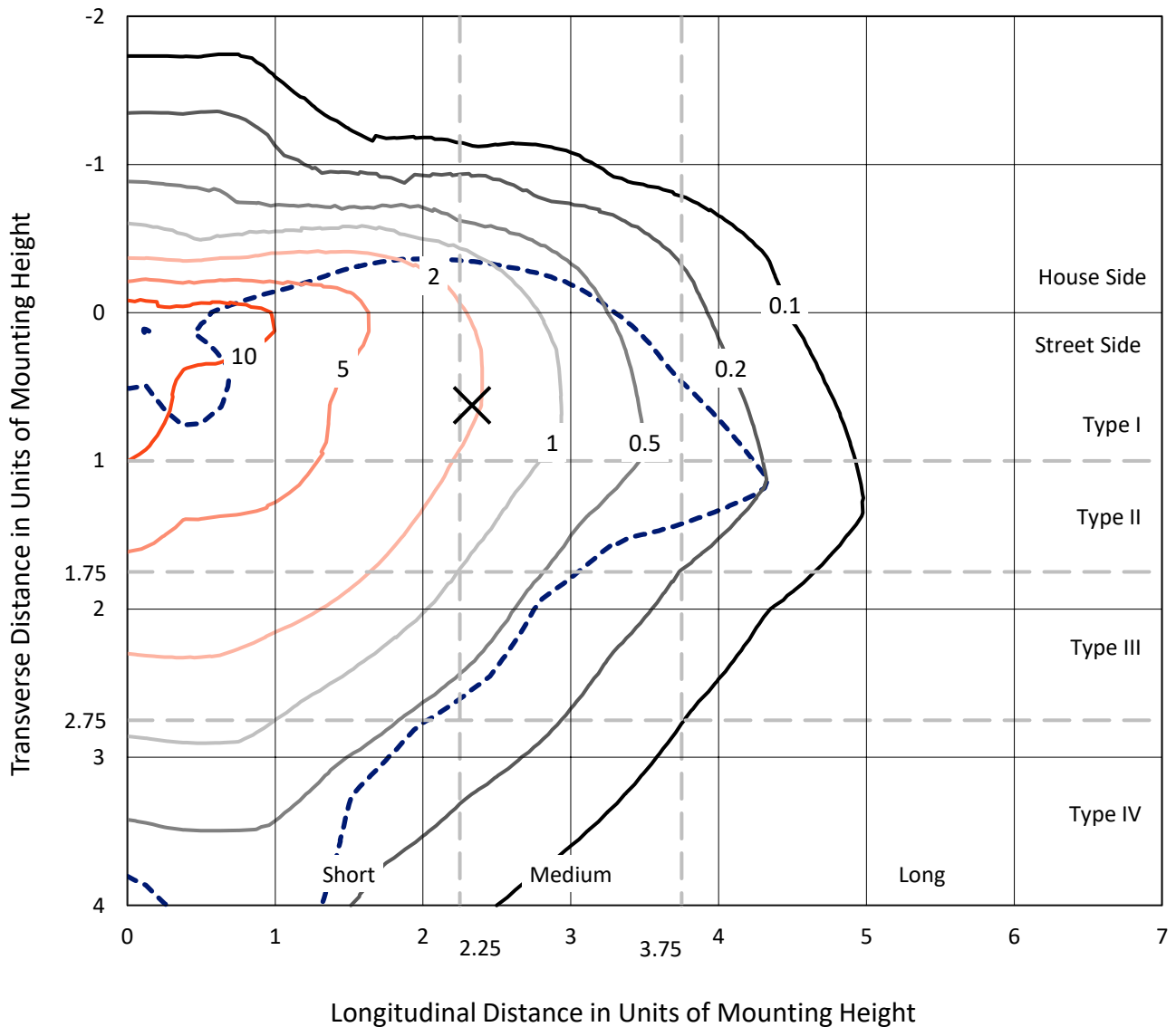
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

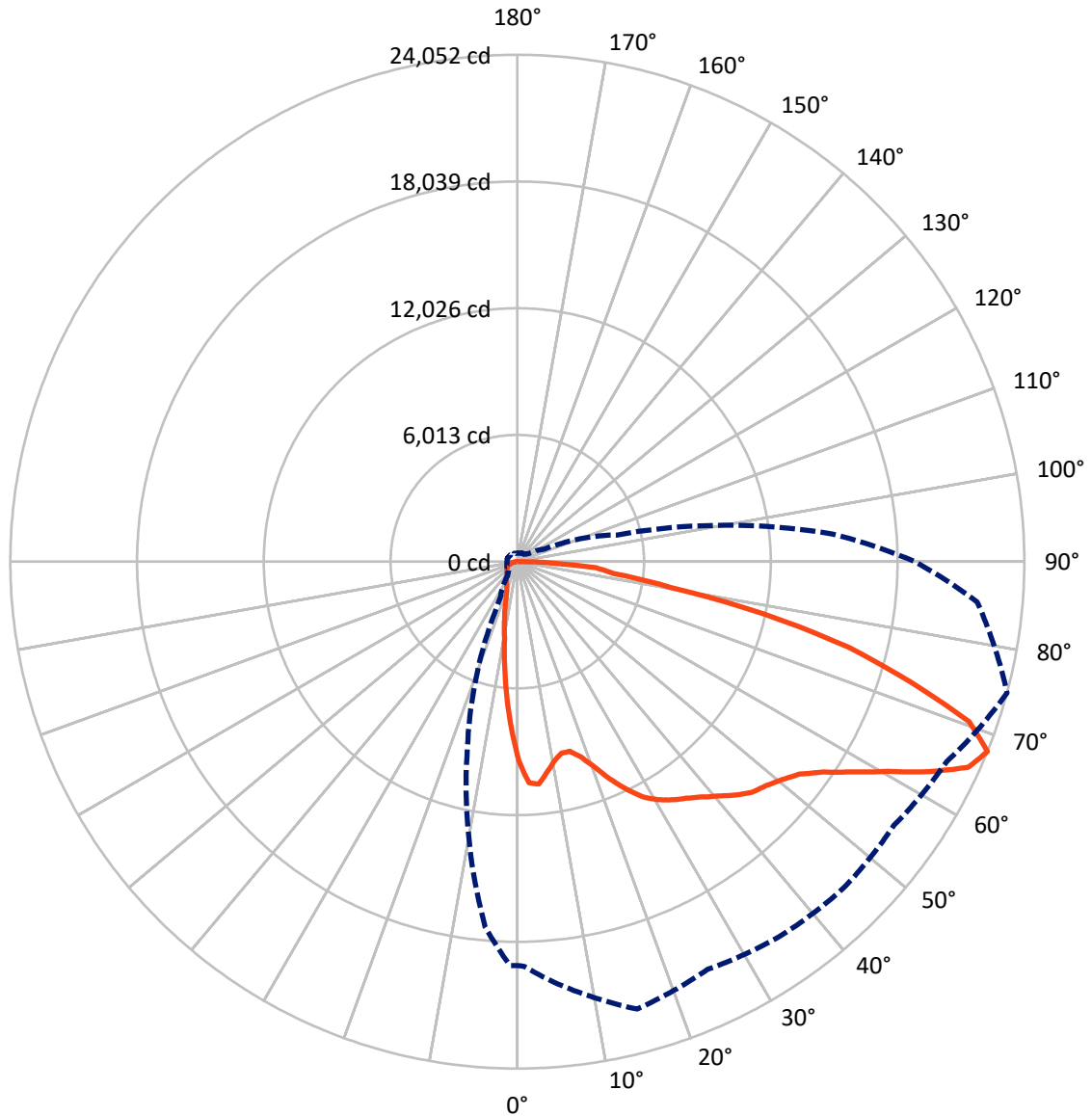
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5129.5	0.0	5129.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	25218.5	0.0	25218.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	30348.0	0.0	30348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.1	2.4
10°-20°	1499.8	4.9
20°-30°	2158.2	7.1
30°-40°	3108.4	10.2
40°-50°	4366.5	14.4
50°-60°	6089.7	20.1
60°-70°	7240.3	23.9
70°-80°	4264.1	14.1
80°-90°	901.7	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°	30348.0	100.0
0°-180°	30348.0	100.0

Coefficient of Utilization



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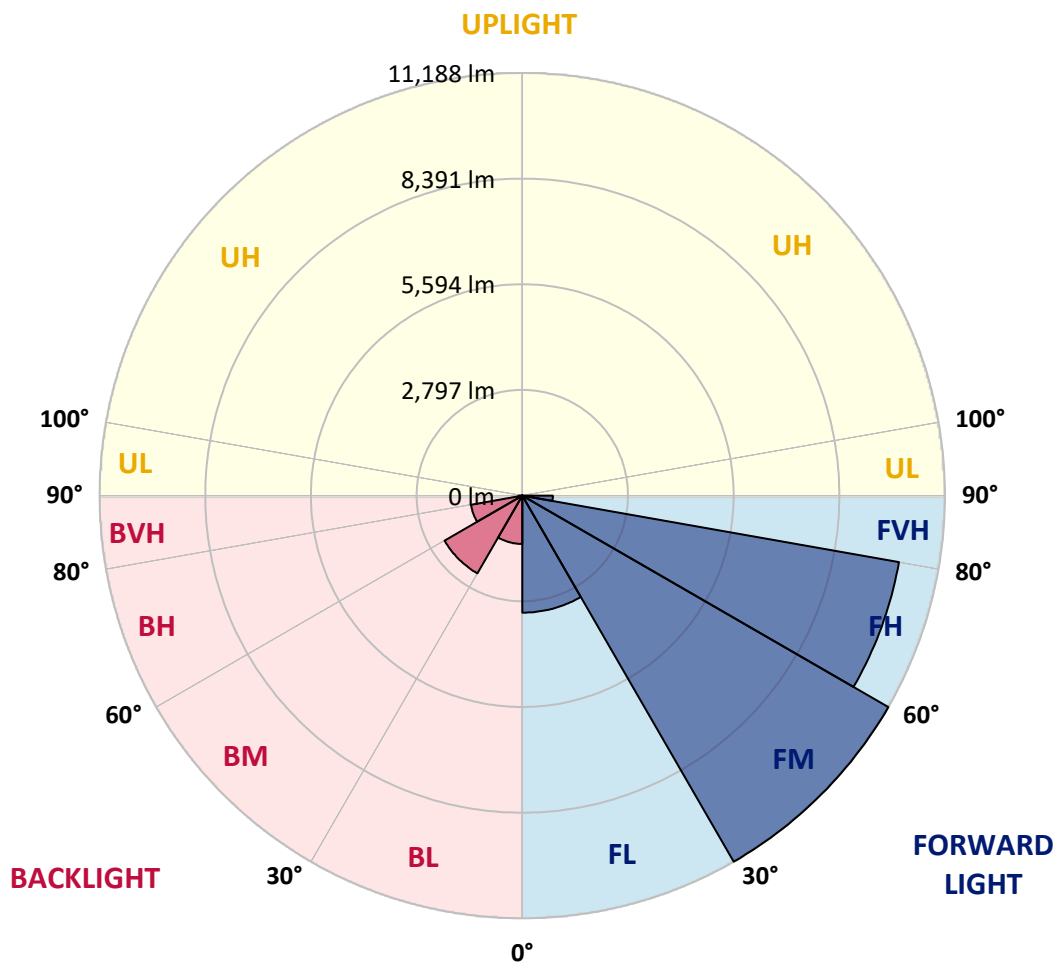
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3097.7	10.2			
FM	(30°-60°)	11188.2	36.9			
FH	(60°-80°)	10124.2	33.4			G4/12000
FVH	(80°-90°)	808.4	2.7			G5
BL	(0°-30°)	1279.5	4.2	B3/2500		
BM	(30°-60°)	2376.5	7.8	B2/2500		
BH	(60°-80°)	1380.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	93.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4
2.5°	10222.9	10236.5	10324.1	10579.0	10754.2	10818.4	10863.2	10779.5	10697.8	10499.2	10199.5
5°	10191.8	10271.6	10499.2	11071.4	11522.9	11717.5	11775.9	11524.8	11110.3	10600.4	9987.4
7.5°	9596.3	9703.3	10053.6	11013.0	11809.0	12264.4	12204.0	11750.6	11003.3	10094.5	9238.2
10°	8889.8	9008.5	9430.8	10590.7	11616.3	12243.0	12243.0	11690.3	10697.8	9617.7	8631.0
12.5°	8329.3	8453.9	8936.5	10156.7	11215.4	11809.0	11908.2	11433.4	10477.8	9316.0	8232.0
15°	8144.5	8265.1	8784.7	9894.0	10791.2	11153.1	11186.2	11030.5	10370.8	9337.4	8214.5
17.5°	8374.1	8529.8	9055.2	9971.9	10401.9	10423.3	10448.6	10571.3	10382.5	9728.6	8568.7
20°	9037.7	9205.1	9753.9	10222.9	10061.4	9839.5	9853.1	10168.4	10520.7	10374.7	9415.3
22.5°	9995.2	10141.2	10703.6	10664.7	9917.4	9460.0	9364.7	9804.5	10725.0	11180.4	10316.3
25°	11028.6	11199.8	11846.0	11320.5	9958.2	9234.3	9173.9	9590.4	10937.1	11933.5	11357.5
27.5°	12211.8	12379.2	12889.1	11982.2	10172.3	9216.8	9144.8	9571.0	11127.8	12630.2	12351.9
30°	13091.5	13245.2	13591.6	12538.8	10435.0	9333.5	9244.0	9724.7	11291.3	13107.0	13321.1
32.5°	13782.3	13941.9	14130.7	12885.2	10781.4	9545.7	9380.2	10004.9	11505.4	13471.0	14039.2
35°	14502.4	14691.2	14677.5	13192.7	11104.5	9790.9	9629.3	10409.7	11842.1	13788.2	14950.0
37.5°	15415.1	15491.0	15393.7	13469.0	11491.8	10232.6	10143.1	11011.1	12320.8	14171.6	16014.5
40°	16341.5	16493.3	15993.1	13803.7	11962.7	11063.6	11053.9	11900.4	12889.1	14621.1	17046.0
42.5°	17135.5	17263.9	16553.6	14095.7	12532.9	12077.5	12151.5	13093.4	13634.4	15142.7	17875.0
45°	17732.9	17847.7	17071.3	14377.8	13284.1	13249.1	13685.0	14372.0	14574.4	15611.7	18361.5
47.5°	18240.9	18351.8	17431.3	14806.0	14212.4	14648.3	15407.3	15705.1	15378.1	15880.2	18906.4
50°	18669.0	18702.1	17678.4	15315.9	15364.5	16362.9	17098.5	17291.2	16172.1	16265.6	19379.3
52.5°	19114.7	19071.8	18104.6	15958.1	16610.0	17989.8	18525.0	18725.4	16933.1	16740.4	20068.3
55°	20113.0	20153.9	19060.2	16767.7	17869.2	19587.6	20292.1	20099.4	17775.7	17614.2	20944.0
57.5°	21319.6	21284.6	20404.9	18034.6	19151.6	21074.4	21599.8	21290.4	18900.6	18815.0	21831.4
60°	21788.6	21835.3	21529.8	19396.8	20416.6	22376.3	22913.5	22432.8	20249.2	20210.3	22500.9
62.5°	21317.7	21580.4	21786.7	20609.3	21494.8	23333.8	23867.1	23318.3	21656.3	21938.5	22969.9
65°	20379.6	20436.1	21138.6	21636.8	22014.4	23491.5	23769.8	23477.8	22831.7	23512.9	22948.5
67.5°	19161.4	19210.0	20033.2	21973.5	21344.9	21701.0	21895.7	21810.0	22467.8	24051.9	21891.8
70°	18001.5	17962.6	18832.5	21115.3	18581.4	18040.4	18201.9	17933.4	19387.1	22734.4	19819.2
72.5°	15744.0	15884.1	16818.3	18729.3	14712.6	13832.9	14185.2	13490.4	14911.1	19470.8	16086.5
75°	12332.5	12365.6	13924.4	15718.7	11098.6	9711.1	10187.9	9897.9	11421.7	16242.2	11108.4
77.5°	8539.5	8465.6	10141.2	12005.5	7914.8	7109.1	7116.9	6978.7	7975.1	11958.8	7547.0
80°	5423.8	5310.9	6348.2	7416.6	5439.4	5818.9	5628.1	5622.3	5192.2	7377.7	4563.6
82.5°	2930.8	3055.4	4010.9	4649.2	3901.9	4497.5	4121.9	4001.2	3563.3	4618.1	2919.2
85°	1335.0	1451.8	2138.8	3162.4	2963.9	2997.0	2002.5	2362.6	2948.4	3750.1	1558.8
87.5°	130.4	167.4	441.8	1492.7	1012.0	797.9	297.8	574.1	741.5	1333.1	124.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4
2.5°	10076.9	9975.7	9631.3	9347.2	9045.5	8815.9	8516.2	8315.7	8177.5	7969.3	7944.0
5°	9613.8	9366.6	8767.2	8156.1	7628.7	7231.7	6828.9	6459.1	6241.2	6173.1	6085.5
7.5°	8833.4	8416.9	7646.3	6945.7	6340.4	5748.8	5293.4	4970.4	4754.3	4627.8	4476.0
10°	8191.2	7708.5	6770.5	5912.3	5414.1	5046.3	4645.4	4299.0	4032.3	3804.6	3680.1
12.5°	7759.1	7214.2	6159.4	5462.7	5077.4	4686.2	4217.2	3828.0	3434.9	3176.0	3065.1
15°	7628.7	7052.7	5970.7	5238.9	4686.2	4174.4	3649.0	3141.0	2751.8	2506.6	2424.8
17.5°	7947.9	7251.2	5968.7	4941.2	4226.9	3615.9	2942.5	2465.7	2066.8	1883.8	1825.4
20°	8543.4	7632.6	5986.2	4647.3	3728.7	2868.6	2140.7	1749.6	1558.8	1481.0	1451.8
22.5°	9374.4	8214.5	6038.8	4357.3	3183.8	2203.0	1603.6	1405.1	1337.0	1323.4	1317.5
25°	10398.0	8934.6	6215.9	4096.6	2724.5	1681.4	1340.9	1251.3	1212.4	1198.8	1196.9
27.5°	11340.0	9864.8	6429.9	3872.8	2280.8	1449.8	1212.4	1136.5	1097.6	1095.7	1099.6
30°	12190.4	10643.3	6609.0	3621.7	1944.2	1288.3	1128.7	1052.8	1015.9	1013.9	1025.6
32.5°	12926.0	11283.5	6741.3	3374.5	1757.3	1189.1	1052.8	971.1	940.0	934.1	940.0
35°	13712.3	11921.9	6681.0	3181.9	1650.3	1107.3	996.4	916.6	879.6	862.1	862.1
37.5°	14609.4	12579.6	6577.8	3022.3	1601.6	1039.2	947.8	869.9	832.9	815.4	813.5
40°	15588.3	13237.4	6435.8	2880.2	1553.0	998.4	914.7	832.9	788.2	770.7	766.8
42.5°	16452.4	13799.8	6319.0	2786.8	1473.2	1006.1	885.5	805.7	749.3	725.9	724.0
45°	17203.6	14366.2	6297.6	2732.3	1407.0	994.5	877.7	784.3	718.1	692.8	688.9
47.5°	17791.3	14955.8	6420.2	2701.2	1335.0	932.2	928.3	770.7	690.9	663.6	659.7
50°	18507.5	15792.7	6700.4	2637.0	1268.9	873.8	980.8	768.7	669.5	634.4	624.7
52.5°	19461.1	16882.5	7079.9	2522.2	1173.5	819.3	936.1	768.7	644.2	609.1	597.5
55°	20903.1	18272.0	7451.6	2360.6	1039.2	747.3	844.6	745.4	607.2	576.0	568.3
57.5°	21858.7	19287.9	7689.1	2136.8	871.9	694.8	727.8	708.4	570.2	537.1	537.1
60°	21907.3	19560.3	7576.2	1854.6	766.8	646.1	632.5	714.2	537.1	502.1	498.2
62.5°	21346.8	18892.8	6988.5	1601.6	710.3	593.6	572.2	626.6	504.0	469.0	463.2
65°	20471.1	17190.0	5968.7	1481.0	679.2	546.9	515.7	513.8	469.0	435.9	428.1
67.5°	18861.7	15022.0	4904.2	1410.9	663.6	494.3	465.1	455.4	428.1	400.9	397.0
70°	16489.4	12581.6	3933.1	1381.7	655.8	439.8	416.5	404.8	381.4	360.0	358.1
72.5°	12828.7	10205.4	3246.1	1362.3	651.9	389.2	363.9	348.4	334.7	315.3	315.3
75°	9214.8	7508.1	2477.4	1228.0	603.3	334.7	307.5	297.8	278.3	262.7	266.6
77.5°	5809.1	5056.0	1630.8	903.0	467.1	268.6	245.2	239.4	223.8	202.4	216.0
80°	3923.4	3555.5	951.6	568.3	293.9	196.6	188.8	186.8	169.3	146.0	147.9
82.5°	2670.1	2619.5	494.3	323.1	169.3	114.8	110.9	114.8	95.4	77.8	77.8
85°	1043.1	1424.6	233.5	126.5	54.5	17.5	25.3	27.2	15.6	7.8	9.7
87.5°	19.5	146.0	5.8	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4
2.5°	7905.1	7887.6	7916.8	7792.2	7817.5	7864.2	7887.6	7901.2	8093.9	8049.1	8171.7
5°	6167.2	6149.7	6262.6	6278.1	6336.5	6324.8	6381.3	6394.9	6465.0	6490.3	6661.5
7.5°	4485.8	4561.7	4690.1	4756.3	4855.5	4886.7	4857.5	4929.5	4783.5	4888.6	4919.8
10°	3604.2	3512.7	3458.2	3610.0	3629.5	3773.5	3715.1	3668.4	3754.0	3757.9	3839.7
12.5°	3000.9	2804.3	2674.0	2716.8	2763.5	2825.7	2835.5	2928.9	2991.2	3049.5	3098.2
15°	2352.8	2284.7	2166.0	2107.6	2173.8	2199.1	2259.4	2337.3	2403.4	2421.0	2487.1
17.5°	1806.0	1817.7	1798.2	1763.2	1804.0	1823.5	1827.4	1829.3	1846.9	1835.2	1932.5
20°	1453.7	1494.6	1543.3	1551.0	1564.7	1574.4	1556.9	1490.7	1492.7	1533.5	1564.7
22.5°	1315.6	1323.4	1377.8	1395.4	1438.2	1420.7	1370.1	1338.9	1335.0	1344.8	1360.3
25°	1206.6	1218.3	1257.2	1284.4	1317.5	1286.4	1249.4	1220.2	1216.3	1226.0	1241.6
27.5°	1109.3	1126.8	1161.8	1189.1	1220.2	1191.0	1156.0	1130.7	1128.7	1126.8	1136.5
30°	1031.4	1050.9	1076.2	1107.3	1128.7	1103.4	1070.4	1056.7	1054.8	1050.9	1054.8
32.5°	953.6	984.7	1010.0	1025.6	1047.0	1027.5	1002.2	994.5	980.8	969.2	963.3
35°	866.0	899.1	938.0	957.5	978.9	959.4	941.9	908.8	885.5	883.5	887.4
37.5°	815.4	829.0	860.2	893.3	914.7	904.9	871.9	838.8	832.9	832.9	836.8
40°	770.7	776.5	790.1	832.9	871.9	842.7	801.8	792.1	792.1	790.1	792.1
42.5°	725.9	731.7	731.7	764.8	827.1	780.4	749.3	749.3	749.3	751.2	757.0
45°	685.0	687.0	685.0	708.4	766.8	727.8	706.4	712.3	716.2	720.1	724.0
47.5°	650.0	651.9	650.0	669.5	698.7	683.1	671.4	679.2	687.0	692.8	696.7
50°	618.9	616.9	620.8	632.5	646.1	650.0	642.2	653.9	657.8	665.6	675.3
52.5°	591.6	589.7	593.6	599.4	618.9	618.9	618.9	628.6	636.4	644.2	657.8
55°	560.5	562.4	568.3	576.0	601.3	597.5	599.4	607.2	615.0	626.6	634.4
57.5°	531.3	535.2	543.0	554.6	579.9	578.0	579.9	583.8	593.6	599.4	607.2
60°	498.2	506.0	515.7	523.5	548.8	546.9	556.6	564.4	570.2	570.2	574.1
62.5°	465.1	476.8	486.5	492.4	519.6	521.6	535.2	541.0	544.9	541.0	546.9
65°	432.0	449.6	453.4	461.2	488.5	490.4	506.0	519.6	515.7	511.8	521.6
67.5°	399.0	420.4	418.4	428.1	455.4	459.3	472.9	496.3	488.5	484.6	492.4
70°	362.0	377.5	379.5	385.3	422.3	416.5	437.9	459.3	453.4	455.4	455.4
72.5°	321.1	334.7	334.7	346.4	385.3	375.6	393.1	416.5	416.5	414.5	414.5
75°	272.5	280.2	288.0	305.5	346.4	334.7	346.4	367.8	371.7	367.8	367.8
77.5°	219.9	231.6	235.5	258.8	288.0	286.1	297.8	307.5	315.3	311.4	311.4
80°	155.7	167.4	182.9	208.2	225.7	231.6	237.4	245.2	249.1	249.1	253.0
82.5°	87.6	105.1	118.7	144.0	151.8	181.0	179.0	184.9	179.0	157.6	175.1
85°	19.5	37.0	52.5	66.2	75.9	105.1	110.9	124.6	103.1	95.4	95.4
87.5°	0.0	0.0	0.0	0.0	0.0	15.6	31.1	42.8	37.0	31.1	31.1
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: P454495

CATALOG NUMBER: GALN-SA5C-760-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4	9481.4
2.5°	8274.8	8444.2	8648.5	9000.7	9247.9	9514.5	9783.1	10069.2	10145.1	10222.9
5°	6708.2	7041.0	7222.0	7694.9	8191.2	8821.7	9337.4	9901.8	10137.3	10191.8
7.5°	5081.3	5307.0	5781.9	6260.6	6875.6	7537.3	8327.4	9207.0	9481.4	9596.3
10°	4028.4	4335.9	4752.4	5266.2	5805.2	6517.5	7408.8	8436.4	8825.6	8889.8
12.5°	3429.0	3771.6	4225.0	4768.0	5277.8	5815.0	6714.1	7774.7	8191.2	8329.3
15°	2742.1	3156.6	3680.1	4252.2	4806.9	5394.6	6305.4	7502.2	7982.9	8144.5
17.5°	2154.3	2489.1	3055.4	3676.2	4334.0	5077.4	6219.8	7632.6	8224.2	8374.1
20°	1648.4	1887.7	2364.5	3020.4	3791.0	4764.1	6241.2	8125.0	8833.4	9037.7
22.5°	1424.6	1547.2	1837.1	2461.8	3324.0	4491.6	6328.7	8800.3	9654.6	9995.2
25°	1290.3	1354.5	1518.0	1926.6	2878.3	4226.9	6529.2	9709.1	10802.8	11028.6
27.5°	1175.4	1222.2	1323.4	1617.2	2473.5	3981.7	6762.7	10717.2	11875.1	12211.8
30°	1066.5	1128.7	1224.1	1436.2	2214.7	3757.9	7056.6	11534.6	12778.1	13091.5
32.5°	982.8	1045.1	1132.6	1309.7	1994.8	3522.5	7231.7	12252.7	13515.7	13782.3
35°	914.7	967.2	1058.7	1208.5	1827.4	3343.4	7196.7	12822.9	14229.9	14502.4
37.5°	866.0	910.8	1002.2	1113.2	1700.9	3156.6	7179.2	13576.0	15099.8	15415.1
40°	821.3	868.0	951.6	1050.9	1574.4	2936.7	7188.9	14323.3	16026.2	16341.5
42.5°	786.2	838.8	906.9	1033.4	1444.0	2759.6	7188.9	14973.3	16831.9	17135.5
45°	757.0	813.5	879.6	1031.4	1340.9	2625.3	7140.3	15531.9	17474.1	17732.9
47.5°	731.7	794.0	889.4	996.4	1315.6	2528.0	7097.5	15979.5	17997.6	18240.9
50°	714.2	788.2	945.8	955.5	1323.4	2498.8	7303.7	16543.9	18458.8	18669.0
52.5°	700.6	790.1	943.9	895.2	1309.7	2518.3	7733.8	17425.4	19099.1	19114.7
55°	673.4	788.2	895.2	827.1	1253.3	2551.3	8286.5	18706.0	20101.3	20113.0
57.5°	646.1	766.8	831.0	768.7	1138.5	2551.3	8952.1	19918.4	21309.9	21319.6
60°	618.9	797.9	729.8	718.1	988.6	2504.6	9654.6	20451.6	21689.4	21788.6
62.5°	591.6	803.7	651.9	673.4	879.6	2391.8	10178.1	19862.0	21175.6	21317.7
65°	560.5	648.1	601.3	626.6	823.2	2203.0	10012.7	18781.9	20210.3	20379.6
67.5°	523.5	548.8	546.9	578.0	803.7	1924.7	9140.9	17415.7	19171.1	19161.4
70°	478.7	492.4	498.2	531.3	766.8	1708.7	7617.1	15642.8	17783.5	18001.5
72.5°	432.0	443.7	449.6	478.7	729.8	1586.1	5912.3	13200.4	15403.4	15744.0
75°	381.4	389.2	397.0	422.3	690.9	1405.1	4211.4	10076.9	11797.3	12332.5
77.5°	328.9	328.9	338.6	363.9	581.9	1159.9	2825.7	7068.3	7992.7	8539.5
80°	266.6	268.6	264.7	291.9	428.1	794.0	1605.5	4721.3	5318.7	5423.8
82.5°	204.3	198.5	200.4	214.1	319.2	541.0	856.3	2932.8	2989.2	2930.8
85°	128.4	128.4	124.6	140.1	204.3	282.2	467.1	1796.3	1403.1	1335.0
87.5°	52.5	42.8	48.7	56.4	97.3	114.8	182.9	369.8	142.1	130.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)