

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: P532187

Luminaire Tested: **GALN-SA7C-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532187
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-SA7C-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 25218 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

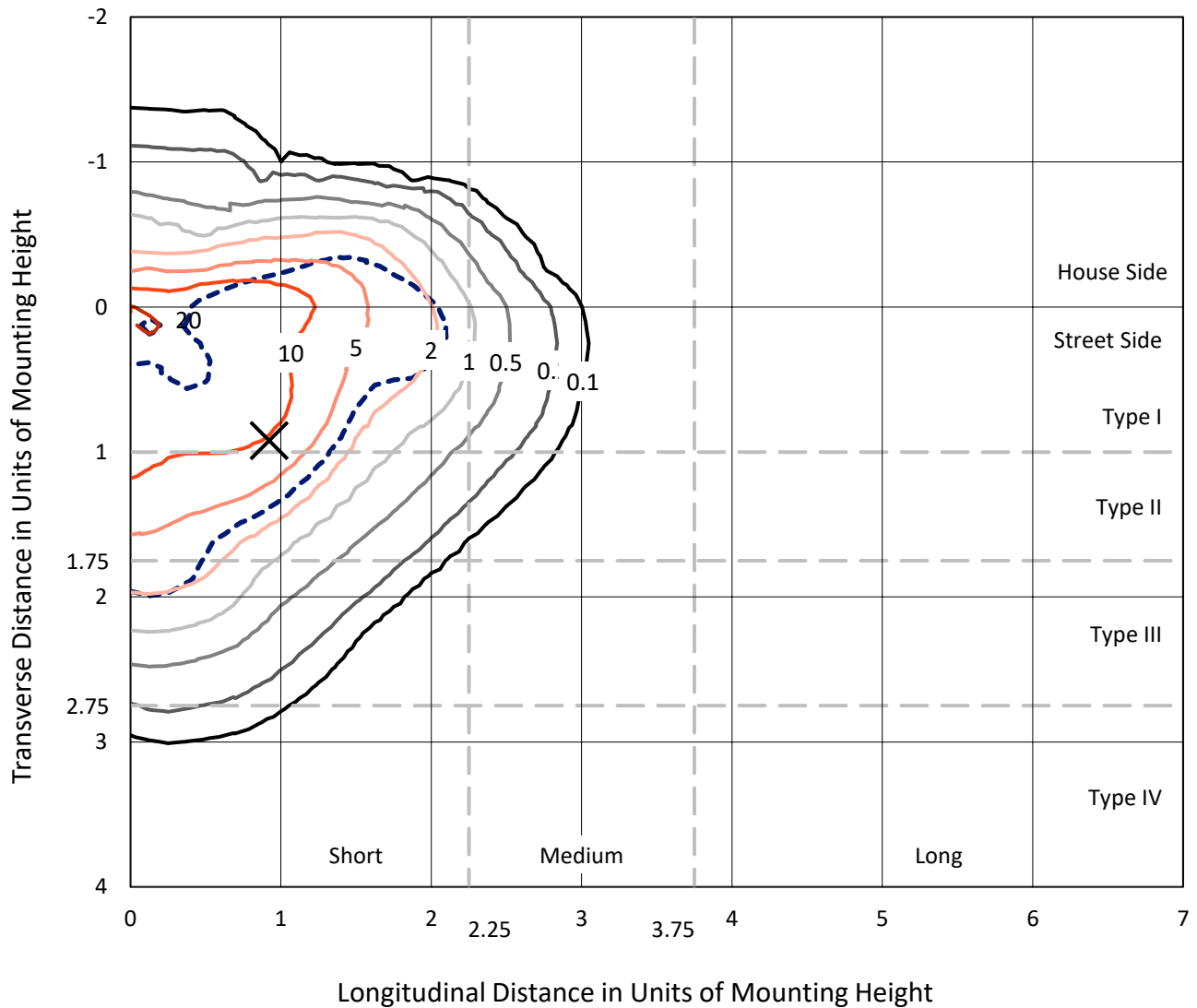
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

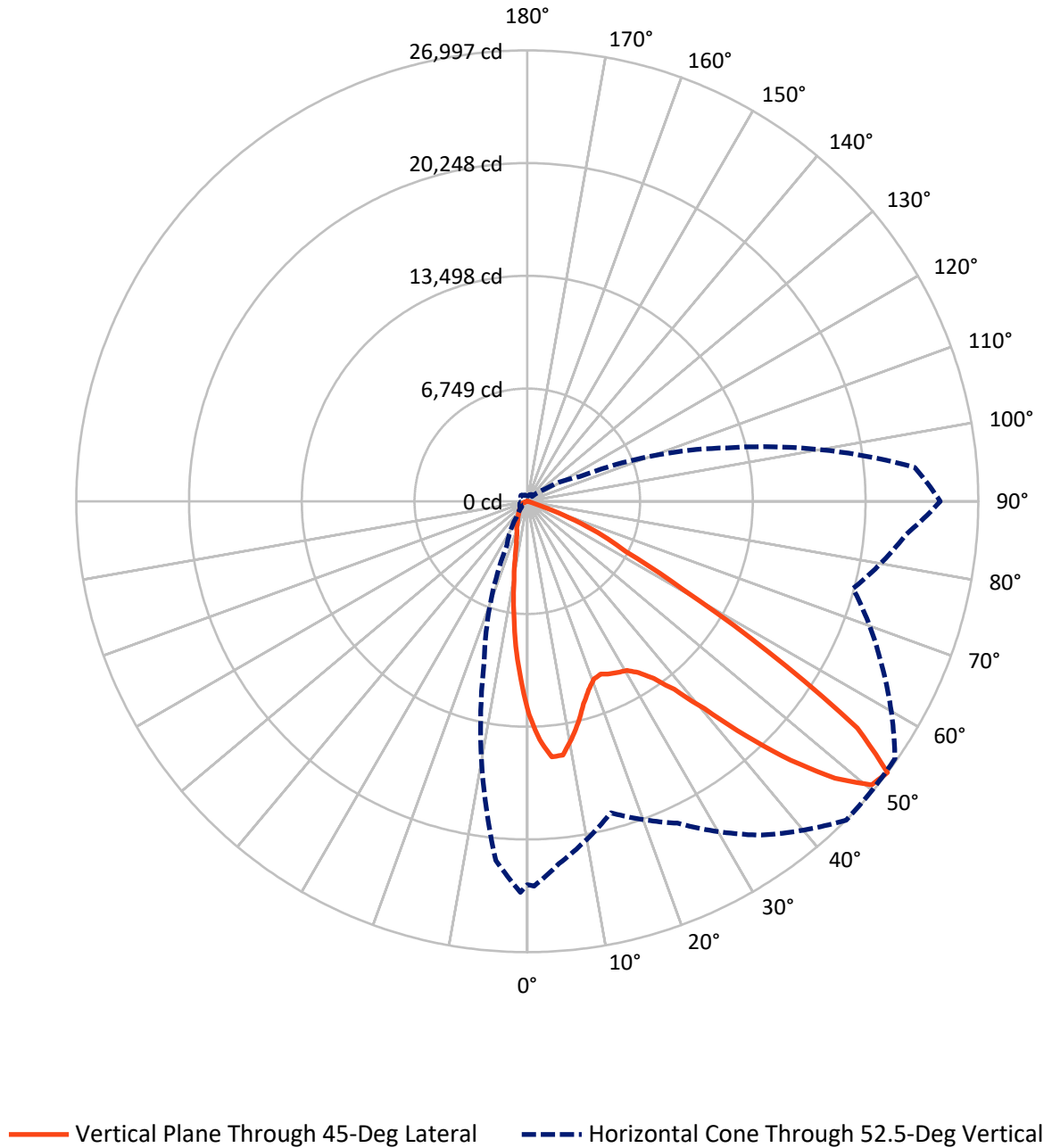
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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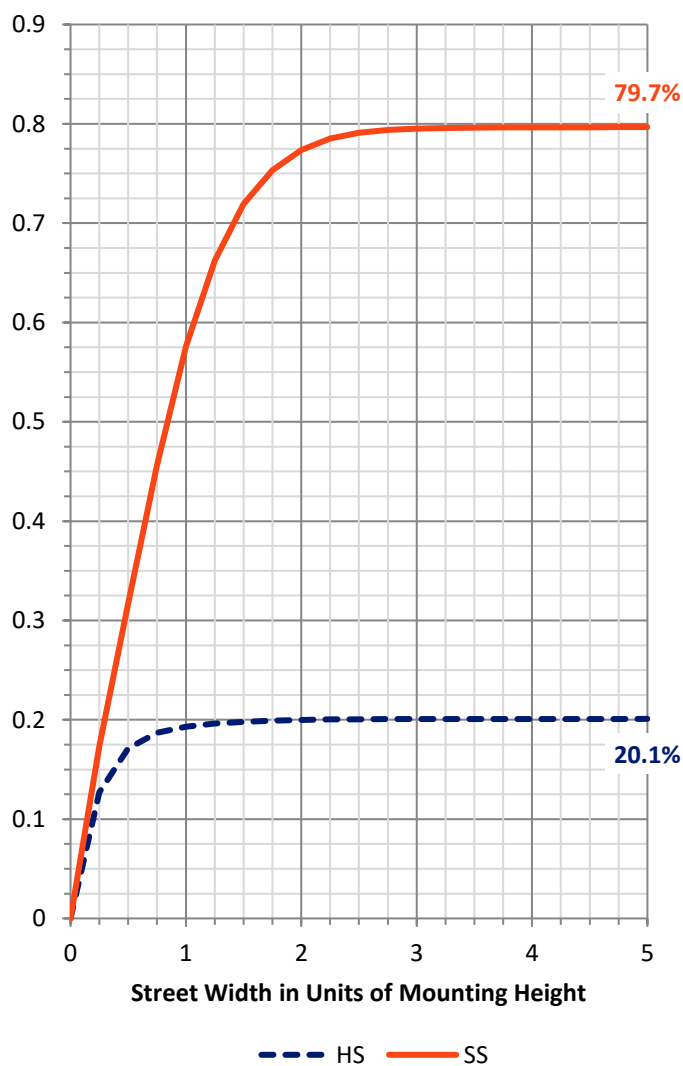
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5118.0	0.0	5118.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	20100.0	0.0	20100.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	25218.0	0.0	25218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	932.5	3.7
10°-20°	1839.8	7.3
20°-30°	2799.9	11.1
30°-40°	4184.8	16.6
40°-50°	5959.5	23.6
50°-60°	6406.3	25.4
60°-70°	2838.8	11.3
70°-80°	229.7	0.9
80°-90°	26.8	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°	25218.0	100.0
0°-180°	25218.0	100.0

Coefficient of Utilization

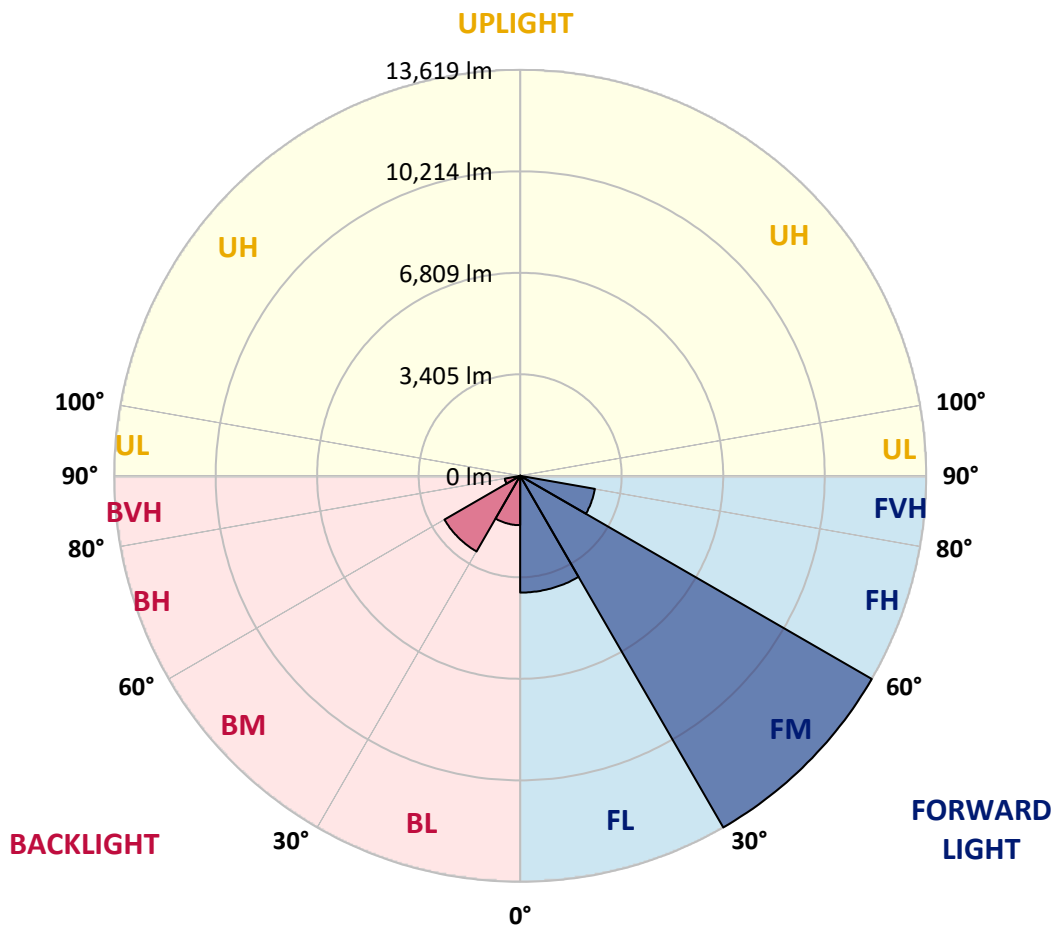


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3916.9	15.5			
FM (30°-60°)	13618.5	54.0			
FH (60°-80°)	2544.8	10.1			G2/5000
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	1655.4	6.6	B3/2500		
BM (30°-60°)	2932.1	11.6	B3/5000		
BH (60°-80°)	523.7	2.1	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7
2.5°	13530.7	13570.4	13788.6	14061.4	14205.2	14532.6	14304.4	14364.0	14240.0	13803.5	13461.2
5°	13119.0	13114.1	13391.8	14066.4	14706.2	15355.9	15375.8	15028.6	14418.5	13748.9	12791.7
7.5°	11879.0	12072.5	12360.1	13436.4	14621.9	15107.9	15341.1	14934.3	13996.9	13039.7	12003.0
10°	10941.6	11040.8	11526.9	12826.4	13694.4	14344.1	14488.0	14254.8	13535.6	12340.3	11179.7
12.5°	10401.0	10450.6	11021.0	12112.1	13029.7	13510.8	13580.3	13689.4	13173.6	12052.6	10658.9
15°	10405.9	10445.6	11214.4	12127.0	12489.1	12360.1	12588.3	12583.3	12806.5	11998.1	11095.4
17.5°	11154.9	11199.5	11893.9	12345.3	12186.5	11884.0	11869.1	12097.3	12568.5	12677.6	11755.0
20°	12444.5	12548.6	13059.5	13034.7	12141.9	11531.8	11363.2	11536.8	12632.9	13252.9	13084.3
22.5°	14180.4	14324.3	14681.4	13996.9	12345.3	11293.8	11239.2	11576.5	13059.5	14537.6	14592.1
25°	16194.2	16437.2	16610.8	15732.9	13069.4	11705.4	11447.5	12027.8	13634.8	15931.3	16511.6
27.5°	17528.4	17781.3	17741.7	16486.8	13555.5	11814.6	11596.3	12136.9	14135.8	16263.6	17513.5
30°	18570.0	18723.7	19001.5	16893.5	14041.6	12122.1	11750.1	12598.2	14299.5	16839.0	18723.7
32.5°	19785.2	19889.3	19909.2	17612.7	14790.5	12508.9	12226.2	13173.6	15023.6	17389.5	19795.1
35°	21010.3	21164.0	20841.6	18500.5	15251.8	13228.1	13019.8	14170.5	15603.9	17959.9	20975.5
37.5°	22339.5	22418.9	21674.9	18867.6	15911.5	14398.7	14284.6	15246.8	16610.8	18991.6	22285.0
40°	23455.5	23529.9	22562.7	19318.9	16605.8	16035.5	16328.1	17300.2	17979.7	19661.2	22939.7
42.5°	24075.5	24249.1	22860.3	19070.9	17999.6	17890.5	19190.0	19532.2	19566.9	19849.6	23524.9
45°	24244.1	24164.8	22369.3	19274.3	19219.7	20940.8	22121.3	22572.6	21144.2	20196.8	23673.7
47.5°	23465.4	23569.6	21645.1	19095.7	20821.8	23252.1	24779.8	25618.0	22319.7	19894.3	23306.7
50°	22835.5	22701.6	21412.0	18966.8	21253.3	24343.3	26699.3	26887.8	23400.9	20266.3	22905.0
52.5°	22959.5	23043.8	21784.0	19309.0	21263.2	24407.8	26996.9	26867.9	23435.7	20182.0	22761.1
55°	23222.4	22850.4	21625.3	18555.1	19839.7	22607.4	23961.4	23763.0	21630.3	19284.2	22409.0
57.5°	20038.1	20613.5	19884.4	16566.2	16283.4	17032.4	17007.6	17617.7	16134.7	16595.9	20400.2
60°	16263.6	16362.8	16635.6	14170.5	11269.0	11011.0	10653.9	10267.1	10857.3	14190.4	18555.1
62.5°	14304.4	14185.4	15157.5	12890.9	7955.7	6661.2	6601.7	6839.7	8377.3	13535.6	17404.4
65°	10396.0	10544.8	11249.1	10004.2	5971.8	5083.9	4994.6	5699.0	6780.2	10847.4	13282.7
67.5°	6348.7	6636.4	6700.9	6170.2	4052.3	3219.0	3090.0	3729.9	4895.5	7018.3	7787.1
70°	2931.3	3278.5	3605.9	3367.8	2346.0	1324.3	1249.9	1567.3	2470.0	4037.4	4131.6
72.5°	887.8	892.8	1249.9	1304.5	758.9	297.6	262.9	347.2	838.2	1334.2	1403.7
75°	64.5	69.4	168.6	193.4	143.8	74.4	79.4	94.2	178.6	297.6	223.2
77.5°	5.0	5.0	5.0	24.8	44.6	49.6	64.5	74.4	94.2	109.1	99.2
80°	5.0	0.0	5.0	19.8	34.7	49.6	59.5	69.4	74.4	84.3	74.4
82.5°	0.0	0.0	0.0	14.9	34.7	49.6	54.6	74.4	84.3	99.2	84.3
85°	0.0	0.0	0.0	14.9	34.7	54.6	49.6	24.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7
2.5°	13520.8	13327.3	12885.9	12662.7	12136.9	12062.5	11546.7	11462.4	11288.8	11194.6	10966.4
5°	12370.1	12136.9	11417.8	10812.6	10108.3	9617.3	9240.3	8898.1	8699.7	8516.2	8600.5
7.5°	11432.6	10753.1	9954.6	8942.8	8129.3	7603.6	7028.2	6557.0	6279.3	6090.8	6135.4
10°	10450.6	10009.1	8898.1	7762.3	6780.2	6408.2	5956.9	5594.8	5203.0	4865.7	4707.0
12.5°	10143.1	9488.3	8094.6	6938.9	6195.0	5832.9	5317.0	4900.4	4399.5	3987.8	3843.9
15°	10197.6	9567.7	7876.4	6641.3	5763.4	5138.5	4523.5	4007.6	3457.1	3169.4	3020.6
17.5°	11085.4	9994.3	8020.2	6328.9	5163.3	4295.3	3536.4	2881.7	2470.0	2172.4	2108.0
20°	12176.6	10916.8	8327.7	6100.7	4672.3	3417.4	2584.1	2018.7	1676.5	1626.9	1612.0
22.5°	13773.7	12424.6	8987.4	5947.0	4072.1	2663.5	1770.7	1468.1	1373.9	1364.0	1368.9
25°	16005.7	14314.4	9706.6	5818.0	3620.7	2053.4	1448.3	1244.9	1215.2	1200.3	1225.1
27.5°	16972.9	15455.1	10088.5	5540.2	3209.1	1850.1	1428.5	1235.0	1150.7	1125.9	1140.8
30°	18168.2	16214.0	10688.6	5064.1	2604.0	1522.7	1334.2	1344.1	1304.5	1180.5	1140.8
32.5°	19755.4	17161.4	10991.2	4726.8	2326.2	1259.8	977.1	897.7	1001.9	1021.7	1056.5
35°	20772.2	18123.6	11145.0	4528.4	2182.4	1076.3	828.3	753.9	729.1	734.1	753.9
37.5°	22661.9	19423.1	11338.4	4320.1	2073.3	937.4	748.9	679.5	644.8	644.8	664.6
40°	23792.8	20454.7	11601.3	4206.0	1964.1	853.1	679.5	620.0	590.2	590.2	600.2
42.5°	24075.5	20965.6	11512.0	4166.3	1840.1	833.3	620.0	575.4	540.6	535.7	530.7
45°	24581.4	21744.3	11526.9	4121.7	1711.2	758.9	585.3	535.7	486.1	481.1	476.2
47.5°	25136.9	22304.8	11556.6	3948.1	1587.2	634.9	610.1	496.0	436.5	426.6	426.6
50°	24660.8	22751.2	11814.6	3774.5	1428.5	515.8	600.2	466.2	386.9	372.0	377.0
52.5°	24720.3	23276.9	12360.1	3531.5	1230.1	411.7	486.1	441.4	352.2	327.4	332.3
55°	23768.0	22721.4	12434.5	3273.6	962.2	317.4	372.0	386.9	297.6	287.7	287.7
57.5°	20459.7	19239.6	10971.4	2653.6	634.9	262.9	267.8	337.3	257.9	248.0	253.0
60°	17508.6	15445.2	8828.7	1750.9	396.8	208.3	193.4	342.2	228.2	223.2	238.1
62.5°	15961.1	12692.5	6695.9	1086.2	272.8	158.7	133.9	277.8	198.4	198.4	218.2
65°	11531.8	8526.1	3893.5	570.4	193.4	124.0	99.2	158.7	163.7	168.6	178.6
67.5°	7142.3	4305.2	1641.7	277.8	129.0	84.3	64.5	99.2	109.1	109.1	119.0
70°	3526.5	1716.1	545.6	158.7	99.2	69.4	44.6	54.6	54.6	49.6	54.6
72.5°	1091.2	515.8	138.9	99.2	69.4	44.6	24.8	19.8	9.9	0.0	5.0
75°	124.0	99.2	89.3	69.4	44.6	19.8	5.0	0.0	0.0	0.0	0.0
77.5°	74.4	84.3	84.3	69.4	44.6	14.9	0.0	0.0	0.0	0.0	0.0
80°	59.5	64.5	69.4	64.5	39.7	19.8	0.0	0.0	0.0	0.0	0.0
82.5°	74.4	84.3	94.2	84.3	54.6	24.8	9.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	14.9	5.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7
2.5°	10872.2	10763.0	10916.8	10688.6	10683.7	10688.6	10624.2	10564.6	10658.9	10911.8	10936.6
5°	8298.0	8531.1	8605.5	8848.5	8714.6	8516.2	8555.9	8422.0	8749.3	8893.2	8779.1
7.5°	6041.2	6026.3	6527.3	6557.0	6621.5	6626.5	6616.5	6353.7	6085.8	6145.4	6323.9
10°	4687.1	4434.2	4677.2	4652.4	4811.1	4766.5	4831.0	4548.3	4642.5	4642.5	4756.6
12.5°	3819.1	3551.3	3506.7	3442.2	3506.7	3531.5	3556.3	3501.7	3660.4	3734.8	3814.2
15°	2916.4	2767.6	2728.0	2604.0	2623.8	2693.2	2752.8	2777.6	2728.0	2842.0	2852.0
17.5°	2117.9	2112.9	2137.7	2132.8	2112.9	2098.1	2093.1	2028.6	2008.8	2018.7	2058.4
20°	1607.0	1646.7	1731.0	1815.3	1860.0	1805.4	1731.0	1621.9	1577.3	1587.2	1592.1
22.5°	1373.9	1433.4	1547.5	1641.7	1686.4	1587.2	1453.3	1359.0	1339.2	1334.2	1329.3
25°	1244.9	1314.4	1398.7	1428.5	1423.5	1364.0	1264.8	1225.1	1215.2	1205.3	1160.6
27.5°	1175.5	1200.3	1215.2	1249.9	1264.8	1225.1	1200.3	1140.8	1130.9	1130.9	1101.1
30°	1135.8	1120.9	1140.8	1116.0	1135.8	1106.1	1111.0	1111.0	1086.2	1096.1	1096.1
32.5°	1056.5	1061.4	1061.4	1011.8	1026.7	992.0	1026.7	1056.5	1061.4	1066.4	1106.1
35°	773.7	863.0	907.7	907.7	922.5	897.7	892.8	858.1	813.4	768.8	748.9
37.5°	679.5	714.2	773.7	808.5	833.3	813.4	768.8	714.2	689.4	669.6	649.8
40°	605.1	634.9	674.6	714.2	763.8	739.0	669.6	644.8	615.0	615.0	595.2
42.5°	545.6	560.5	585.3	644.8	699.4	649.8	600.2	580.3	565.4	560.5	555.5
45°	491.0	496.0	520.8	570.4	634.9	585.3	535.7	510.9	515.8	520.8	515.8
47.5°	441.4	451.4	466.2	525.8	565.4	540.6	486.1	471.2	471.2	471.2	476.2
50°	381.9	406.7	436.5	486.1	515.8	501.0	456.3	436.5	426.6	426.6	431.5
52.5°	342.2	362.1	401.8	461.3	501.0	476.2	431.5	401.8	381.9	377.0	386.9
55°	297.6	332.3	396.8	441.4	496.0	471.2	421.6	386.9	352.2	347.2	347.2
57.5°	267.8	322.4	381.9	436.5	481.1	461.3	421.6	377.0	332.3	327.4	327.4
60°	253.0	312.5	372.0	421.6	481.1	451.4	416.6	367.0	317.4	317.4	312.5
62.5°	238.1	292.6	352.2	401.8	461.3	436.5	401.8	352.2	302.6	302.6	292.6
65°	198.4	253.0	292.6	337.3	401.8	377.0	342.2	307.5	267.8	257.9	262.9
67.5°	138.9	173.6	213.3	257.9	297.6	287.7	272.8	248.0	213.3	208.3	203.4
70°	69.4	94.2	129.0	173.6	208.3	198.4	188.5	168.6	148.8	143.8	143.8
72.5°	9.9	29.8	54.6	79.4	109.1	114.1	109.1	104.2	99.2	94.2	99.2
75°	0.0	0.0	0.0	19.8	44.6	54.6	64.5	74.4	74.4	64.5	79.4
77.5°	0.0	0.0	0.0	0.0	5.0	24.8	49.6	64.5	79.4	69.4	94.2
80°	0.0	0.0	0.0	0.0	5.0	29.8	49.6	69.4	79.4	69.4	99.2
82.5°	0.0	0.0	0.0	0.0	5.0	34.7	49.6	64.5	74.4	69.4	89.3
85°	0.0	0.0	0.0	0.0	14.9	29.8	19.8	9.9	5.0	5.0	14.9
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: P532187

CATALOG NUMBER: GALN-SA7C-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7	12786.7
2.5°	11075.5	11427.7	11804.6	11948.5	12394.9	12732.1	12960.3	13451.3	13525.7	13530.7
5°	8898.1	9076.7	9721.5	10024.0	10688.6	11204.5	11755.0	12548.6	13079.3	13119.0
7.5°	6323.9	6819.9	7092.7	7881.3	8699.7	9508.2	10326.6	11249.1	11864.2	11879.0
10°	5088.9	5411.3	5897.4	6487.6	7177.0	8000.4	9091.6	10162.9	10787.8	10941.6
12.5°	4096.9	4662.3	5217.8	5827.9	6353.7	6973.7	8149.2	9577.6	10093.5	10401.0
15°	3154.5	3670.3	4325.1	5039.3	5634.5	6462.8	7802.0	9433.8	10301.8	10405.9
17.5°	2326.2	2787.5	3392.6	4067.1	4959.9	6135.4	7861.5	10162.9	10981.3	11154.9
20°	1671.5	1939.3	2415.5	3199.2	4335.0	5753.5	7921.0	10901.9	12146.9	12444.5
22.5°	1324.3	1433.4	1745.9	2440.3	3635.6	5351.8	8342.6	12315.5	13748.9	14180.4
25°	1150.7	1210.2	1359.0	1924.5	3194.2	5312.1	9017.2	14011.8	15881.7	16194.2
27.5°	1111.0	1120.9	1249.9	1765.7	2956.1	5049.2	9275.1	15217.1	17211.0	17528.4
30°	1170.5	1329.3	1339.2	1492.9	2514.7	4528.4	9409.0	16382.6	18336.9	18570.0
32.5°	1011.8	962.2	996.9	1155.7	2212.1	4225.9	9661.9	17399.4	19621.5	19785.2
35°	704.3	739.0	818.4	1001.9	1934.4	3908.4	9726.4	18520.4	20841.6	21010.3
37.5°	649.8	669.6	734.1	853.1	1701.3	3729.9	9637.1	19338.8	22106.4	22339.5
40°	605.1	629.9	664.6	773.7	1527.7	3531.5	9513.1	20077.8	22880.2	23455.5
42.5°	570.4	590.2	620.0	739.0	1378.9	3333.1	9339.5	21119.4	23574.5	24075.5
45°	530.7	560.5	595.2	719.2	1294.5	3199.2	9210.6	21054.9	23976.3	24244.1
47.5°	491.0	540.6	580.3	669.6	1269.7	3134.7	9265.1	20811.9	23648.9	23465.4
50°	451.4	515.8	585.3	555.5	1210.2	3005.7	9329.6	21144.2	22870.2	22835.5
52.5°	416.6	491.0	545.6	456.3	1076.3	2881.7	9954.6	21580.7	23420.8	22959.5
55°	367.0	441.4	436.5	367.0	872.9	2787.5	10445.6	21590.6	23048.8	23222.4
57.5°	332.3	391.8	342.2	307.5	644.8	2331.2	9647.1	18103.7	19730.6	20038.1
60°	307.5	381.9	257.9	243.0	421.6	1681.4	8422.0	14021.7	15683.3	16263.6
62.5°	282.7	362.1	203.4	198.4	292.6	1195.3	6924.1	11735.2	13515.8	14304.4
65°	248.0	257.9	163.7	153.8	208.3	644.8	4215.9	8079.7	10103.4	10396.0
67.5°	203.4	198.4	133.9	124.0	138.9	312.5	1860.0	4047.3	5857.7	6348.7
70°	163.7	163.7	114.1	99.2	99.2	143.8	486.1	1612.0	2648.6	2931.3
72.5°	119.0	124.0	89.3	79.4	74.4	69.4	79.4	322.4	694.4	887.8
75°	104.2	109.1	89.3	69.4	54.6	44.6	34.7	29.8	39.7	64.5
77.5°	114.1	114.1	94.2	64.5	49.6	34.7	19.8	9.9	9.9	5.0
80°	143.8	148.8	124.0	84.3	59.5	39.7	24.8	9.9	5.0	5.0
82.5°	153.8	168.6	138.9	104.2	74.4	44.6	24.8	5.0	0.0	0.0
85°	39.7	64.5	109.1	94.2	74.4	44.6	24.8	5.0	0.0	0.0
87.5°	0.0	5.0	14.9	14.9	19.8	19.8	14.9	5.0	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

(END OF REPORT)