

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: P530081

Luminaire Tested: **GALN-SA5B-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530081
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-SA5B-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 14675 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

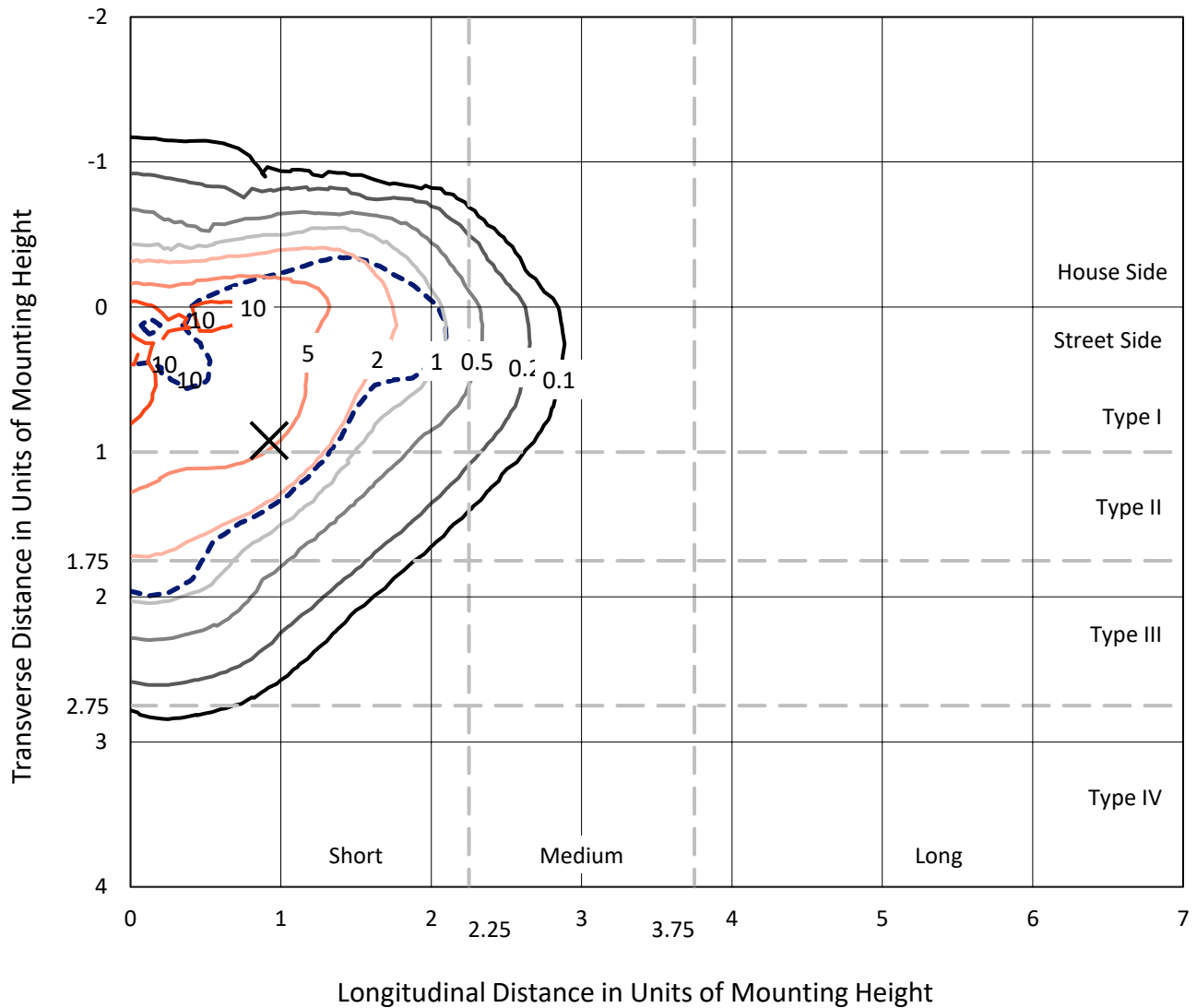
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530081
 CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

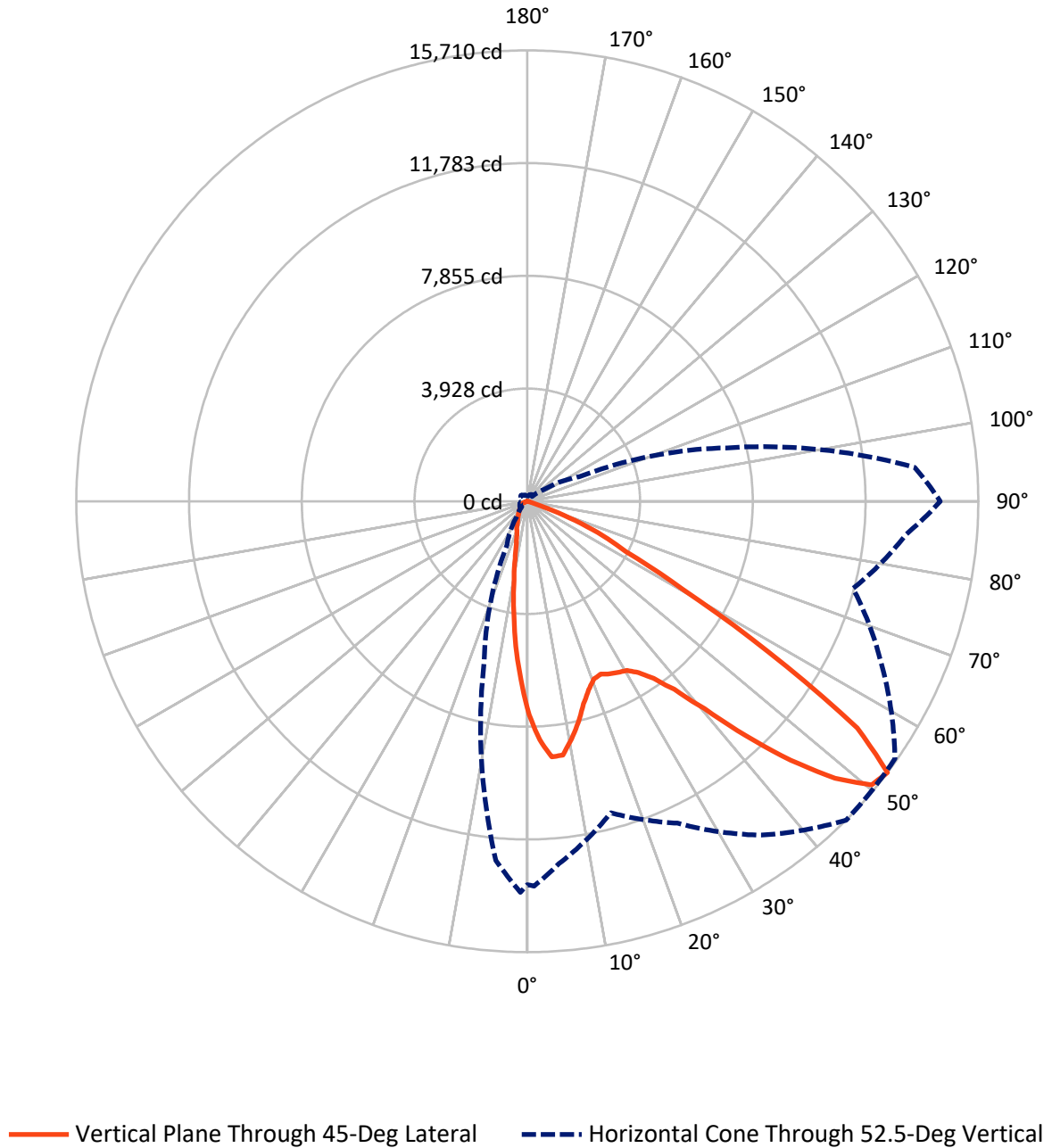
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

REPORT NUMBER: P530081
CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P530081
 CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2978.3	0.0	2978.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11696.7	0.0	11696.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	14675.0	0.0	14675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.7	3.7
10°-20°	1070.6	7.3
20°-30°	1629.3	11.1
30°-40°	2435.2	16.6
40°-50°	3468.0	23.6
50°-60°	3728.0	25.4
60°-70°	1652.0	11.3
70°-80°	133.7	0.9
80°-90°	15.6	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°	14675.0	100.0
0°-180°	14675.0	100.0

Coefficient of Utilization

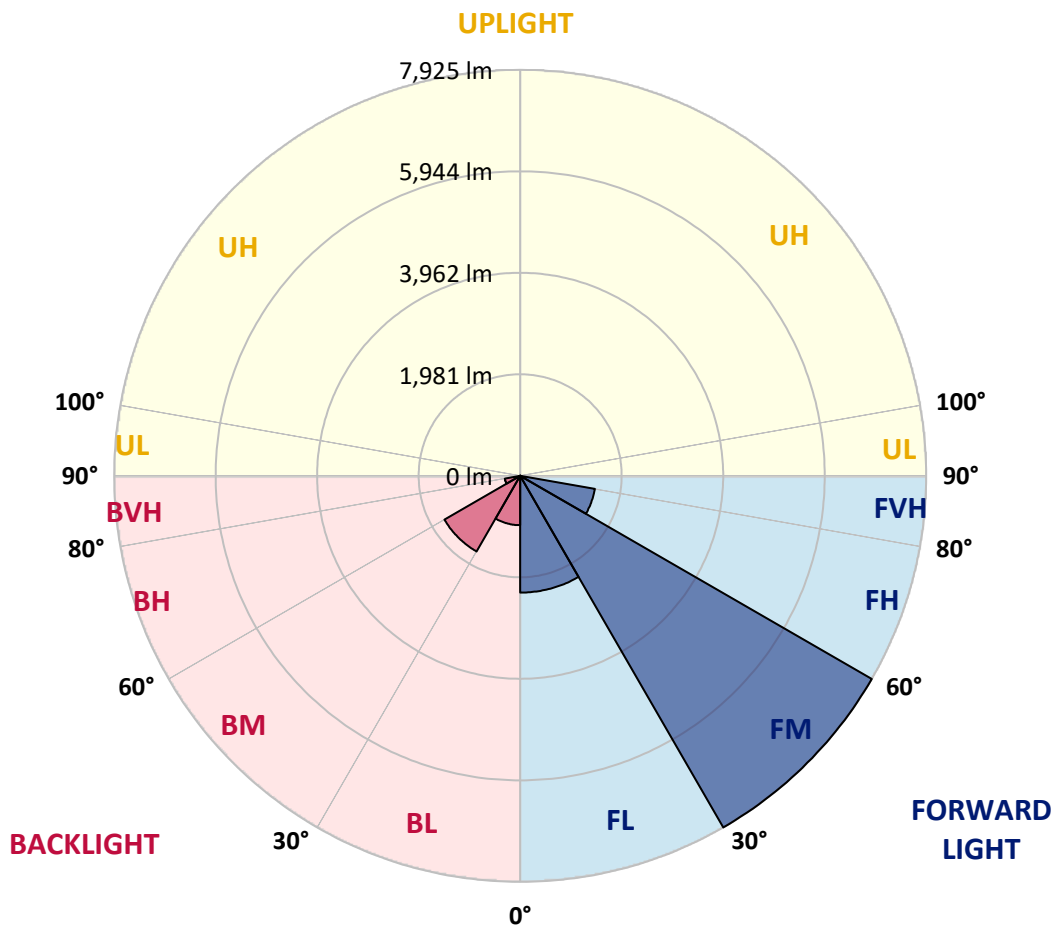


REPORT NUMBER: P530081
 CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2279.3	15.5			
FM (30°-60°)	7925.0	54.0			
FH (60°-80°)	1480.9	10.1			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	963.3	6.6	B2/1000		
BM (30°-60°)	1706.2	11.6	B2/2500		
BH (60°-80°)	304.7	2.1	B1/500		G1/500
BVH (80°-90°)	4.0	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: P530081

CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9
2.5°	7873.9	7896.9	8023.9	8182.7	8266.4	8456.9	8324.1	8358.8	8286.6	8032.6	7833.4
5°	7634.3	7631.4	7793.0	8185.6	8557.9	8936.0	8947.6	8745.5	8390.5	8000.9	7443.8
7.5°	6912.7	7025.3	7192.7	7819.0	8508.8	8791.7	8927.4	8690.7	8145.2	7588.1	6984.9
10°	6367.2	6424.9	6707.8	7464.0	7969.1	8347.2	8430.9	8295.3	7876.7	7181.1	6505.7
12.5°	6052.6	6081.5	6413.4	7048.4	7582.3	7862.3	7902.7	7966.2	7666.0	7013.7	6202.7
15°	6055.5	6078.6	6525.9	7057.0	7267.7	7192.7	7325.5	7322.6	7452.5	6982.0	6456.7
17.5°	6491.3	6517.3	6921.4	7184.0	7091.7	6915.6	6906.9	7039.7	7313.9	7377.4	6840.6
20°	7241.8	7302.4	7599.7	7585.2	7065.7	6710.7	6612.5	6713.6	7351.4	7712.2	7614.1
22.5°	8252.0	8335.7	8543.5	8145.2	7184.0	6572.1	6540.4	6736.6	7599.7	8459.8	8491.5
25°	9423.8	9565.2	9666.3	9155.4	7605.4	6811.7	6661.6	6999.3	7934.5	9270.8	9608.5
27.5°	10200.2	10347.4	10324.3	9594.1	7888.3	6875.2	6748.2	7062.8	8226.0	9464.2	10191.6
30°	10806.3	10895.8	11057.5	9830.8	8171.1	7054.1	6837.7	7331.2	8321.2	9799.0	10895.8
32.5°	11513.5	11574.1	11585.6	10249.3	8607.0	7279.3	7114.8	7666.0	8742.6	10119.4	11519.3
35°	12226.4	12315.9	12128.3	10765.9	8875.4	7697.8	7576.6	8246.2	9080.3	10451.3	12206.2
37.5°	12999.9	13046.1	12613.2	10979.5	9259.3	8379.0	8312.6	8872.5	9666.3	11051.7	12968.2
40°	13649.4	13692.7	13129.8	11242.2	9663.4	9331.4	9501.7	10067.4	10462.9	11441.3	13349.2
42.5°	14010.1	14111.2	13303.0	11097.9	10474.4	10410.9	11167.1	11366.3	11386.5	11551.0	13689.8
45°	14108.3	14062.1	13017.3	11216.2	11184.5	12186.0	12872.9	13135.6	12304.3	11753.1	13776.4
47.5°	13655.1	13715.7	12595.9	11112.3	12116.7	13531.0	14420.0	14907.8	12988.4	11577.0	13562.8
50°	13288.6	13210.6	12460.2	11037.2	12367.8	14166.0	15537.0	15646.7	13617.6	11793.5	13329.0
52.5°	13360.7	13409.8	12676.7	11236.4	12373.6	14203.5	15710.2	15635.1	13637.8	11744.4	13245.3
55°	13513.7	13297.2	12584.3	10797.7	11545.2	13155.8	13943.8	13828.3	12587.2	11222.0	13040.3
57.5°	11660.7	11995.5	11571.2	9640.3	9475.8	9911.6	9897.2	10252.2	9389.2	9657.6	11871.4
60°	9464.2	9521.9	9680.7	8246.2	6557.7	6407.6	6199.8	5974.7	6318.1	8257.7	10797.7
62.5°	8324.1	8254.8	8820.6	7501.5	4629.6	3876.3	3841.7	3980.2	4875.0	7876.7	10128.1
65°	6049.7	6136.3	6546.2	5821.7	3475.1	2958.5	2906.5	3316.4	3945.6	6312.4	7729.5
67.5°	3694.5	3861.9	3899.4	3590.6	2358.1	1873.2	1798.2	2170.5	2848.8	4084.1	4531.5
70°	1705.8	1907.9	2098.3	1959.8	1365.2	770.6	727.4	912.1	1437.4	2349.5	2404.3
72.5°	516.6	519.5	727.4	759.1	441.6	173.2	153.0	202.0	487.8	776.4	816.8
75°	37.5	40.4	98.1	112.6	83.7	43.3	46.2	54.8	103.9	173.2	129.9
77.5°	2.9	2.9	2.9	14.4	26.0	28.9	37.5	43.3	54.8	63.5	57.7
80°	2.9	0.0	2.9	11.5	20.2	28.9	34.6	40.4	43.3	49.1	43.3
82.5°	0.0	0.0	0.0	8.7	20.2	28.9	31.7	43.3	49.1	57.7	49.1
85°	0.0	0.0	0.0	8.7	20.2	31.7	28.9	14.4	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: P530081

CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9
2.5°	7868.1	7755.5	7498.6	7368.7	7062.8	7019.5	6719.3	6670.3	6569.2	6514.4	6381.6
5°	7198.5	7062.8	6644.3	6292.2	5882.3	5596.6	5377.2	5178.0	5062.6	4955.8	5004.9
7.5°	6652.9	6257.5	5792.8	5204.0	4730.7	4424.7	4089.9	3815.7	3654.1	3544.4	3570.4
10°	6081.5	5824.6	5178.0	4517.1	3945.6	3729.1	3466.5	3255.8	3027.7	2831.5	2739.1
12.5°	5902.5	5521.5	4710.5	4037.9	3605.0	3394.3	3094.1	2851.7	2560.2	2320.6	2236.9
15°	5934.3	5567.7	4583.5	3864.8	3353.9	2990.2	2632.3	2332.1	2011.8	1844.4	1757.8
17.5°	6450.9	5815.9	4667.2	3682.9	3004.6	2499.5	2057.9	1676.9	1437.4	1264.2	1226.7
20°	7085.9	6352.8	4846.1	3550.2	2718.9	1988.7	1503.8	1174.7	975.6	946.7	938.1
22.5°	8015.3	7230.2	5230.0	3460.7	2369.7	1549.9	1030.4	854.3	799.5	793.7	796.6
25°	9314.1	8329.9	5648.5	3385.6	2107.0	1194.9	842.8	724.5	707.1	698.5	712.9
27.5°	9877.0	8993.7	5870.8	3224.0	1867.4	1076.6	831.3	718.7	669.6	655.2	663.9
30°	10572.6	9435.3	6220.0	2946.9	1515.3	886.1	776.4	782.2	759.1	686.9	663.9
32.5°	11496.2	9986.6	6396.1	2750.7	1353.7	733.1	568.6	522.4	583.0	594.6	614.8
35°	12087.9	10546.6	6485.5	2635.2	1270.0	626.3	482.0	438.7	424.3	427.2	438.7
37.5°	13187.6	11302.8	6598.1	2514.0	1206.5	545.5	435.8	395.4	375.2	375.2	386.8
40°	13845.6	11903.1	6751.1	2447.6	1143.0	496.4	395.4	360.8	343.5	343.5	349.2
42.5°	14010.1	12200.4	6699.1	2424.5	1070.8	484.9	360.8	334.8	314.6	311.7	308.8
45°	14304.6	12653.6	6707.8	2398.5	995.8	441.6	340.6	311.7	282.9	280.0	277.1
47.5°	14627.8	12979.7	6725.1	2297.5	923.6	369.4	355.0	288.6	254.0	248.2	248.2
50°	14350.7	13239.5	6875.2	2196.5	831.3	300.2	349.2	271.3	225.1	216.5	219.4
52.5°	14385.4	13545.5	7192.7	2055.1	715.8	239.6	282.9	256.9	204.9	190.5	193.4
55°	13831.2	13222.2	7236.0	1905.0	559.9	184.7	216.5	225.1	173.2	167.4	167.4
57.5°	11906.0	11196.0	6384.5	1544.2	369.4	153.0	155.9	196.3	150.1	144.3	147.2
60°	10188.7	8988.0	5137.6	1018.9	230.9	121.2	112.6	199.2	132.8	129.9	138.5
62.5°	9288.1	7386.1	3896.5	632.1	158.7	92.4	77.9	161.6	115.5	115.5	127.0
65°	6710.7	4961.6	2265.8	331.9	112.6	72.2	57.7	92.4	95.2	98.1	103.9
67.5°	4156.3	2505.3	955.4	161.6	75.0	49.1	37.5	57.7	63.5	63.5	69.3
70°	2052.2	998.7	317.5	92.4	57.7	40.4	26.0	31.7	31.7	28.9	31.7
72.5°	635.0	300.2	80.8	57.7	40.4	26.0	14.4	11.5	5.8	0.0	2.9
75°	72.2	57.7	52.0	40.4	26.0	11.5	2.9	0.0	0.0	0.0	0.0
77.5°	43.3	49.1	49.1	40.4	26.0	8.7	0.0	0.0	0.0	0.0	0.0
80°	34.6	37.5	40.4	37.5	23.1	11.5	0.0	0.0	0.0	0.0	0.0
82.5°	43.3	49.1	54.8	49.1	31.7	14.4	5.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.7	2.9	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: P530081

CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9
2.5°	6326.8	6263.3	6352.8	6220.0	6217.1	6220.0	6182.5	6147.8	6202.7	6349.9	6364.3
5°	4828.8	4964.5	5007.7	5149.2	5071.2	4955.8	4978.9	4901.0	5091.5	5175.2	5108.8
7.5°	3515.5	3506.9	3798.4	3815.7	3853.2	3856.1	3850.3	3697.4	3541.5	3576.1	3680.0
10°	2727.6	2580.4	2721.8	2707.4	2799.7	2773.7	2811.3	2646.7	2701.6	2701.6	2768.0
12.5°	2222.5	2066.6	2040.6	2003.1	2040.6	2055.1	2069.5	2037.7	2130.1	2173.4	2219.6
15°	1697.2	1610.6	1587.5	1515.3	1526.9	1567.3	1601.9	1616.3	1587.5	1653.9	1659.6
17.5°	1232.5	1229.6	1244.0	1241.1	1229.6	1220.9	1218.0	1180.5	1169.0	1174.7	1197.8
20°	935.2	958.3	1007.3	1056.4	1082.4	1050.6	1007.3	943.8	917.8	923.6	926.5
22.5°	799.5	834.1	900.5	955.4	981.3	923.6	845.7	790.8	779.3	776.4	773.5
25°	724.5	764.9	813.9	831.3	828.4	793.7	736.0	712.9	707.1	701.4	675.4
27.5°	684.1	698.5	707.1	727.4	736.0	712.9	698.5	663.9	658.1	658.1	640.8
30°	661.0	652.3	663.9	649.4	661.0	643.6	646.5	646.5	632.1	637.9	637.9
32.5°	614.8	617.7	617.7	588.8	597.5	577.3	597.5	614.8	617.7	620.6	643.6
35°	450.3	502.2	528.2	528.2	536.9	522.4	519.5	499.3	473.4	447.4	435.8
37.5°	395.4	415.6	450.3	470.5	484.9	473.4	447.4	415.6	401.2	389.7	378.1
40°	352.1	369.4	392.5	415.6	444.5	430.1	389.7	375.2	357.9	357.9	346.4
42.5°	317.5	326.2	340.6	375.2	407.0	378.1	349.2	337.7	329.0	326.2	323.3
45°	285.7	288.6	303.1	331.9	369.4	340.6	311.7	297.3	300.2	303.1	300.2
47.5°	256.9	262.7	271.3	305.9	329.0	314.6	282.9	274.2	274.2	274.2	277.1
50°	222.2	236.7	254.0	282.9	300.2	291.5	265.5	254.0	248.2	248.2	251.1
52.5°	199.2	210.7	233.8	268.4	291.5	277.1	251.1	233.8	222.2	219.4	225.1
55°	173.2	193.4	230.9	256.9	288.6	274.2	245.3	225.1	204.9	202.0	202.0
57.5°	155.9	187.6	222.2	254.0	280.0	268.4	245.3	219.4	193.4	190.5	190.5
60°	147.2	181.8	216.5	245.3	280.0	262.7	242.5	213.6	184.7	184.7	181.8
62.5°	138.5	170.3	204.9	233.8	268.4	254.0	233.8	204.9	176.1	176.1	170.3
65°	115.5	147.2	170.3	196.3	233.8	219.4	199.2	179.0	155.9	150.1	153.0
67.5°	80.8	101.0	124.1	150.1	173.2	167.4	158.7	144.3	124.1	121.2	118.3
70°	40.4	54.8	75.0	101.0	121.2	115.5	109.7	98.1	86.6	83.7	83.7
72.5°	5.8	17.3	31.7	46.2	63.5	66.4	63.5	60.6	57.7	54.8	57.7
75°	0.0	0.0	0.0	11.5	26.0	31.7	37.5	43.3	43.3	37.5	46.2
77.5°	0.0	0.0	0.0	0.0	2.9	14.4	28.9	37.5	46.2	40.4	54.8
80°	0.0	0.0	0.0	0.0	2.9	17.3	28.9	40.4	46.2	40.4	57.7
82.5°	0.0	0.0	0.0	0.0	2.9	20.2	28.9	37.5	43.3	40.4	52.0
85°	0.0	0.0	0.0	0.0	8.7	17.3	11.5	5.8	2.9	2.9	8.7
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: P530081
 CATALOG NUMBER: GALN-SA5B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9	7440.9
2.5°	6445.1	6650.1	6869.4	6953.1	7212.9	7409.2	7541.9	7827.7	7871.0	7873.9
5°	5178.0	5281.9	5657.2	5833.2	6220.0	6520.2	6840.6	7302.4	7611.2	7634.3
7.5°	3680.0	3968.7	4127.4	4586.3	5062.6	5533.1	6009.3	6546.2	6904.1	6912.7
10°	2961.4	3149.0	3431.8	3775.3	4176.5	4655.6	5290.6	5914.0	6277.7	6367.2
12.5°	2384.1	2713.1	3036.4	3391.4	3697.4	4058.2	4742.2	5573.5	5873.6	6052.6
15°	1835.7	2135.9	2516.9	2932.5	3278.8	3760.9	4540.2	5489.8	5994.9	6055.5
17.5°	1353.7	1622.1	1974.2	2366.8	2886.3	3570.4	4574.8	5914.0	6390.3	6491.3
20°	972.7	1128.5	1405.6	1861.7	2522.6	3348.1	4609.4	6344.1	7068.6	7241.8
22.5°	770.6	834.1	1016.0	1420.1	2115.7	3114.3	4854.8	7166.7	8000.9	8252.0
25°	669.6	704.3	790.8	1119.9	1858.8	3091.2	5247.3	8153.8	9242.0	9423.8
27.5°	646.5	652.3	727.4	1027.5	1720.2	2938.3	5397.4	8855.2	10015.5	10200.2
30°	681.2	773.5	779.3	868.8	1463.4	2635.2	5475.3	9533.5	10670.7	10806.3
32.5°	588.8	559.9	580.1	672.5	1287.3	2459.1	5622.5	10125.2	11418.2	11513.5
35°	409.9	430.1	476.2	583.0	1125.7	2274.4	5660.1	10777.5	12128.3	12226.4
37.5°	378.1	389.7	427.2	496.4	990.0	2170.5	5608.1	11253.7	12864.3	12999.9
40°	352.1	366.6	386.8	450.3	889.0	2055.1	5535.9	11683.8	13314.5	13649.4
42.5°	331.9	343.5	360.8	430.1	802.4	1939.6	5434.9	12289.9	13718.6	14010.1
45°	308.8	326.2	346.4	418.5	753.3	1861.7	5359.9	12252.4	13952.4	14108.3
47.5°	285.7	314.6	337.7	389.7	738.9	1824.1	5391.6	12111.0	13761.9	13655.1
50°	262.7	300.2	340.6	323.3	704.3	1749.1	5429.1	12304.3	13308.8	13288.6
52.5°	242.5	285.7	317.5	265.5	626.3	1676.9	5792.8	12558.3	13629.2	13360.7
55°	213.6	256.9	254.0	213.6	508.0	1622.1	6078.6	12564.1	13412.7	13513.7
57.5°	193.4	228.0	199.2	179.0	375.2	1356.6	5613.9	10535.0	11481.7	11660.7
60°	179.0	222.2	150.1	141.4	245.3	978.5	4901.0	8159.6	9126.5	9464.2
62.5°	164.5	210.7	118.3	115.5	170.3	695.6	4029.3	6829.0	7865.2	8324.1
65°	144.3	150.1	95.2	89.5	121.2	375.2	2453.4	4701.8	5879.4	6049.7
67.5°	118.3	115.5	77.9	72.2	80.8	181.8	1082.4	2355.2	3408.7	3694.5
70°	95.2	95.2	66.4	57.7	57.7	83.7	282.9	938.1	1541.3	1705.8
72.5°	69.3	72.2	52.0	46.2	43.3	40.4	46.2	187.6	404.1	516.6
75°	60.6	63.5	52.0	40.4	31.7	26.0	20.2	17.3	23.1	37.5
77.5°	66.4	66.4	54.8	37.5	28.9	20.2	11.5	5.8	5.8	2.9
80°	83.7	86.6	72.2	49.1	34.6	23.1	14.4	5.8	2.9	2.9
82.5°	89.5	98.1	80.8	60.6	43.3	26.0	14.4	2.9	0.0	0.0
85°	23.1	37.5	63.5	54.8	43.3	26.0	14.4	2.9	0.0	0.0
87.5°	0.0	2.9	8.7	8.7	11.5	11.5	8.7	2.9	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

(END OF REPORT)