

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: P530601

Luminaire Tested: **GALN-SA5D-750-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530601
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-SA5D-750-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA 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: 21417 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

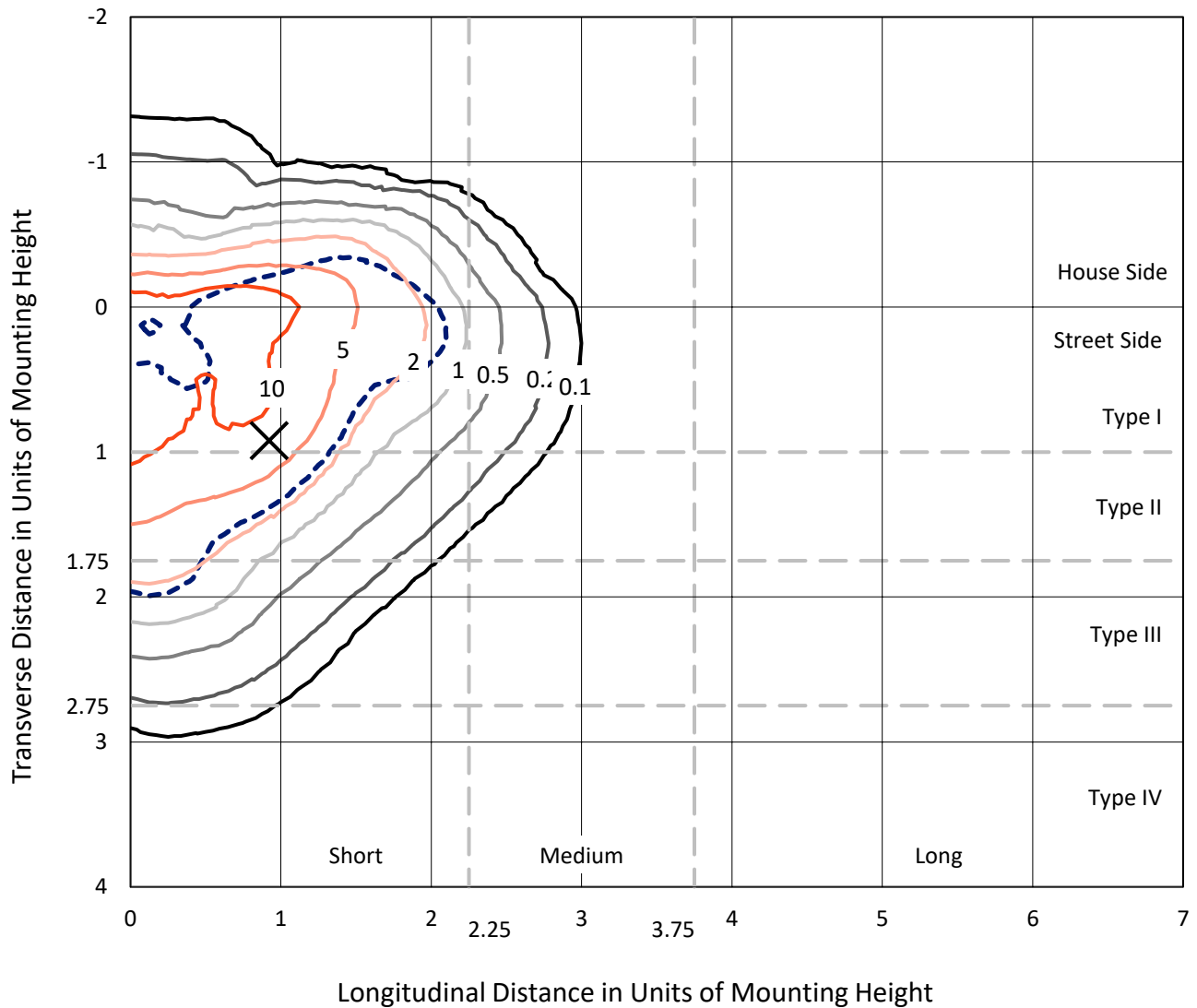
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

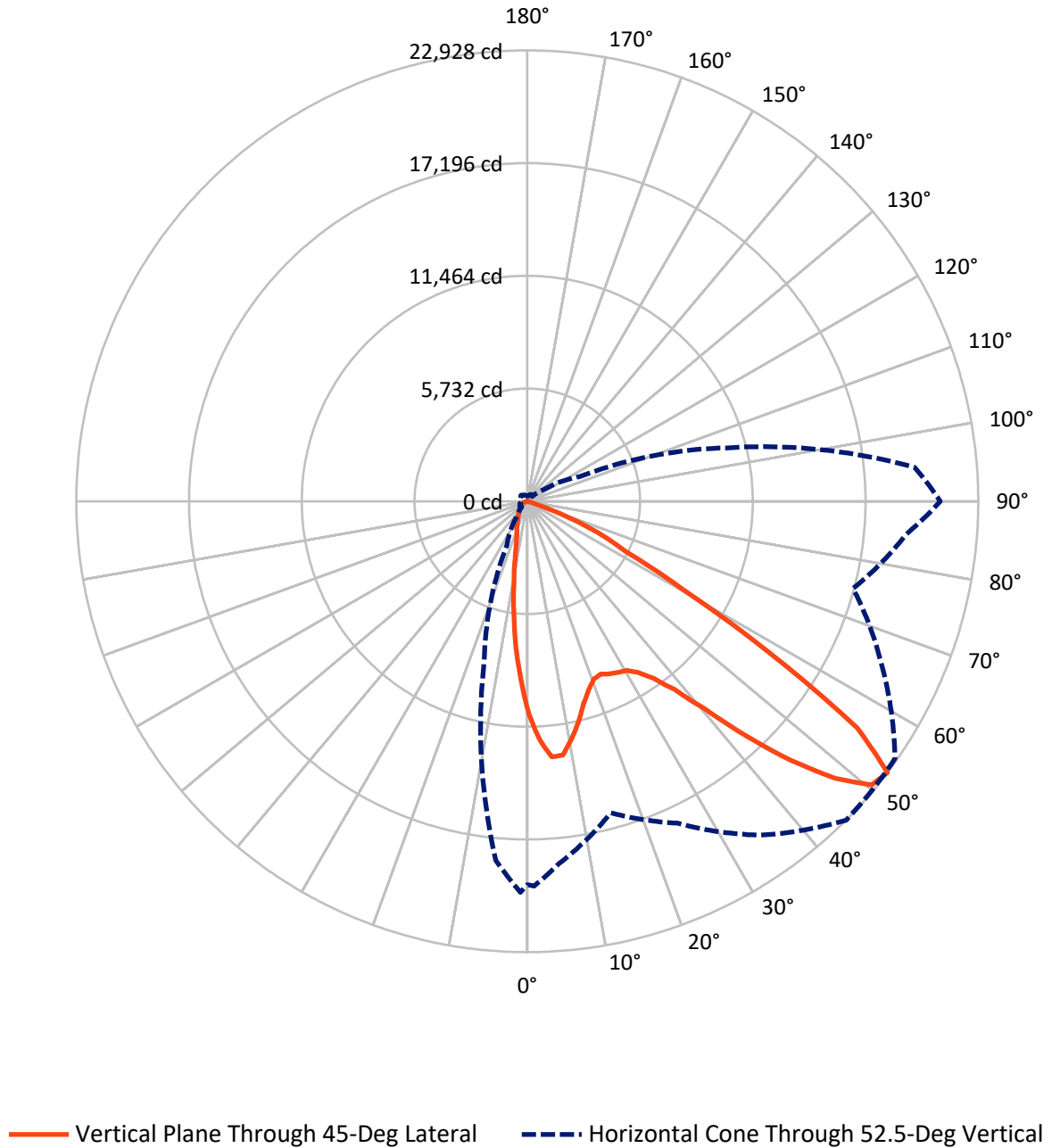
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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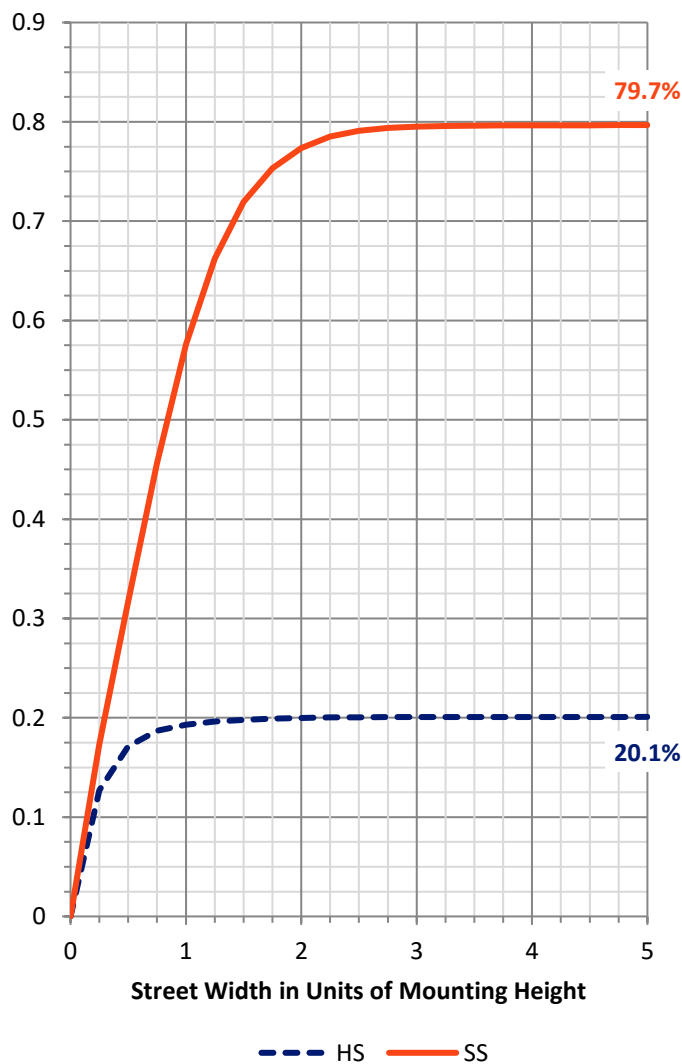
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4346.6	0.0	4346.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	17070.4	0.0	17070.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	21417.0	0.0	21417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.0	3.7
10°-20°	1562.5	7.3
20°-30°	2377.9	11.1
30°-40°	3554.0	16.6
40°-50°	5061.3	23.6
50°-60°	5440.7	25.4
60°-70°	2410.9	11.3
70°-80°	195.1	0.9
80°-90°	22.7	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°	21417.0	100.0
0°-180°	21417.0	100.0

Coefficient of Utilization



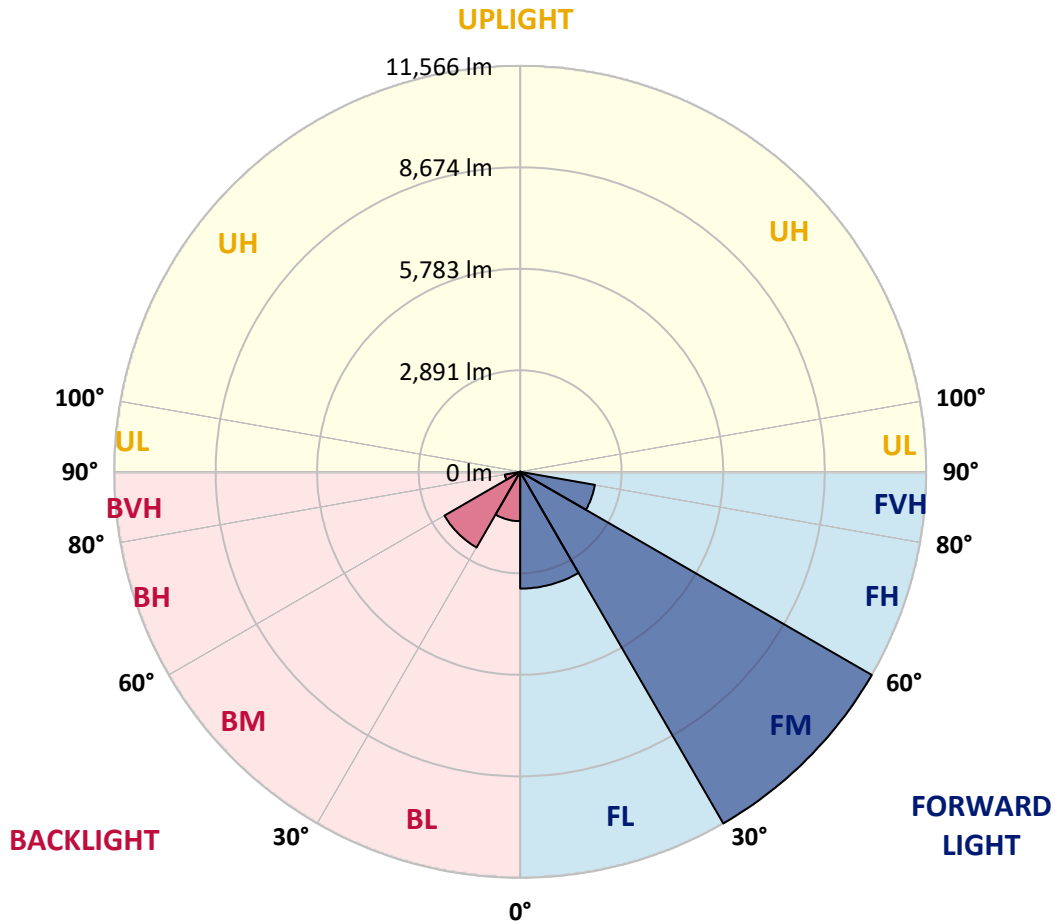
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3326.5	15.5			
FM (30°-60°)	11565.8	54.0			
FH (60°-80°)	2161.2	10.1			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1405.9	6.6	B3/2500		
BM (30°-60°)	2490.1	11.6	B2/2500		
BH (60°-80°)	444.7	2.1	B1/500		G1/500
BVH (80°-90°)	5.9	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°	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4
2.5°	11491.3	11525.0	11710.3	11942.0	12064.1	12342.2	12148.4	12198.9	12093.6	11722.9	11432.3
5°	11141.6	11137.4	11373.3	11946.2	12489.6	13041.4	13058.3	12763.4	12245.3	11676.6	10863.6
7.5°	10088.6	10252.8	10497.2	11411.2	12418.0	12830.8	13028.8	12683.4	11887.2	11074.2	10193.9
10°	9292.4	9376.7	9789.5	10893.1	11630.3	12182.1	12304.2	12106.3	11495.5	10480.3	9494.6
12.5°	8833.3	8875.4	9359.8	10286.5	11065.8	11474.4	11533.4	11626.1	11188.0	10236.0	9052.3
15°	8837.5	8871.2	9524.1	10299.2	10606.7	10497.2	10690.9	10686.7	10876.3	10189.7	9423.0
17.5°	9473.6	9511.5	10101.2	10484.5	10349.7	10092.8	10080.1	10273.9	10674.1	10766.7	9983.2
20°	10568.8	10657.2	11091.1	11070.0	10311.8	9793.7	9650.5	9797.9	10728.8	11255.4	11112.2
22.5°	12043.1	12165.2	12468.5	11887.2	10484.5	9591.5	9545.2	9831.6	11091.1	12346.4	12392.7
25°	13753.3	13959.7	14107.1	13361.5	11099.5	9941.1	9722.1	10214.9	11579.7	13530.0	14022.9
27.5°	14886.4	15101.2	15067.5	14001.8	11512.3	10033.8	9848.5	10307.6	12005.2	13812.3	14873.8
30°	15771.0	15901.6	16137.5	14347.2	11925.1	10295.0	9979.0	10699.3	12144.2	14300.9	15901.6
32.5°	16803.0	16891.5	16908.3	14958.0	12561.2	10623.5	10383.4	11188.0	12759.2	14768.5	16811.5
35°	17843.5	17974.1	17700.3	15712.0	12952.9	11234.3	11057.4	12034.7	13252.0	15252.9	17814.0
37.5°	18972.4	19039.8	18407.9	16023.7	13513.2	12228.4	12131.5	12948.7	14107.1	16129.1	18926.0
40°	19920.2	19983.3	19161.9	16407.1	14102.9	13618.5	13867.0	14692.6	15269.7	16697.7	19482.1
42.5°	20446.7	20594.1	19414.7	16196.5	15286.6	15193.9	16297.5	16588.2	16617.7	16857.8	19979.1
45°	20589.9	20522.5	18997.7	16369.2	16322.8	17784.5	18787.0	19170.4	17957.2	17152.7	20105.5
47.5°	19928.6	20017.0	18382.7	16217.5	17683.4	19747.5	21044.9	21756.7	18955.5	16895.7	19793.8
50°	19393.6	19279.9	18184.7	16108.0	18049.9	20674.2	22675.0	22835.1	19873.8	17211.6	19452.6
52.5°	19498.9	19570.5	18500.6	16398.6	18058.3	20728.9	22927.8	22818.2	19903.3	17140.0	19330.4
55°	19722.2	19406.3	18365.8	15758.4	16849.4	19199.8	20349.8	20181.3	18370.0	16377.6	19031.4
57.5°	17017.9	17506.5	16887.3	14069.2	13829.1	14465.2	14444.1	14962.2	13702.7	14094.5	17325.4
60°	13812.3	13896.5	14128.2	12034.7	9570.4	9351.4	9048.1	8719.5	9220.8	12051.5	15758.4
62.5°	12148.4	12047.3	12872.9	10947.9	6756.6	5657.2	5606.6	5808.8	7114.6	11495.5	14781.1
65°	8829.1	8955.4	9553.6	8496.3	5071.7	4317.6	4241.8	4840.0	5758.3	9212.4	11280.6
67.5°	5391.8	5636.1	5690.9	5240.2	3441.5	2733.8	2624.3	3167.7	4157.6	5960.5	6613.4
70°	2489.5	2784.4	3062.4	2860.2	1992.4	1124.7	1061.5	1331.1	2097.7	3428.8	3508.9
72.5°	754.0	758.2	1061.5	1107.8	644.5	252.7	223.3	294.9	711.9	1133.1	1192.1
75°	54.8	59.0	143.2	164.3	122.2	63.2	67.4	80.0	151.6	252.7	189.6
77.5°	4.2	4.2	4.2	21.1	37.9	42.1	54.8	63.2	80.0	92.7	84.2
80°	4.2	0.0	4.2	16.8	29.5	42.1	50.5	59.0	63.2	71.6	63.2
82.5°	0.0	0.0	0.0	12.6	29.5	42.1	46.3	63.2	71.6	84.2	71.6
85°	0.0	0.0	0.0	12.6	29.5	46.3	42.1	21.1	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°	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4
2.5°	11482.8	11318.6	10943.7	10754.1	10307.6	10244.4	9806.3	9734.7	9587.3	9507.3	9313.5
5°	10505.6	10307.6	9696.8	9182.9	8584.8	8167.7	7847.6	7556.9	7388.4	7232.6	7304.2
7.5°	9709.4	9132.4	8454.2	7594.9	6904.0	6457.5	5968.9	5568.7	5332.8	5172.8	5210.7
10°	8875.4	8500.5	7556.9	6592.3	5758.3	5442.3	5059.0	4751.5	4418.7	4132.3	3997.5
12.5°	8614.2	8058.2	6874.5	5893.1	5261.2	4953.7	4515.6	4161.8	3736.3	3386.7	3264.6
15°	8660.6	8125.6	6689.2	5640.3	4894.7	4364.0	3841.7	3403.6	2936.0	2691.7	2565.3
17.5°	9414.6	8487.9	6811.4	5374.9	4385.0	3647.9	3003.4	2447.4	2097.7	1845.0	1790.2
20°	10341.3	9271.4	7072.5	5181.2	3968.0	2902.3	2194.6	1714.4	1423.8	1381.6	1369.0
22.5°	11697.7	10551.9	7632.8	5050.6	3458.3	2262.0	1503.8	1246.9	1166.8	1158.4	1162.6
25°	13593.2	12156.8	8243.6	4941.1	3075.0	1743.9	1230.0	1057.3	1032.0	1019.4	1040.4
27.5°	14414.6	13125.7	8567.9	4705.2	2725.4	1571.2	1213.2	1048.9	977.3	956.2	968.8
30°	15429.8	13770.1	9077.6	4300.8	2211.5	1293.2	1133.1	1141.5	1107.8	1002.5	968.8
32.5°	16777.8	14574.7	9334.5	4014.4	1975.6	1069.9	829.8	762.4	850.9	867.7	897.2
35°	17641.3	15391.9	9465.1	3845.9	1853.4	914.1	703.5	640.3	619.2	623.4	640.3
37.5°	19246.2	16495.5	9629.4	3668.9	1760.8	796.1	636.1	577.1	547.6	547.6	564.5
40°	20206.6	17371.7	9852.7	3572.1	1668.1	724.5	577.1	526.5	501.3	501.3	509.7
42.5°	20446.7	17805.6	9776.8	3538.4	1562.8	707.7	526.5	488.6	459.1	454.9	450.7
45°	20876.4	18466.9	9789.5	3500.5	1453.3	644.5	497.1	454.9	412.8	408.6	404.4
47.5°	21348.1	18942.9	9814.8	3353.0	1347.9	539.2	518.1	421.2	370.7	362.3	362.3
50°	20943.8	19322.0	10033.8	3205.6	1213.2	438.1	509.7	396.0	328.6	315.9	320.1
52.5°	20994.3	19768.5	10497.2	2999.2	1044.7	349.6	412.8	374.9	299.1	278.0	282.2
55°	20185.5	19296.7	10560.3	2780.1	817.2	269.6	315.9	328.6	252.7	244.3	244.3
57.5°	17375.9	16339.7	9317.7	2253.6	539.2	223.3	227.5	286.4	219.0	210.6	214.8
60°	14869.6	13117.2	7498.0	1487.0	337.0	176.9	164.3	290.7	193.8	189.6	202.2
62.5°	13555.3	10779.4	5686.7	922.5	231.7	134.8	113.7	235.9	168.5	168.5	185.3
65°	9793.7	7241.0	3306.7	484.4	164.3	105.3	84.2	134.8	139.0	143.2	151.6
67.5°	6065.8	3656.3	1394.3	235.9	109.5	71.6	54.8	84.2	92.7	92.7	101.1
70°	2995.0	1457.5	463.4	134.8	84.2	59.0	37.9	46.3	46.3	42.1	46.3
72.5°	926.7	438.1	117.9	84.2	59.0	37.9	21.1	16.8	8.4	0.0	4.2
75°	105.3	84.2	75.8	59.0	37.9	16.8	4.2	0.0	0.0	0.0	0.0
77.5°	63.2	71.6	71.6	59.0	37.9	12.6	0.0	0.0	0.0	0.0	0.0
80°	50.5	54.8	59.0	54.8	33.7	16.8	0.0	0.0	0.0	0.0	0.0
82.5°	63.2	71.6	80.0	71.6	46.3	21.1	8.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.6	4.2	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°	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4
2.5°	9233.5	9140.8	9271.4	9077.6	9073.4	9077.6	9022.8	8972.3	9052.3	9267.1	9288.2
5°	7047.2	7245.2	7308.4	7514.8	7401.1	7232.6	7266.3	7152.6	7430.6	7552.7	7455.8
7.5°	5130.6	5118.0	5543.4	5568.7	5623.5	5627.7	5619.3	5396.0	5168.5	5219.1	5370.7
10°	3980.7	3765.8	3972.2	3951.2	4086.0	4048.1	4102.8	3862.7	3942.8	3942.8	4039.6
12.5°	3243.5	3016.0	2978.1	2923.4	2978.1	2999.2	3020.2	2973.9	3108.7	3171.9	3239.3
15°	2476.9	2350.5	2316.8	2211.5	2228.3	2287.3	2337.8	2358.9	2316.8	2413.7	2422.1
17.5°	1798.7	1794.5	1815.5	1811.3	1794.5	1781.8	1777.6	1722.8	1706.0	1714.4	1748.1
20°	1364.8	1398.5	1470.1	1541.7	1579.6	1533.3	1470.1	1377.4	1339.5	1347.9	1352.2
22.5°	1166.8	1217.4	1314.3	1394.3	1432.2	1347.9	1234.2	1154.2	1137.3	1133.1	1128.9
25°	1057.3	1116.3	1187.9	1213.2	1208.9	1158.4	1074.1	1040.4	1032.0	1023.6	985.7
27.5°	998.3	1019.4	1032.0	1061.5	1074.1	1040.4	1019.4	968.8	960.4	960.4	935.1
30°	964.6	952.0	968.8	947.8	964.6	939.4	943.6	943.6	922.5	930.9	930.9
32.5°	897.2	901.4	901.4	859.3	872.0	842.5	872.0	897.2	901.4	905.7	939.4
35°	657.1	732.9	770.9	770.9	783.5	762.4	758.2	728.7	690.8	652.9	636.1
37.5°	577.1	606.6	657.1	686.6	707.7	690.8	652.9	606.6	585.5	568.7	551.8
40°	513.9	539.2	572.9	606.6	648.7	627.6	568.7	547.6	522.3	522.3	505.5
42.5°	463.4	476.0	497.1	547.6	593.9	551.8	509.7	492.8	480.2	476.0	471.8
45°	417.0	421.2	442.3	484.4	539.2	497.1	454.9	433.9	438.1	442.3	438.1
47.5°	374.9	383.3	396.0	446.5	480.2	459.1	412.8	400.2	400.2	400.2	404.4
50°	324.4	345.4	370.7	412.8	438.1	425.4	387.5	370.7	362.3	362.3	366.5
52.5°	290.7	307.5	341.2	391.7	425.4	404.4	366.5	341.2	324.4	320.1	328.6
55°	252.7	282.2	337.0	374.9	421.2	400.2	358.0	328.6	299.1	294.9	294.9
57.5°	227.5	273.8	324.4	370.7	408.6	391.7	358.0	320.1	282.2	278.0	278.0
60°	214.8	265.4	315.9	358.0	408.6	383.3	353.8	311.7	269.6	269.6	265.4
62.5°	202.2	248.5	299.1	341.2	391.7	370.7	341.2	299.1	257.0	257.0	248.5
65°	168.5	214.8	248.5	286.4	341.2	320.1	290.7	261.2	227.5	219.0	223.3
67.5°	117.9	147.4	181.1	219.0	252.7	244.3	231.7	210.6	181.1	176.9	172.7
70°	59.0	80.0	109.5	147.4	176.9	168.5	160.1	143.2	126.4	122.2	122.2
72.5°	8.4	25.3	46.3	67.4	92.7	96.9	92.7	88.5	84.2	80.0	84.2
75°	0.0	0.0	0.0	16.8	37.9	46.3	54.8	63.2	63.2	54.8	67.4
77.5°	0.0	0.0	0.0	0.0	4.2	21.1	42.1	54.8	67.4	59.0	80.0
80°	0.0	0.0	0.0	0.0	4.2	25.3	42.1	59.0	67.4	59.0	84.2
82.5°	0.0	0.0	0.0	0.0	4.2	29.5	42.1	54.8	63.2	59.0	75.8
85°	0.0	0.0	0.0	0.0	12.6	25.3	16.8	8.4	4.2	4.2	12.6
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: P530601

CATALOG NUMBER: GALN-SA5D-750-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4	10859.4
2.5°	9406.2	9705.2	10025.4	10147.5	10526.6	10813.1	11006.8	11423.9	11487.1	11491.3
5°	7556.9	7708.6	8256.2	8513.1	9077.6	9515.7	9983.2	10657.2	11107.9	11141.6
7.5°	5370.7	5792.0	6023.6	6693.4	7388.4	8075.1	8770.1	9553.6	10075.9	10088.6
10°	4321.9	4595.7	5008.5	5509.7	6095.3	6794.5	7721.2	8631.1	9161.8	9292.4
12.5°	3479.4	3959.6	4431.4	4949.5	5396.0	5922.6	6920.9	8134.0	8572.1	8833.3
15°	2679.0	3117.1	3673.2	4279.7	4785.2	5488.7	6626.0	8011.9	8749.0	8837.5
17.5°	1975.6	2367.3	2881.2	3454.1	4212.3	5210.7	6676.6	8631.1	9326.1	9473.6
20°	1419.6	1647.0	2051.4	2717.0	3681.6	4886.3	6727.1	9258.7	10316.0	10568.8
22.5°	1124.7	1217.4	1482.7	2072.5	3087.6	4545.1	7085.2	10459.2	11676.6	12043.1
25°	977.3	1027.8	1154.2	1634.4	2712.7	4511.4	7658.0	11899.9	13487.9	13753.3
27.5°	943.6	952.0	1061.5	1499.6	2510.6	4288.2	7877.1	12923.5	14616.8	14886.4
30°	994.1	1128.9	1137.3	1267.9	2135.7	3845.9	7990.8	13913.4	15573.0	15771.0
32.5°	859.3	817.2	846.7	981.5	1878.7	3588.9	8205.6	14776.9	16664.0	16803.0
35°	598.2	627.6	695.0	850.9	1642.8	3319.3	8260.4	15728.9	17700.3	17843.5
37.5°	551.8	568.7	623.4	724.5	1444.8	3167.7	8184.6	16423.9	18774.4	18972.4
40°	513.9	535.0	564.5	657.1	1297.4	2999.2	8079.3	17051.6	19431.5	19920.2
42.5°	484.4	501.3	526.5	627.6	1171.0	2830.7	7931.8	17936.1	20021.3	20446.7
45°	450.7	476.0	505.5	610.8	1099.4	2717.0	7822.3	17881.4	20362.5	20589.9
47.5°	417.0	459.1	492.8	568.7	1078.4	2662.2	7868.7	17675.0	20084.4	19928.6
50°	383.3	438.1	497.1	471.8	1027.8	2552.7	7923.4	17957.2	19423.1	19393.6
52.5°	353.8	417.0	463.4	387.5	914.1	2447.4	8454.2	18327.9	19890.7	19498.9
55°	311.7	374.9	370.7	311.7	741.4	2367.3	8871.2	18336.3	19574.7	19722.2
57.5°	282.2	332.8	290.7	261.2	547.6	1979.8	8193.0	15375.0	16756.7	17017.9
60°	261.2	324.4	219.0	206.4	358.0	1428.0	7152.6	11908.3	13319.4	13812.3
62.5°	240.1	307.5	172.7	168.5	248.5	1015.2	5880.4	9966.4	11478.6	12148.4
65°	210.6	219.0	139.0	130.6	176.9	547.6	3580.5	6861.9	8580.5	8829.1
67.5°	172.7	168.5	113.7	105.3	117.9	265.4	1579.6	3437.3	4974.8	5391.8
70°	139.0	139.0	96.9	84.2	84.2	122.2	412.8	1369.0	2249.4	2489.5
72.5°	101.1	105.3	75.8	67.4	63.2	59.0	67.4	273.8	589.7	754.0
75°	88.5	92.7	75.8	59.0	46.3	37.9	29.5	25.3	33.7	54.8
77.5°	96.9	96.9	80.0	54.8	42.1	29.5	16.8	8.4	8.4	4.2
80°	122.2	126.4	105.3	71.6	50.5	33.7	21.1	8.4	4.2	4.2
82.5°	130.6	143.2	117.9	88.5	63.2	37.9	21.1	4.2	0.0	0.0
85°	33.7	54.8	92.7	80.0	63.2	37.9	21.1	4.2	0.0	0.0
87.5°	0.0	4.2	12.6	12.6	16.8	16.8	12.6	4.2	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)