

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: P648106

Luminaire Tested: **GALN-SA8A-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20765.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

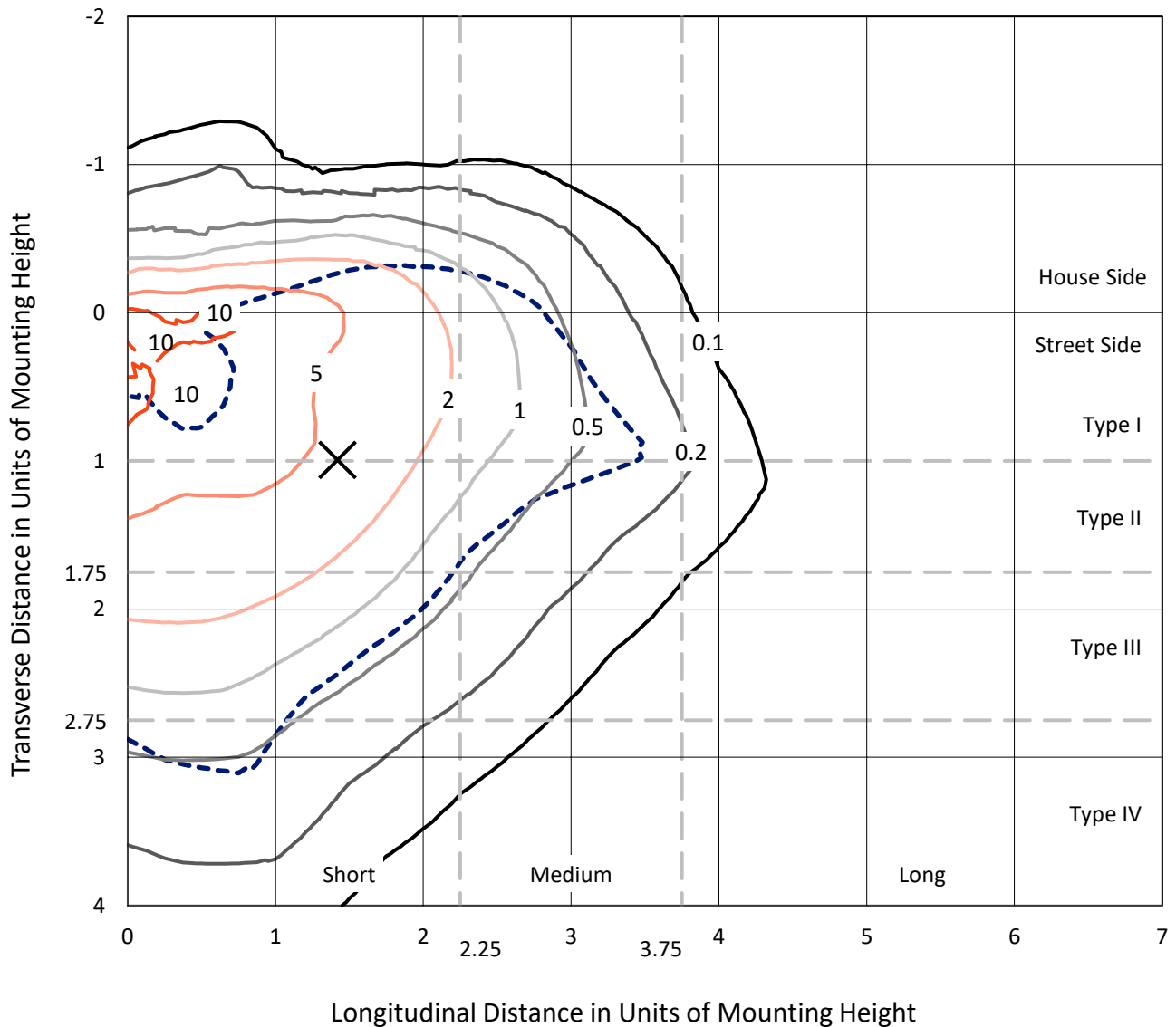
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

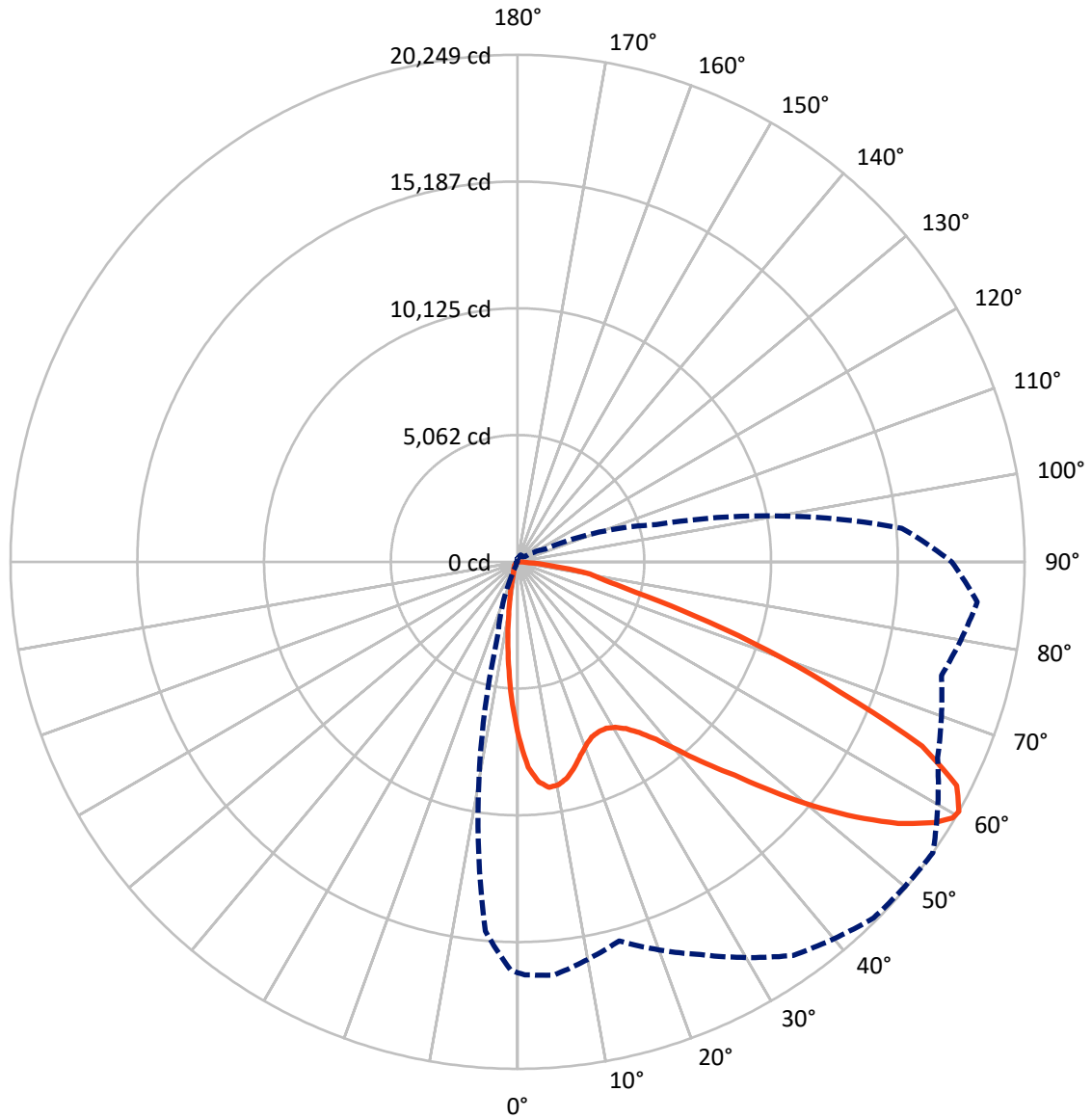
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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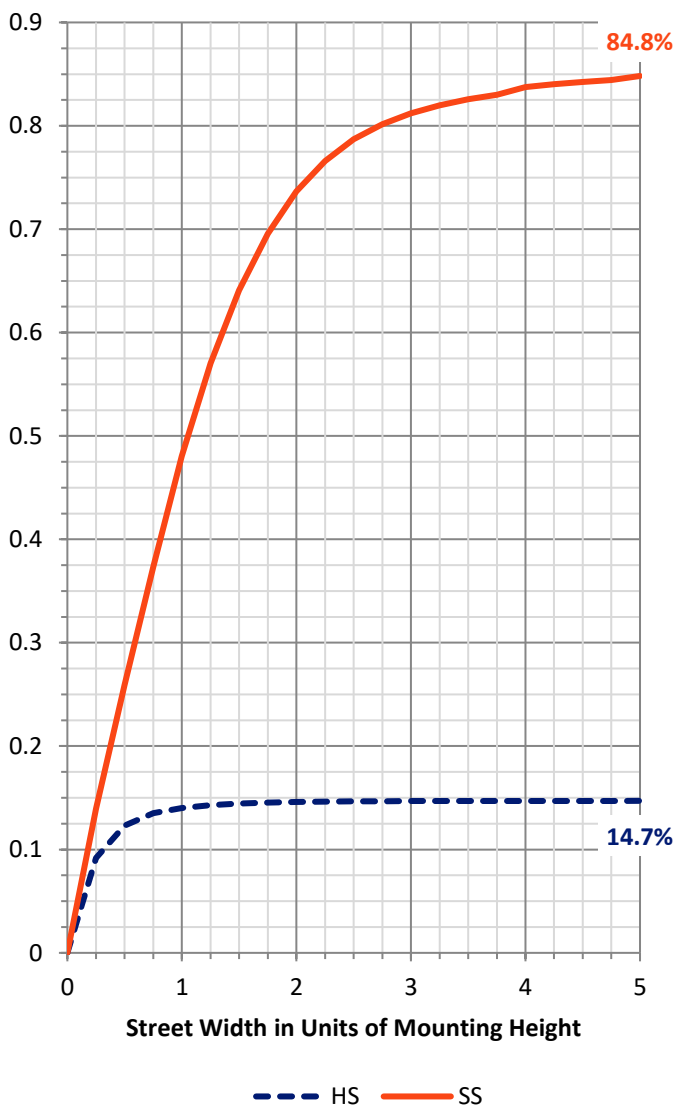
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3081.7	0.0	3081.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17683.4	0.0	17683.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	20765.2	0.0	20765.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.7	2.5
10°-20°	1025.3	4.9
20°-30°	1517.6	7.3
30°-40°	2262.2	10.9
40°-50°	3313.0	16.0
50°-60°	4782.9	23.0
60°-70°	5031.4	24.2
70°-80°	2069.7	10.0
80°-90°	242.4	1.2
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°	20765.2	100.0
0°-180°	20765.2	100.0

Coefficient of Utilization

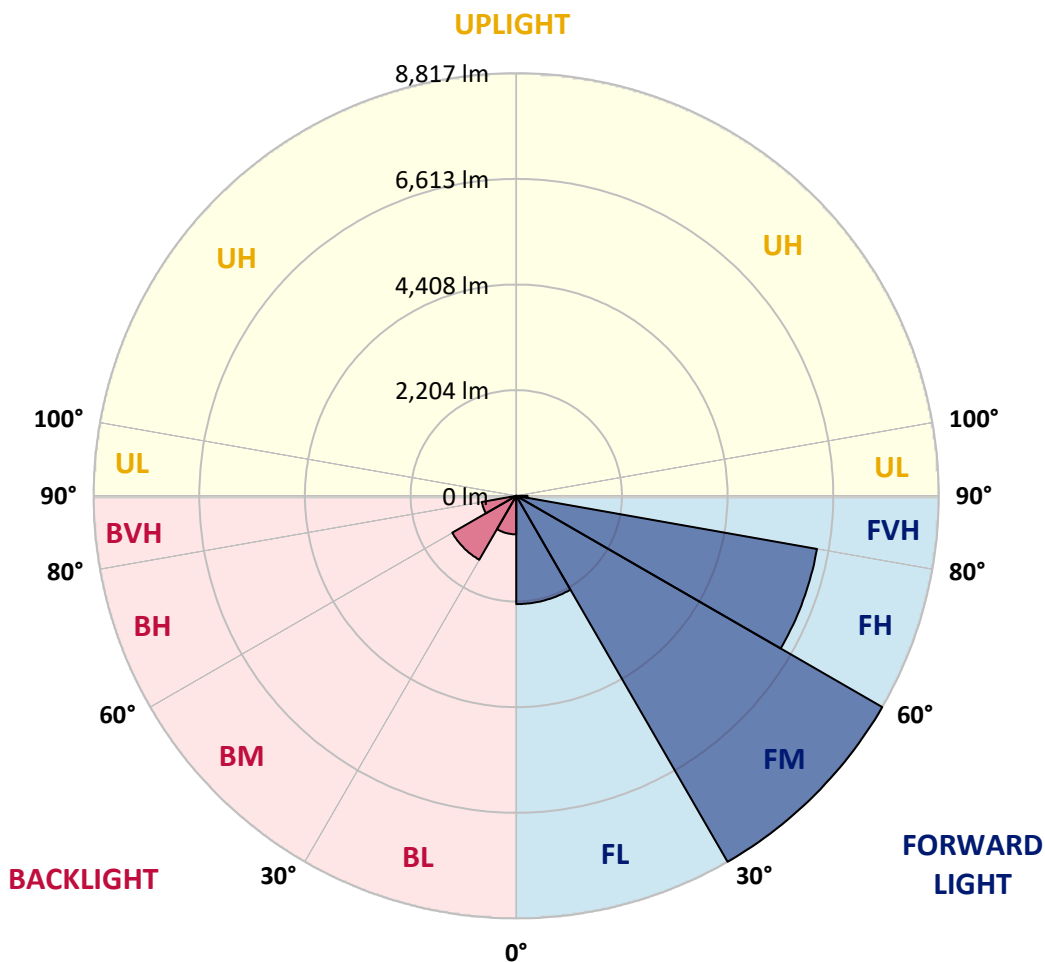


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.5	10.9			
FM (30°-60°)	8816.9	42.5			
FH (60°-80°)	6371.7	30.7			G3/7500
FVH (80°-90°)	235.3	1.1			G3/500
BL (0°-30°)	804.0	3.9	B2/1000		
BM (30°-60°)	1541.1	7.4	B2/2500		
BH (60°-80°)	729.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.1	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0
2.5°	7681.5	7668.8	7782.2	7967.7	8154.6	8252.1	8232.9	8224.9	8069.9	7956.5	7718.3
5°	7665.6	7731.1	7934.1	8436.0	8816.3	9000.2	9054.5	8826.0	8523.9	8085.9	7545.7
7.5°	7206.8	7288.3	7619.2	8404.0	9080.1	9479.6	9465.3	9099.2	8475.9	7798.2	7027.8
10°	6637.8	6733.7	7122.2	8074.8	8952.2	9479.6	9508.4	9044.9	8269.7	7400.2	6589.9
12.5°	6236.7	6350.1	6780.1	7767.8	8622.9	9142.4	9176.0	8840.3	8114.7	7246.8	6351.8
15°	6100.8	6207.9	6644.2	7612.8	8272.9	8552.6	8544.6	8509.5	8053.9	7283.5	6364.5
17.5°	6334.2	6422.1	6914.4	7683.1	7945.3	7916.5	7958.0	8127.5	8066.7	7592.0	6767.3
20°	6936.8	7026.3	7555.2	7898.9	7694.3	7512.1	7531.3	7814.2	8185.0	8172.2	7397.1
22.5°	7766.3	7918.1	8397.6	8317.7	7660.8	7261.2	7221.2	7588.8	8386.4	8840.3	8247.3
25°	8816.3	8969.8	9343.8	8985.8	7825.4	7202.0	7165.3	7520.1	8630.9	9492.5	9204.7
27.5°	9698.6	9815.3	10187.7	9636.3	8068.3	7227.6	7166.9	7529.7	8829.1	10047.1	10011.9
30°	10405.1	10491.4	10710.3	9940.0	8277.7	7339.5	7269.1	7670.3	8917.0	10317.2	10665.6
32.5°	10974.1	11119.5	11188.3	10264.4	8578.2	7550.5	7430.6	7940.5	9131.2	10651.2	11351.3
35°	11624.6	11792.4	11704.5	10574.5	8974.6	7879.7	7732.7	8378.4	9455.7	10959.7	12147.2
37.5°	12449.3	12642.7	12299.1	10900.5	9393.3	8375.2	8306.5	8993.8	9947.9	11400.9	13000.8
40°	13302.9	13414.7	12876.1	11297.0	9908.0	9096.0	9161.6	9908.0	10592.1	11929.9	13908.6
42.5°	13969.3	14074.8	13469.1	11629.4	10433.9	9951.1	10224.5	11010.9	11330.5	12471.7	14586.3
45°	14479.2	14568.7	13879.8	11992.2	11143.5	11189.9	11706.1	12147.2	12070.6	12802.6	15108.9
47.5°	14875.6	14952.3	14196.3	12382.2	12206.4	12705.0	13494.6	13681.7	12837.8	13160.6	15582.1
50°	15038.6	15061.0	14295.4	12879.3	13413.1	14635.8	15459.0	15345.5	13716.8	13558.6	16085.6
52.5°	15251.2	15246.4	14578.3	13352.4	14547.9	16362.0	17183.6	16926.3	14711.0	14154.8	16651.4
55°	15809.0	15815.4	15184.1	14023.7	15514.9	17755.8	18634.9	18447.9	15759.4	15161.7	17311.4
57.5°	16486.7	16510.7	16045.5	14808.5	16438.8	18765.9	19718.5	19646.6	17177.2	16282.1	17934.8
59°	16574.6	16622.5	16453.2	15361.5	16987.0	19076.0	20089.4	20159.7	17936.4	17020.5	18272.0
60°	16414.8	16494.7	16571.4	15674.8	17308.2	19187.9	20111.7	20249.2	18507.0	17522.4	18425.5
62.5°	15717.9	15844.2	16229.4	16638.5	17709.4	18839.4	19397.3	19684.9	19213.4	18841.0	18439.9
65°	14805.3	14870.8	15427.1	16809.6	16931.0	17212.4	17384.9	17754.2	18364.7	19349.3	17779.7
67.5°	13309.3	13502.6	14183.5	15817.0	14634.3	14301.8	14258.7	13891.0	15476.5	18137.8	16152.7
70°	10994.9	11081.2	11920.3	12967.2	11044.4	10532.9	10737.5	10600.1	11997.0	15614.0	13000.8
72.5°	8314.4	8509.5	9329.4	10336.4	7515.3	6852.0	7416.2	7365.1	9011.3	12548.4	8931.4
75°	5915.4	6041.6	7086.9	8089.1	5263.2	4459.3	4662.3	4852.5	6291.0	9908.0	5277.7
77.5°	4064.6	4173.2	4958.0	5349.6	3839.2	3677.8	3364.5	3548.2	4122.1	5878.6	2872.2
80°	2451.8	2447.0	2963.3	3059.2	2674.0	3105.5	2605.3	2924.9	2491.8	2515.8	1112.4
82.5°	1591.9	1575.9	1812.5	1975.5	1488.0	1564.7	1050.1	1513.6	1623.9	701.6	351.6
85°	712.8	743.2	871.1	1149.2	652.1	346.9	214.2	465.1	692.1	353.2	0.0
87.5°	73.5	57.6	153.5	279.7	89.5	9.6	31.9	16.0	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°	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0
2.5°	7608.0	7515.3	7238.8	6979.9	6757.7	6486.0	6310.2	6033.6	5865.8	5814.7	5822.7
5°	7302.7	7035.8	6509.9	6089.6	5621.3	5354.4	4948.4	4558.4	4347.5	4269.2	4234.0
7.5°	6663.4	6377.3	5742.8	5082.7	4580.8	4112.5	3810.4	3466.7	3231.8	3038.4	3004.8
10°	6188.7	5813.1	5026.7	4317.1	3920.7	3569.1	3267.0	2923.3	2646.9	2426.3	2365.5
12.5°	5904.2	5483.8	4606.4	4011.8	3636.2	3275.0	2881.8	2483.8	2200.9	1962.7	1852.4
15°	5853.1	5365.6	4488.1	3792.9	3329.3	2893.0	2370.3	1940.4	1649.5	1424.1	1355.4
17.5°	6161.5	5578.2	4470.5	3564.3	2928.1	2309.6	1766.1	1409.7	1082.0	955.8	906.2
20°	6711.3	5953.8	4468.9	3298.9	2515.8	1778.9	1240.3	919.0	786.4	725.6	696.9
22.5°	7461.0	6465.2	4553.6	3070.4	2087.4	1312.2	885.5	732.0	655.3	605.7	594.6
25°	8376.8	7222.9	4761.4	2915.3	1759.8	1029.3	730.5	626.6	562.6	540.3	530.6
27.5°	9190.4	7948.5	4990.0	2755.5	1524.8	911.0	677.7	573.8	522.7	505.0	490.7
30°	9892.0	8607.0	5100.2	2544.5	1336.2	834.3	687.3	613.8	546.6	493.9	469.9
32.5°	10477.0	9112.0	5172.2	2352.8	1176.4	682.5	543.4	474.7	444.4	425.2	409.2
35°	11209.0	9658.7	5129.0	2244.1	1094.9	621.8	495.5	409.2	358.0	319.7	303.6
37.5°	11976.2	10205.3	5053.9	2154.5	1058.1	577.0	471.5	388.4	332.5	292.5	271.7
40°	12770.6	10712.0	4966.0	2071.4	1024.6	548.3	457.1	370.8	314.8	271.7	249.3
42.5°	13497.8	11205.8	4930.9	2017.1	970.2	553.0	445.9	362.8	297.3	252.5	233.3
45°	14086.0	11674.1	4978.8	1988.4	911.0	545.0	449.1	353.2	282.9	239.8	220.6
47.5°	14714.1	12335.9	5133.8	1959.5	853.5	506.7	473.1	351.6	276.5	231.8	210.9
50°	15444.6	13183.0	5488.7	1889.2	783.2	465.1	503.5	350.0	268.5	222.1	201.4
52.5°	16417.9	14145.1	5854.6	1766.1	680.9	425.2	481.1	345.2	252.5	210.9	190.2
55°	17292.2	15158.5	6164.7	1620.7	551.4	367.6	433.2	324.5	225.3	191.8	172.7
57.5°	17653.5	15730.7	6155.2	1419.3	441.1	322.8	356.4	297.3	196.6	169.4	153.5
59°	17520.8	15658.7	5949.0	1270.7	402.8	298.9	295.7	294.1	183.8	153.5	140.6
60°	17333.8	15396.7	5726.8	1197.1	378.8	282.9	271.7	290.9	172.7	143.8	131.1
62.5°	16617.8	14309.8	4990.0	1072.5	346.9	239.8	217.4	246.2	153.5	124.7	113.5
65°	15580.4	12639.6	4224.4	1037.3	337.2	198.2	180.6	175.8	131.1	105.5	95.9
67.5°	13557.0	10696.0	3422.0	1013.4	340.4	166.2	158.2	132.6	108.7	87.9	81.5
70°	10854.2	8340.0	2801.9	986.2	343.7	135.9	132.6	105.5	87.9	73.5	67.1
72.5°	6594.7	4943.6	2205.7	856.7	334.0	108.7	118.3	79.9	64.0	52.8	49.6
75°	4077.3	3383.7	1368.1	666.5	220.6	79.9	83.1	49.6	43.1	33.6	33.6
77.5°	2362.3	2137.0	489.1	239.8	97.5	47.9	36.7	25.6	24.0	14.4	14.4
80°	979.8	784.8	169.4	81.5	52.8	22.4	8.0	1.6	0.0	0.0	0.0
82.5°	286.1	254.2	46.4	36.7	16.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0
2.5°	5686.9	5634.1	5610.1	5691.6	5616.5	5712.4	5638.9	5670.9	5765.2	5806.7	5913.8
5°	4256.3	4202.0	4176.4	4299.5	4293.1	4353.9	4347.5	4403.4	4451.4	4344.2	4454.6
7.5°	2964.9	2928.1	2988.9	3084.8	3187.0	3153.5	3153.5	3078.4	3104.0	3088.0	3083.1
10°	2255.2	2129.0	2097.0	2093.8	2132.2	2140.2	2097.0	1993.1	2031.5	2042.7	2109.8
12.5°	1774.1	1676.6	1528.0	1460.8	1443.3	1457.6	1315.4	1224.3	1267.4	1241.9	1307.5
15°	1272.3	1192.4	1104.4	1029.3	1008.5	979.8	824.7	716.1	703.3	708.1	719.3
17.5°	907.8	853.5	853.5	773.6	730.5	644.1	565.8	517.9	513.1	517.9	525.9
20°	669.7	641.0	637.8	616.9	569.0	511.5	457.1	447.6	444.4	452.3	455.5
22.5°	577.0	546.6	521.1	519.4	474.7	426.7	401.2	388.4	390.0	393.2	401.2
25°	516.2	484.3	457.1	441.1	409.2	375.6	351.6	345.2	345.2	350.0	351.6
27.5°	473.1	433.2	409.2	386.8	358.0	329.3	308.5	303.6	300.5	303.6	311.6
30°	442.7	402.8	372.4	338.9	316.5	289.3	271.7	265.4	263.7	265.4	271.7
32.5°	378.8	354.9	330.8	300.5	273.3	255.7	236.5	225.3	225.3	228.6	235.0
35°	286.1	273.3	271.7	263.7	241.3	222.1	199.8	188.6	188.6	195.0	198.2
37.5°	252.5	228.6	225.3	222.1	212.6	187.0	166.2	156.6	155.0	159.8	166.2
40°	230.1	203.0	188.6	185.4	187.0	158.2	135.9	126.3	126.3	127.9	134.3
42.5°	212.6	180.6	155.0	151.8	158.2	132.6	110.2	100.7	100.7	100.7	108.7
45°	198.2	161.5	131.1	115.1	124.7	108.7	89.5	79.9	76.7	79.9	83.1
47.5°	188.6	147.0	115.1	92.7	92.7	86.3	72.0	60.8	57.6	59.1	64.0
50°	180.6	134.3	97.5	75.1	67.1	68.7	54.3	46.4	43.1	43.1	47.9
52.5°	167.8	121.4	84.7	64.0	51.1	46.4	39.9	33.6	31.9	33.6	36.7
55°	151.8	110.2	73.5	52.8	39.9	31.9	28.7	24.0	22.4	24.0	28.7
57.5°	134.3	92.7	59.1	41.6	27.2	20.7	19.2	16.0	12.8	14.4	17.6
59°	123.1	83.1	51.1	33.6	20.7	14.4	14.4	11.2	8.0	9.6	14.4
60°	118.3	76.7	43.1	28.7	17.6	11.2	11.2	8.0	4.8	6.4	11.2
62.5°	100.7	64.0	33.6	17.6	8.0	1.6	4.8	1.6	0.0	1.6	4.8
65°	84.7	51.1	22.4	8.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	70.3	38.4	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	55.9	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	38.4	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P648106

CATALOG NUMBER: GALN-SA8A-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0	7031.0
2.5°	5920.2	6148.7	6289.4	6554.7	6826.4	7035.8	7298.0	7532.9	7630.4	7681.5
5°	4566.4	4884.5	5154.6	5559.0	5934.6	6391.7	6855.2	7401.9	7611.2	7665.6
7.5°	3204.7	3529.1	3812.0	4280.3	4815.8	5427.9	6121.6	6815.2	7120.5	7206.8
10°	2314.4	2661.2	3006.5	3474.7	3975.1	4638.3	5360.8	6219.1	6570.7	6637.8
12.5°	1460.8	1833.3	2394.3	2972.9	3501.9	4035.7	4791.8	5725.2	6113.6	6236.7
15°	847.1	1125.2	1548.8	2303.2	2976.1	3682.5	4507.3	5539.8	5974.5	6100.8
17.5°	567.4	663.3	954.2	1531.2	2419.9	3356.5	4435.4	5691.6	6172.7	6334.2
20°	477.9	521.1	623.3	933.4	1863.6	3065.6	4454.6	6104.0	6735.4	6936.8
22.5°	420.4	460.3	525.9	671.3	1301.0	2704.3	4545.6	6693.8	7508.9	7766.3
25°	370.8	410.8	468.3	556.2	874.3	2287.2	4745.4	7556.9	8533.4	8816.3
27.5°	329.3	366.1	415.5	490.7	672.9	1822.1	4922.8	8397.6	9468.5	9698.6
30°	290.9	321.3	369.2	426.7	559.4	1404.9	5012.4	9132.8	10149.3	10405.1
32.5°	252.5	281.3	327.7	374.0	460.3	1070.9	4950.0	9673.0	10811.0	10974.1
35°	215.8	246.2	284.5	327.7	398.0	864.7	4638.3	10280.4	11496.7	11624.6
37.5°	185.4	210.9	251.0	284.5	359.6	692.1	4261.2	10827.0	12265.5	12449.3
40°	156.6	182.2	222.1	252.5	330.8	545.0	3920.7	11434.4	13075.9	13302.9
42.5°	127.9	158.2	193.4	243.0	284.5	415.5	3508.3	11926.7	13684.9	13969.3
45°	102.3	135.9	174.2	241.3	247.7	316.5	3110.3	12310.3	14223.5	14479.2
47.5°	81.5	115.1	167.8	225.3	203.0	251.0	2883.4	12711.5	14671.0	14875.6
50°	65.5	95.9	175.8	198.2	169.4	212.6	2877.0	13159.0	14902.8	15038.6
52.5°	52.8	78.3	148.6	151.8	143.8	187.0	3049.6	13662.5	15139.3	15251.2
55°	44.8	65.5	97.5	111.9	129.4	169.4	3179.1	14437.7	15703.5	15809.0
57.5°	35.2	55.9	75.1	89.5	115.1	155.0	3196.7	15035.4	16417.9	16486.7
59°	30.4	47.9	67.1	79.9	105.5	145.5	3124.7	15072.2	16464.3	16574.6
60°	25.6	43.1	59.1	75.1	97.5	137.5	3046.4	14805.3	16291.7	16414.8
62.5°	19.2	33.6	43.1	60.8	79.9	118.3	2675.6	13873.4	15631.6	15717.9
65°	12.8	24.0	31.9	44.8	62.3	102.3	2180.1	12665.1	14611.9	14805.3
67.5°	8.0	17.6	25.6	33.6	51.1	86.3	1553.6	10860.6	13184.5	13309.3
70°	4.8	11.2	19.2	27.2	39.9	68.7	922.2	8584.6	10969.3	10994.9
72.5°	3.2	8.0	12.8	19.2	31.9	62.3	447.6	5595.7	8009.2	8314.4
75°	1.6	4.8	8.0	14.4	25.6	51.1	214.2	3738.5	5827.5	5915.4
77.5°	0.0	1.6	4.8	9.6	19.2	39.9	124.7	2455.0	3973.4	4064.6
80°	0.0	0.0	3.2	8.0	14.4	25.6	75.1	1448.1	2407.1	2451.8
82.5°	0.0	0.0	1.6	6.4	9.6	19.2	38.4	636.1	1575.9	1591.9
85°	0.0	0.0	1.6	6.4	8.0	12.8	14.4	86.3	700.1	712.8
87.5°	0.0	0.0	1.6	8.0	8.0	8.0	8.0	4.8	59.1	73.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)