

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: P529197

Luminaire Tested: **GALN-SA4B-750-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529197
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-SA4B-750-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 12444 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

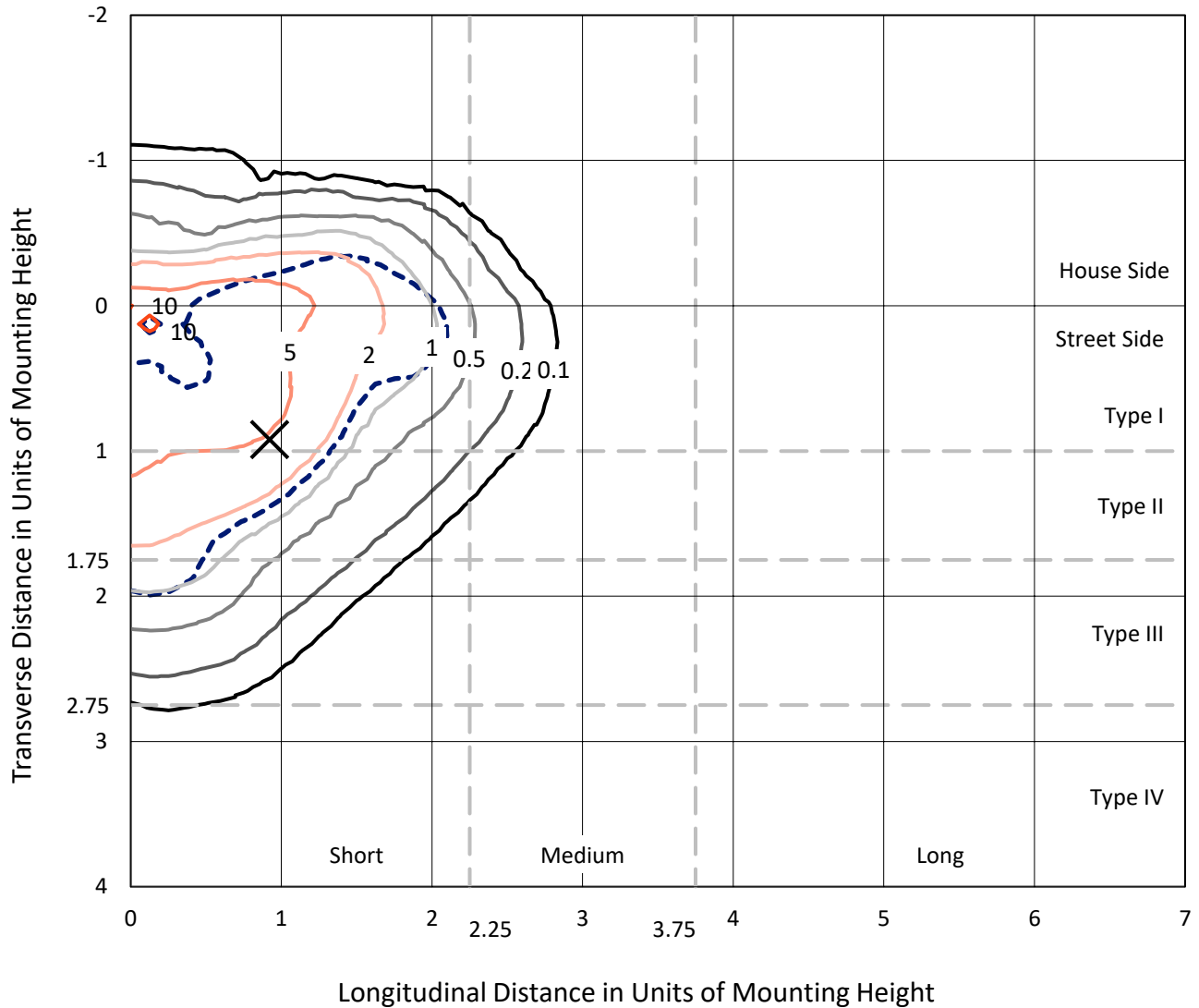
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

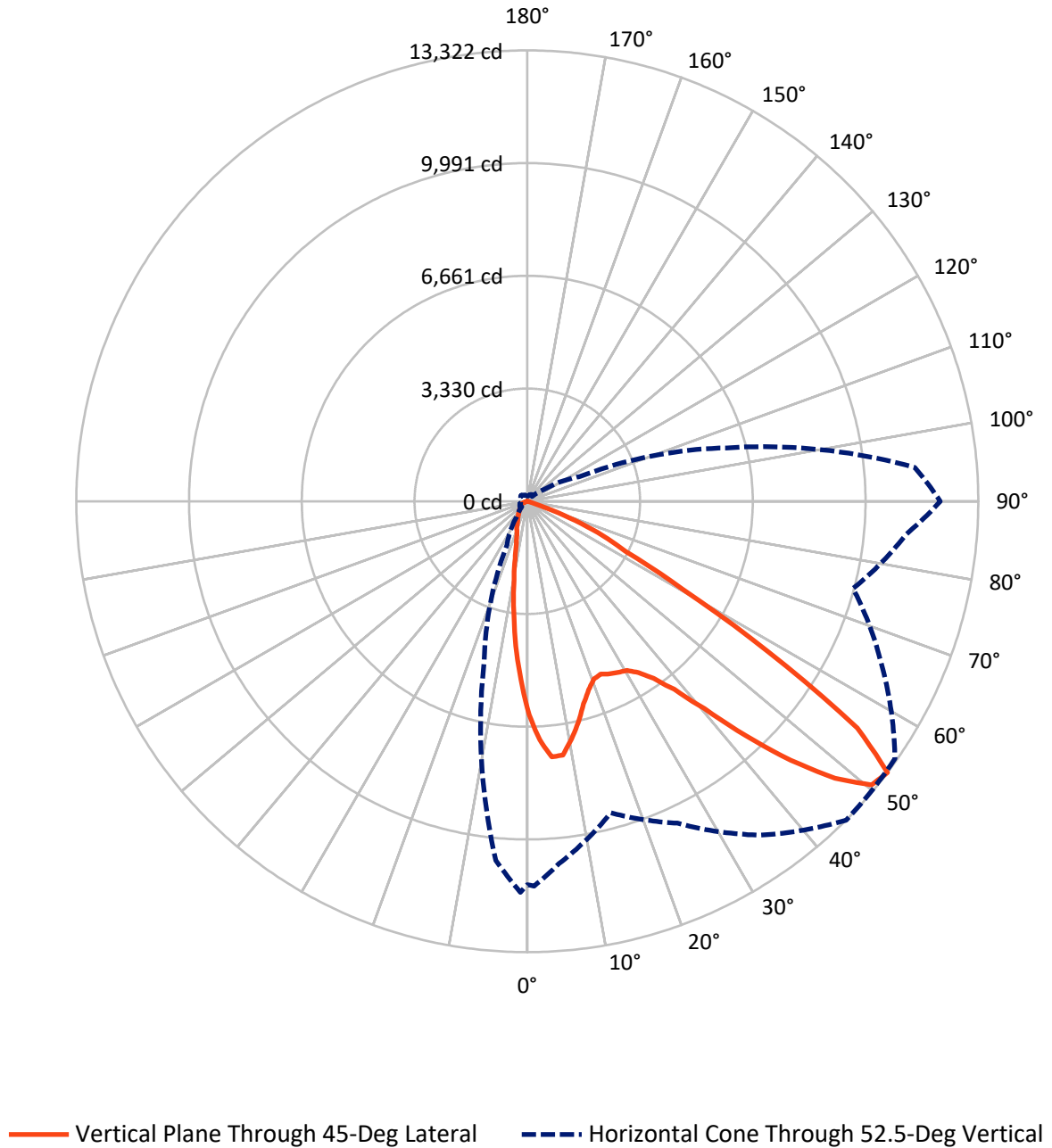
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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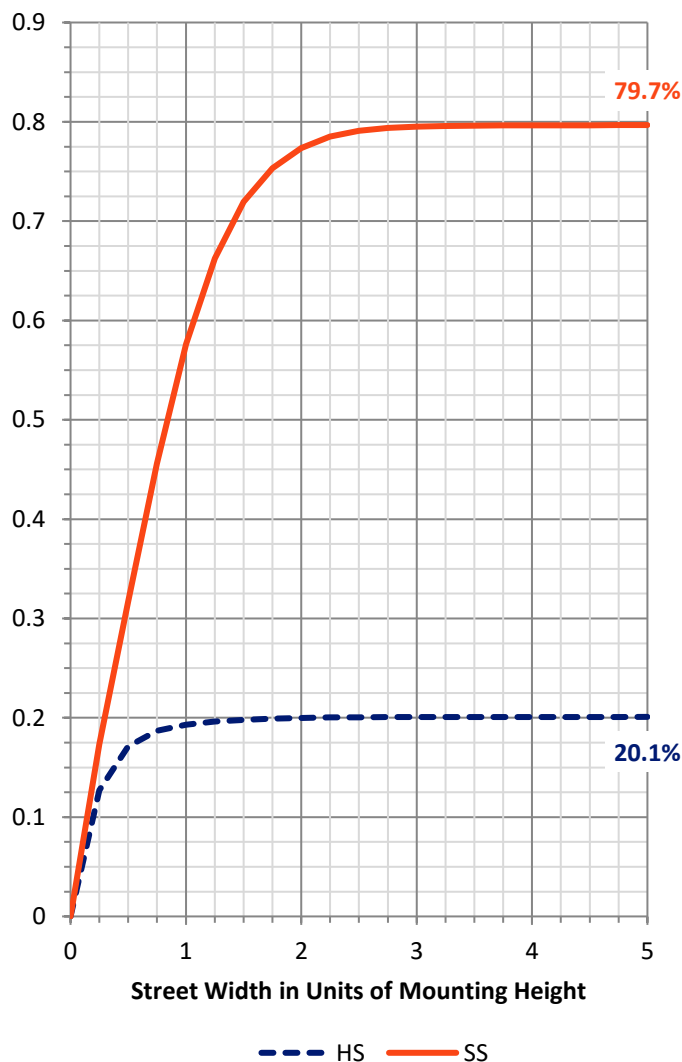
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2525.5	0.0	2525.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9918.5	0.0	9918.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	12444.0	0.0	12444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.2	3.7
10°-20°	907.9	7.3
20°-30°	1381.6	11.1
30°-40°	2065.0	16.6
40°-50°	2940.8	23.6
50°-60°	3161.2	25.4
60°-70°	1400.8	11.3
70°-80°	113.3	0.9
80°-90°	13.2	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°	12444.0	100.0
0°-180°	12444.0	100.0

Coefficient of Utilization



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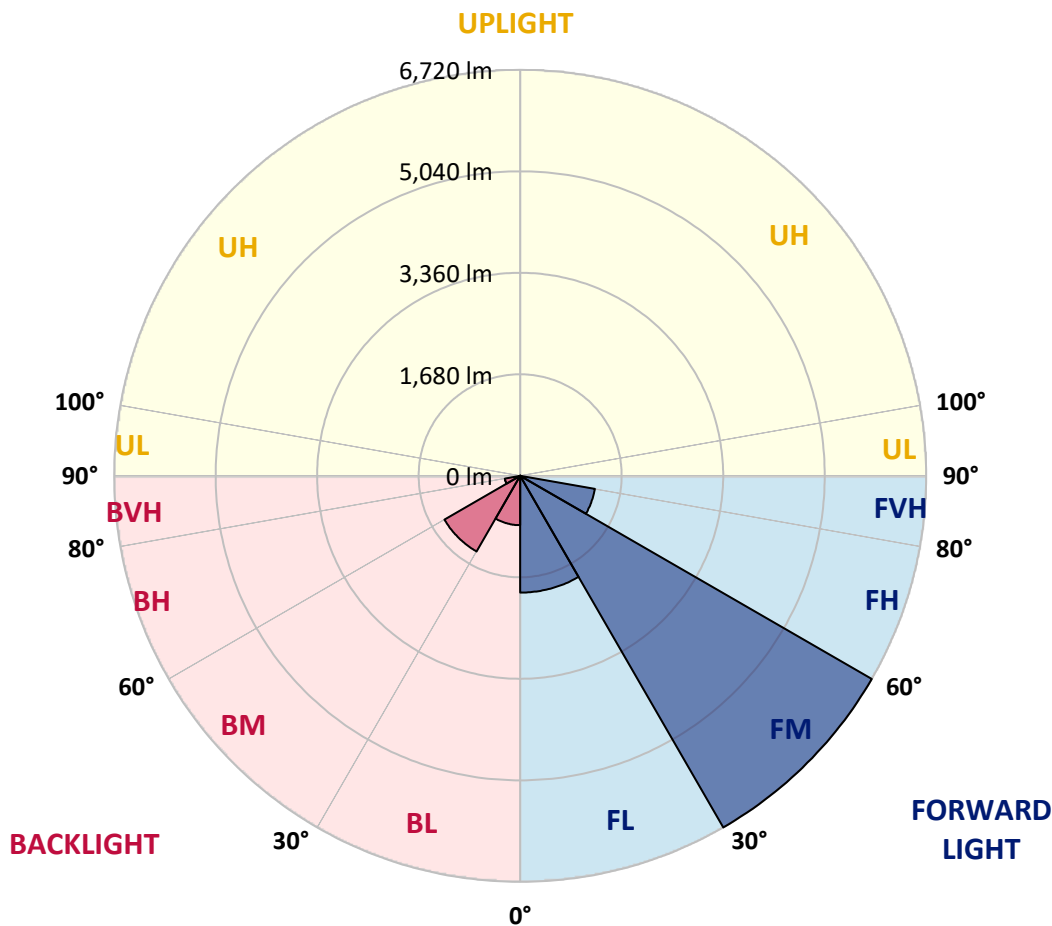
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.8	15.5			
FM (30°-60°)	6720.1	54.0			
FH (60°-80°)	1255.7	10.1			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	816.8	6.6	B2/1000		
BM (30°-60°)	1446.8	11.6	B2/2500		
BH (60°-80°)	258.4	2.1	B1/500		G1/500
BVH (80°-90°)	3.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7
2.5°	6676.8	6696.4	6804.1	6938.7	7009.7	7171.2	7058.6	7088.0	7026.8	6811.4	6642.5
5°	6473.7	6471.2	6608.3	6941.1	7256.9	7577.5	7587.3	7416.0	7114.9	6784.5	6312.1
7.5°	5861.8	5957.2	6099.2	6630.3	7215.3	7455.1	7570.2	7369.5	6906.9	6434.5	5923.0
10°	5399.2	5448.2	5688.0	6329.3	6757.6	7078.2	7149.2	7034.2	6679.3	6089.4	5516.7
12.5°	5132.4	5156.9	5438.4	5976.8	6429.6	6667.0	6701.3	6755.1	6500.6	5947.5	5259.7
15°	5134.9	5154.5	5533.8	5984.2	6162.8	6099.2	6211.8	6209.3	6319.5	5920.5	5475.1
17.5°	5504.5	5526.5	5869.1	6091.9	6013.5	5864.2	5856.9	5969.5	6202.0	6255.8	5800.6
20°	6140.8	6192.2	6444.3	6432.1	5991.5	5690.5	5607.3	5692.9	6233.8	6539.8	6456.5
22.5°	6997.4	7068.4	7244.6	6906.9	6091.9	5573.0	5546.1	5712.5	6444.3	7173.7	7200.6
25°	7991.1	8111.1	8196.7	7763.5	6449.2	5776.1	5648.9	5935.2	6728.2	7861.4	8147.8
27.5°	8649.5	8774.3	8754.8	8135.5	6689.1	5830.0	5722.3	5989.1	6975.4	8025.4	8642.2
30°	9163.5	9239.4	9376.4	8336.2	6928.9	5981.7	5798.2	6216.7	7056.2	8309.3	9239.4
32.5°	9763.1	9814.5	9824.3	8691.1	7298.5	6172.6	6033.1	6500.6	7413.5	8581.0	9768.0
35°	10367.7	10443.5	10284.4	9129.2	7526.1	6527.5	6424.7	6992.5	7699.9	8862.4	10350.5
37.5°	11023.6	11062.8	10695.6	9310.3	7851.6	7105.1	7048.8	7523.7	8196.7	9371.5	10996.7
40°	11574.3	11611.0	11133.7	9533.1	8194.3	7912.8	8057.2	8536.9	8872.2	9701.9	11319.7
42.5°	11880.2	11965.9	11280.6	9410.7	8882.0	8828.2	9469.4	9638.3	9655.4	9794.9	11608.6
45°	11963.4	11924.3	11038.3	9511.0	9484.1	10333.4	10915.9	11138.6	10433.7	9966.3	11682.0
47.5°	11579.2	11630.6	10680.9	9422.9	10274.7	11473.9	12227.8	12641.4	11013.8	9817.0	11500.9
50°	11268.3	11202.3	10565.9	9359.3	10487.6	12012.4	13175.0	13268.0	11547.4	10000.5	11302.6
52.5°	11329.5	11371.1	10749.5	9528.2	10492.5	12044.2	13321.8	13258.2	11564.5	9958.9	11231.6
55°	11459.3	11275.7	10671.2	9156.1	9790.0	11155.8	11823.9	11726.0	10673.6	9515.9	11057.9
57.5°	9887.9	10171.9	9812.1	8174.7	8035.2	8404.8	8392.5	8693.6	7961.8	8189.4	10066.6
60°	8025.4	8074.3	8209.0	6992.5	5560.7	5433.5	5257.3	5066.4	5357.6	7002.3	9156.1
62.5°	7058.6	6999.9	7479.6	6361.1	3925.8	3287.0	3257.6	3375.1	4133.8	6679.3	8588.3
65°	5130.0	5203.4	5551.0	4936.6	2946.8	2508.7	2464.6	2812.2	3345.7	5352.7	6554.4
67.5°	3132.8	3274.8	3306.6	3044.7	1999.6	1588.4	1524.8	1840.5	2415.7	3463.2	3842.6
70°	1446.5	1617.8	1779.3	1661.9	1157.7	653.5	616.8	773.4	1218.9	1992.3	2038.8
72.5°	438.1	440.6	616.8	643.7	374.5	146.9	129.7	171.3	413.6	658.4	692.6
75°	31.8	34.3	83.2	95.5	71.0	36.7	39.2	46.5	88.1	146.9	110.1
77.5°	2.4	2.4	2.4	12.2	22.0	24.5	31.8	36.7	46.5	53.8	49.0
80°	2.4	0.0	2.4	9.8	17.1	24.5	29.4	34.3	36.7	41.6	36.7
82.5°	0.0	0.0	0.0	7.3	17.1	24.5	26.9	36.7	41.6	49.0	41.6
85°	0.0	0.0	0.0	7.3	17.1	26.9	24.5	12.2	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°	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7
2.5°	6671.9	6576.5	6358.6	6248.5	5989.1	5952.3	5697.8	5656.2	5570.5	5524.0	5411.4
5°	6104.1	5989.1	5634.2	5335.6	4988.0	4745.7	4559.7	4390.8	4292.9	4202.4	4244.0
7.5°	5641.5	5306.2	4912.2	4412.9	4011.5	3752.0	3468.1	3235.6	3098.6	3005.5	3027.6
10°	5156.9	4939.1	4390.8	3830.4	3345.7	3162.2	2939.5	2760.8	2567.4	2401.0	2322.7
12.5°	5005.2	4682.1	3994.3	3424.1	3056.9	2878.3	2623.7	2418.1	2170.9	1967.8	1896.8
15°	5032.1	4721.3	3886.6	3277.2	2844.0	2535.6	2232.1	1977.6	1705.9	1564.0	1490.5
17.5°	5470.2	4931.7	3957.6	3123.0	2547.9	2119.5	1745.1	1422.0	1218.9	1072.0	1040.2
20°	6008.6	5387.0	4109.4	3010.4	2305.6	1686.3	1275.2	996.1	827.3	802.8	795.4
22.5°	6796.7	6131.0	4434.9	2934.6	2009.4	1314.3	873.8	724.5	678.0	673.1	675.5
25°	7898.1	7063.5	4789.8	2870.9	1786.7	1013.3	714.7	614.3	599.6	592.3	604.5
27.5°	8375.4	7626.4	4978.2	2733.9	1583.5	912.9	704.9	609.4	567.8	555.6	562.9
30°	8965.2	8000.9	5274.4	2498.9	1284.9	751.4	658.4	663.3	643.7	582.5	562.9
32.5°	9748.4	8468.4	5423.7	2332.5	1147.9	621.7	482.2	443.0	494.4	504.2	521.3
35°	10250.2	8943.2	5499.6	2234.6	1076.9	531.1	408.7	372.0	359.8	362.2	372.0
37.5°	11182.7	9584.5	5595.0	2131.8	1023.1	462.6	369.6	335.3	318.2	318.2	328.0
40°	11740.7	10093.5	5724.7	2075.5	969.2	421.0	335.3	305.9	291.3	291.3	296.1
42.5°	11880.2	10345.6	5680.7	2055.9	908.0	411.2	305.9	283.9	266.8	264.3	261.9
45°	12129.9	10729.9	5688.0	2033.9	844.4	374.5	288.8	264.3	239.9	237.4	235.0
47.5°	12404.0	11006.5	5702.7	1948.2	783.2	313.3	301.0	244.8	215.4	210.5	210.5
50°	12169.0	11226.7	5830.0	1862.6	704.9	254.5	296.1	230.1	190.9	183.6	186.0
52.5°	12198.4	11486.2	6099.2	1742.6	607.0	203.1	239.9	217.8	173.8	161.5	164.0
55°	11728.5	11212.1	6135.9	1615.4	474.8	156.6	183.6	190.9	146.9	142.0	142.0
57.5°	10096.0	9493.9	5413.9	1309.4	313.3	129.7	132.2	166.4	127.3	122.4	124.8
60°	8639.7	7621.6	4356.6	864.0	195.8	102.8	95.5	168.9	112.6	110.1	117.5
62.5°	7876.1	6263.2	3304.1	536.0	134.6	78.3	66.1	137.1	97.9	97.9	107.7
65°	5690.5	4207.3	1921.3	281.5	95.5	61.2	49.0	78.3	80.8	83.2	88.1
67.5°	3524.4	2124.4	810.1	137.1	63.6	41.6	31.8	49.0	53.8	53.8	58.7
70°	1740.2	846.8	269.2	78.3	49.0	34.3	22.0	26.9	26.9	24.5	26.9
72.5°	538.5	254.5	68.5	49.0	34.3	22.0	12.2	9.8	4.9	0.0	2.4
75°	61.2	49.0	44.1	34.3	22.0	9.8	2.4	0.0	0.0	0.0	0.0
77.5°	36.7	41.6	41.6	34.3	22.0	7.3	0.0	0.0	0.0	0.0	0.0
80°	29.4	31.8	34.3	31.8	19.6	9.8	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	41.6	46.5	41.6	26.9	12.2	4.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.3	2.4	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°	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7
2.5°	5364.9	5311.1	5387.0	5274.4	5271.9	5274.4	5242.6	5213.2	5259.7	5384.5	5396.8
5°	4094.7	4209.7	4246.4	4366.4	4300.3	4202.4	4222.0	4155.9	4317.4	4388.4	4332.1
7.5°	2981.1	2973.7	3220.9	3235.6	3267.4	3269.9	3265.0	3135.3	3003.1	3032.5	3120.6
10°	2312.9	2188.1	2308.0	2295.8	2374.1	2352.1	2383.9	2244.4	2290.9	2290.9	2347.2
12.5°	1884.6	1752.4	1730.4	1698.6	1730.4	1742.6	1754.9	1727.9	1806.3	1843.0	1882.1
15°	1439.1	1365.7	1346.1	1284.9	1294.7	1329.0	1358.4	1370.6	1346.1	1402.4	1407.3
17.5°	1045.1	1042.6	1054.9	1052.4	1042.6	1035.3	1032.9	1001.0	991.2	996.1	1015.7
20°	793.0	812.6	854.2	895.8	917.8	890.9	854.2	800.3	778.3	783.2	785.7
22.5°	678.0	707.3	763.6	810.1	832.2	783.2	717.1	670.6	660.8	658.4	655.9
25°	614.3	648.6	690.2	704.9	702.4	673.1	624.1	604.5	599.6	594.7	572.7
27.5°	580.1	592.3	599.6	616.8	624.1	604.5	592.3	562.9	558.0	558.0	543.3
30°	560.5	553.1	562.9	550.7	560.5	545.8	548.2	548.2	536.0	540.9	540.9
32.5°	521.3	523.8	523.8	499.3	506.6	489.5	506.6	521.3	523.8	526.2	545.8
35°	381.8	425.9	447.9	447.9	455.2	443.0	440.6	423.4	401.4	379.4	369.6
37.5°	335.3	352.4	381.8	398.9	411.2	401.4	379.4	352.4	340.2	330.4	320.6
40°	298.6	313.3	332.9	352.4	376.9	364.7	330.4	318.2	303.5	303.5	293.7
42.5°	269.2	276.6	288.8	318.2	345.1	320.6	296.1	286.4	279.0	276.6	274.1
45°	242.3	244.8	257.0	281.5	313.3	288.8	264.3	252.1	254.5	257.0	254.5
47.5°	217.8	222.7	230.1	259.4	279.0	266.8	239.9	232.5	232.5	232.5	235.0
50°	188.5	200.7	215.4	239.9	254.5	247.2	225.2	215.4	210.5	210.5	212.9
52.5°	168.9	178.7	198.2	227.6	247.2	235.0	212.9	198.2	188.5	186.0	190.9
55°	146.9	164.0	195.8	217.8	244.8	232.5	208.0	190.9	173.8	171.3	171.3
57.5°	132.2	159.1	188.5	215.4	237.4	227.6	208.0	186.0	164.0	161.5	161.5
60°	124.8	154.2	183.6	208.0	237.4	222.7	205.6	181.1	156.6	156.6	154.2
62.5°	117.5	144.4	173.8	198.2	227.6	215.4	198.2	173.8	149.3	149.3	144.4
65°	97.9	124.8	144.4	166.4	198.2	186.0	168.9	151.7	132.2	127.3	129.7
67.5°	68.5	85.7	105.2	127.3	146.9	142.0	134.6	122.4	105.2	102.8	100.3
70°	34.3	46.5	63.6	85.7	102.8	97.9	93.0	83.2	73.4	71.0	71.0
72.5°	4.9	14.7	26.9	39.2	53.8	56.3	53.8	51.4	49.0	46.5	49.0
75°	0.0	0.0	0.0	9.8	22.0	26.9	31.8	36.7	36.7	31.8	39.2
77.5°	0.0	0.0	0.0	0.0	2.4	12.2	24.5	31.8	39.2	34.3	46.5
80°	0.0	0.0	0.0	0.0	2.4	14.7	24.5	34.3	39.2	34.3	49.0
82.5°	0.0	0.0	0.0	0.0	2.4	17.1	24.5	31.8	36.7	34.3	44.1
85°	0.0	0.0	0.0	0.0	7.3	14.7	9.8	4.9	2.4	2.4	7.3
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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CATALOG NUMBER: GALN-SA4B-750-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7	6309.7
2.5°	5465.3	5639.1	5825.1	5896.1	6116.3	6282.8	6395.3	6637.7	6674.4	6676.8
5°	4390.8	4478.9	4797.1	4946.4	5274.4	5528.9	5800.6	6192.2	6454.1	6473.7
7.5°	3120.6	3365.3	3499.9	3889.1	4292.9	4691.9	5095.7	5551.0	5854.4	5861.8
10°	2511.1	2670.2	2910.1	3201.3	3541.6	3947.8	4486.3	5015.0	5323.3	5399.2
12.5°	2021.6	2300.7	2574.8	2875.8	3135.3	3441.2	4021.3	4726.1	4980.7	5132.4
15°	1556.6	1811.2	2134.2	2486.7	2780.4	3189.1	3849.9	4655.2	5083.5	5134.9
17.5°	1147.9	1375.5	1674.1	2007.0	2447.5	3027.6	3879.3	5015.0	5418.8	5504.5
20°	824.8	957.0	1191.9	1578.6	2139.1	2839.1	3908.7	5379.6	5994.0	6140.8
22.5°	653.5	707.3	861.5	1204.2	1794.0	2640.9	4116.7	6077.2	6784.5	6997.4
25°	567.8	597.2	670.6	949.6	1576.2	2621.3	4449.6	6914.2	7836.9	7991.1
27.5°	548.2	553.1	616.8	871.3	1458.7	2491.6	4576.8	7509.0	8492.9	8649.5
30°	577.6	655.9	660.8	736.7	1240.9	2234.6	4642.9	8084.1	9048.5	9163.5
32.5°	499.3	474.8	491.9	570.3	1091.6	2085.3	4767.8	8585.9	9682.4	9763.1
35°	347.5	364.7	403.8	494.4	954.5	1928.6	4799.6	9139.0	10284.4	10367.7
37.5°	320.6	330.4	362.2	421.0	839.5	1840.5	4755.5	9542.9	10908.6	11023.6
40°	298.6	310.8	328.0	381.8	753.8	1742.6	4694.3	9907.5	11290.4	11574.3
42.5°	281.5	291.3	305.9	364.7	680.4	1644.7	4608.7	10421.5	11633.0	11880.2
45°	261.9	276.6	293.7	354.9	638.8	1578.6	4545.0	10389.7	11831.3	11963.4
47.5°	242.3	266.8	286.4	330.4	626.6	1546.8	4572.0	10269.8	11669.7	11579.2
50°	222.7	254.5	288.8	274.1	597.2	1483.2	4603.8	10433.7	11285.5	11268.3
52.5°	205.6	242.3	269.2	225.2	531.1	1422.0	4912.2	10649.1	11557.2	11329.5
55°	181.1	217.8	215.4	181.1	430.8	1375.5	5154.5	10654.0	11373.6	11459.3
57.5°	164.0	193.4	168.9	151.7	318.2	1150.3	4760.4	8933.4	9736.2	9887.9
60°	151.7	188.5	127.3	119.9	208.0	829.7	4155.9	6919.1	7739.0	8025.4
62.5°	139.5	178.7	100.3	97.9	144.4	589.9	3416.7	5790.8	6669.5	7058.6
65°	122.4	127.3	80.8	75.9	102.8	318.2	2080.4	3987.0	4985.6	5130.0
67.5°	100.3	97.9	66.1	61.2	68.5	154.2	917.8	1997.2	2890.5	3132.8
70°	80.8	80.8	56.3	49.0	49.0	71.0	239.9	795.4	1307.0	1446.5
72.5°	58.7	61.2	44.1	39.2	36.7	34.3	39.2	159.1	342.7	438.1
75°	51.4	53.8	44.1	34.3	26.9	22.0	17.1	14.7	19.6	31.8
77.5°	56.3	56.3	46.5	31.8	24.5	17.1	9.8	4.9	4.9	2.4
80°	71.0	73.4	61.2	41.6	29.4	19.6	12.2	4.9	2.4	2.4
82.5°	75.9	83.2	68.5	51.4	36.7	22.0	12.2	2.4	0.0	0.0
85°	19.6	31.8	53.8	46.5	36.7	22.0	12.2	2.4	0.0	0.0
87.5°	0.0	2.4	7.3	7.3	9.8	9.8	7.3	2.4	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)