

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: P648660

Luminaire Tested: **GALN-SA9B-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29007 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

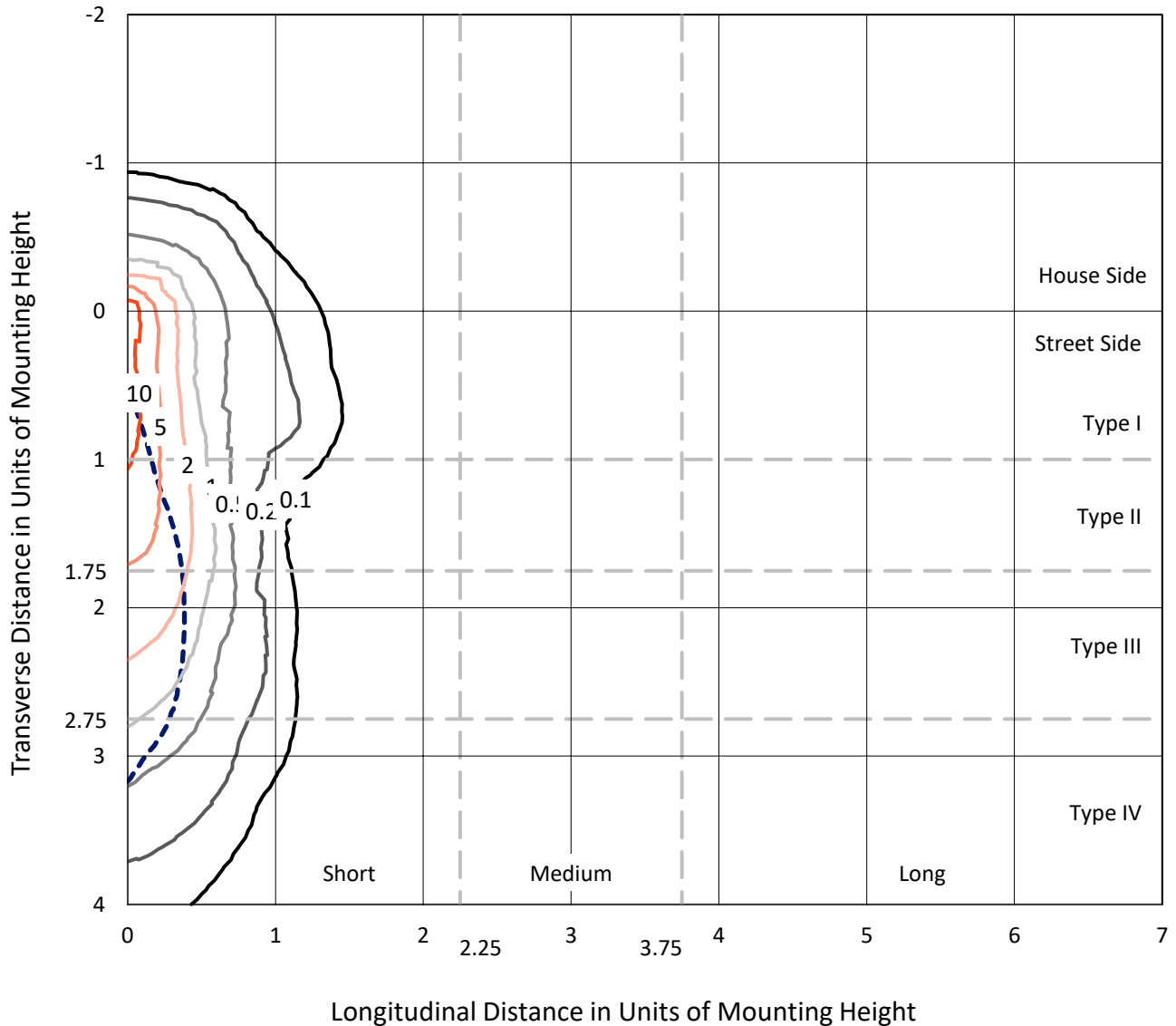
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

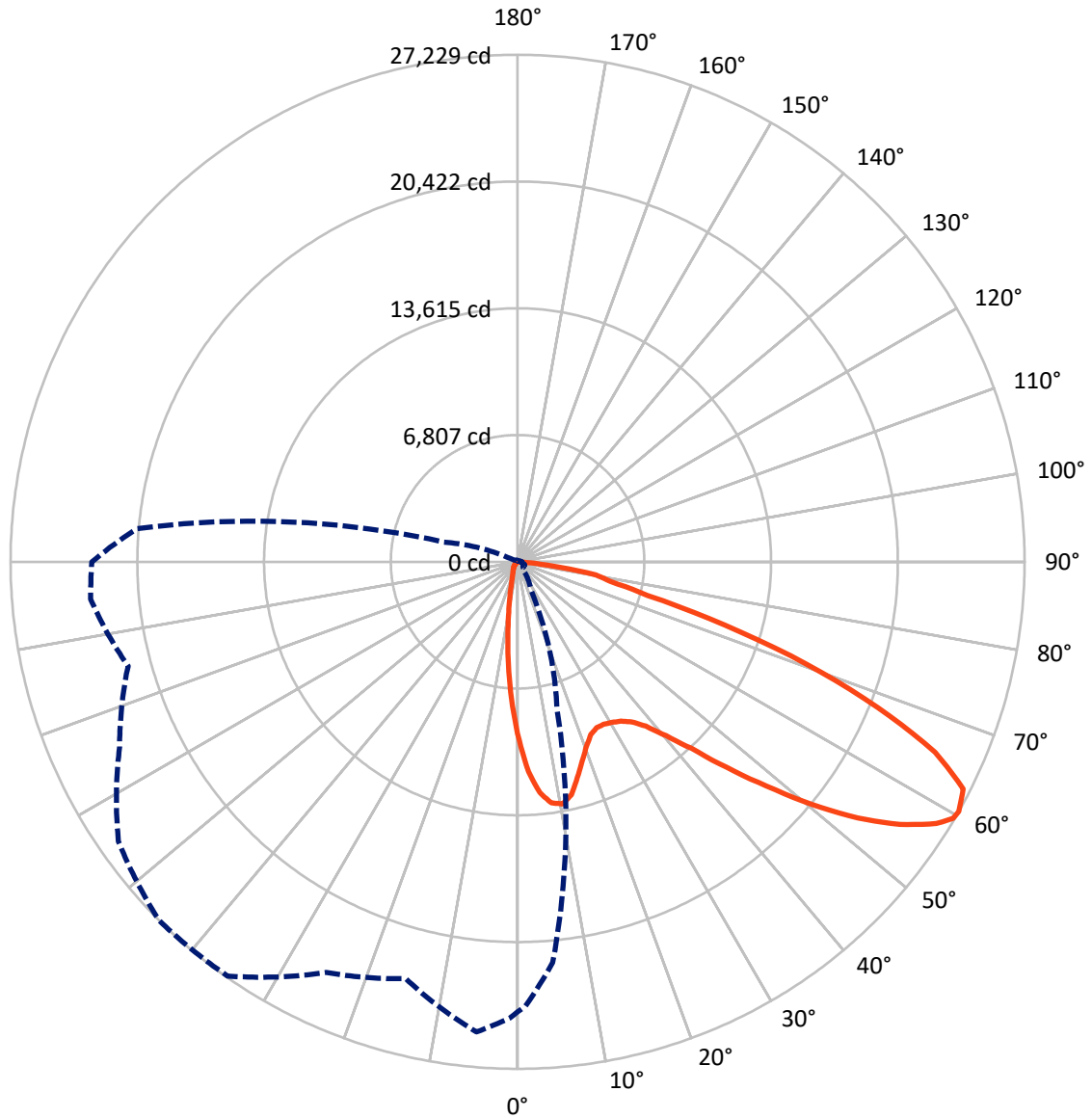
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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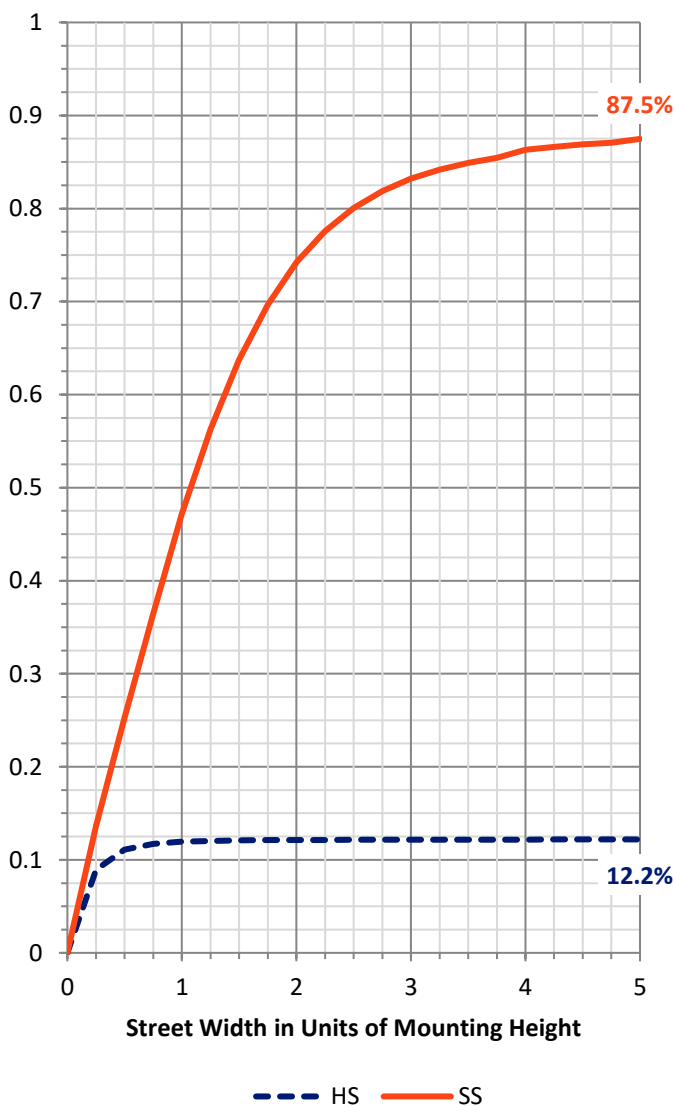
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3577.7	0.0	3577.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	25429.3	0.0	25429.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	29007.0	0.0	29007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.1	2.5
10°-20°	1416.2	4.9
20°-30°	2076.5	7.2
30°-40°	3088.1	10.6
40°-50°	4494.1	15.5
50°-60°	6480.8	22.3
60°-70°	7128.2	24.6
70°-80°	3192.9	11.0
80°-90°	417.2	1.4
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°	29007.0	100.0
0°-180°	29007.0	100.0

Coefficient of Utilization



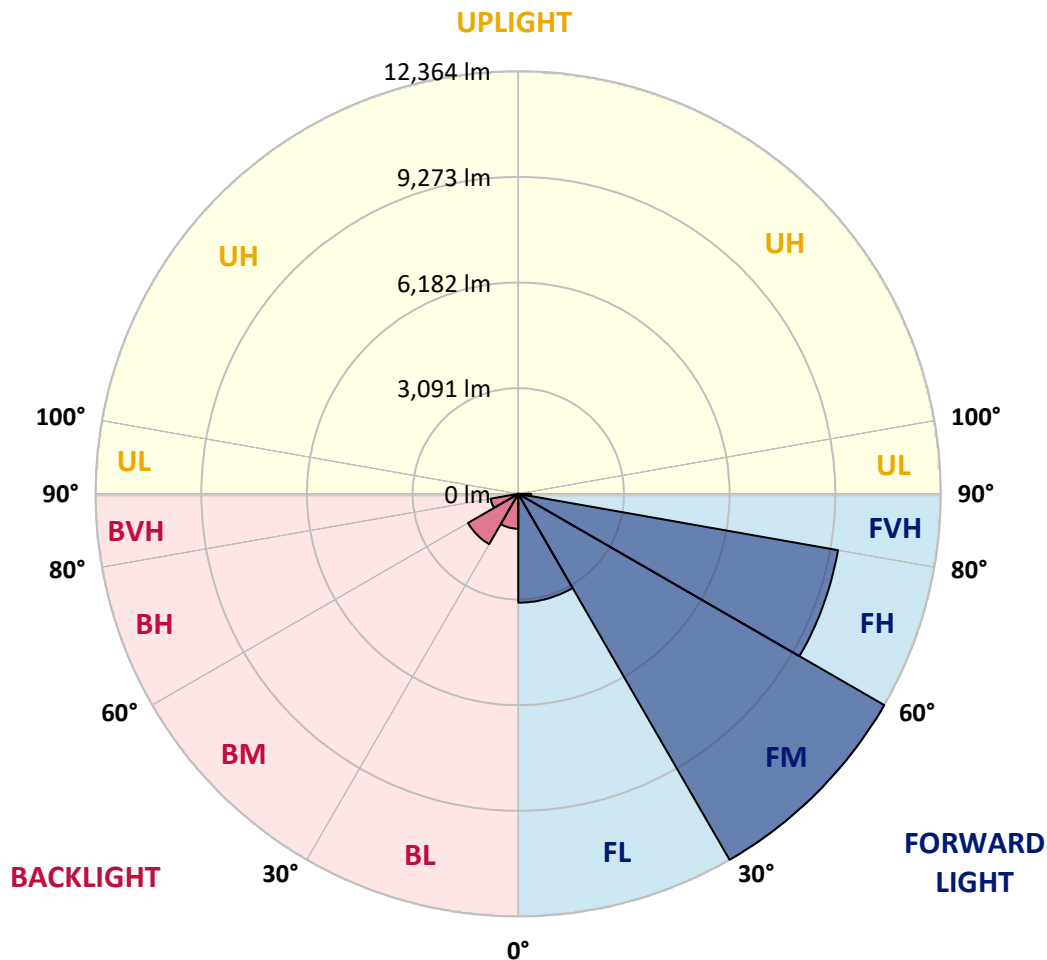
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3183.4	11.0			
FM (30°-60°)	12363.7	42.6			
FH (60°-80°)	9500.7	32.8			G4/12000
FVH (80°-90°)	381.5	1.3			G3/500
BL (0°-30°)	1022.3	3.5	B3/2500		
BM (30°-60°)	1699.3	5.9	B2/2500		
BH (60°-80°)	820.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	35.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2
2.5°	10539.8	10493.5	10387.7	10065.7	9785.7	9419.6	9049.2	8758.2	8579.6	8251.0	8101.1
5°	10211.3	10233.3	9926.8	9265.3	8528.8	8026.1	7477.1	7040.5	6559.8	6255.5	5935.8
7.5°	9353.5	9309.4	8976.5	8054.8	7159.5	6431.9	5737.4	5172.9	4817.9	4533.4	4295.3
10°	8619.3	8586.1	8160.6	6974.3	6013.0	5468.3	4998.7	4504.8	4123.3	3706.6	3373.6
12.5°	8158.4	8083.5	7593.9	6354.7	5572.0	5064.8	4553.3	4039.5	3512.5	3091.4	2687.9
15°	8004.1	7896.0	7351.4	6140.8	5289.7	4645.9	4004.3	3413.3	2806.9	2341.7	2037.4
17.5°	8284.1	8105.5	7525.6	6103.4	4952.4	4099.1	3309.7	2540.1	1909.5	1554.5	1367.1
20°	8925.7	8720.7	7966.6	6065.9	4577.5	3486.1	2515.9	1794.9	1320.8	1126.7	1023.1
22.5°	9878.3	9596.1	8619.3	6125.4	4231.3	2888.5	1816.9	1267.8	1049.5	928.3	855.5
25°	11022.7	10786.8	9446.1	6337.1	3957.9	2418.8	1404.5	1036.3	884.2	809.2	754.1
27.5°	12277.3	11900.3	10515.5	6590.7	3708.8	2055.1	1232.6	926.1	787.1	718.8	690.1
30°	13170.3	12877.1	11410.7	6767.1	3397.8	1781.6	1126.7	912.8	789.3	707.8	654.9
32.5°	14052.3	13677.4	12160.5	6848.7	3170.8	1592.0	974.6	796.0	692.3	650.4	597.6
35°	14996.0	14603.6	12907.9	6804.6	3001.0	1466.3	884.2	710.0	593.1	522.6	469.6
37.5°	15950.8	15536.3	13651.0	6645.8	2895.1	1415.6	813.6	674.7	560.1	487.3	429.9
40°	17084.1	16530.7	14347.8	6515.7	2784.9	1389.1	767.3	652.7	535.8	458.6	401.3
42.5°	18010.3	17483.2	15007.1	6447.4	2709.9	1327.4	767.3	635.0	520.4	434.4	374.8
45°	18887.8	18341.0	15719.3	6502.5	2679.0	1250.2	776.2	632.8	509.3	416.7	357.2
47.5°	19622.1	19148.0	16451.3	6709.8	2639.3	1166.4	729.8	663.7	502.8	401.3	339.6
50°	20488.6	20030.0	17419.3	7128.7	2568.8	1082.7	672.5	714.4	500.5	388.1	324.2
52.5°	21710.2	21214.1	18755.5	7605.0	2456.3	954.8	619.6	707.8	491.7	366.1	308.7
55°	23203.0	22801.7	20303.4	8176.1	2302.0	811.4	535.8	628.4	465.3	328.5	282.3
57.5°	24159.9	23818.2	21463.2	8423.0	2066.0	663.7	471.8	527.0	425.6	293.2	251.3
59°	24272.4	23963.6	21705.8	8341.5	1911.7	606.4	441.0	452.0	414.5	273.4	233.7
60°	24177.6	23857.9	21608.8	8182.7	1768.4	566.7	414.5	401.3	416.7	262.4	220.5
62.5°	23569.0	23022.2	20667.2	7377.8	1545.7	520.4	368.2	328.5	368.2	235.9	196.2
65°	22393.7	21573.5	18804.1	6244.5	1457.5	493.9	313.1	275.6	280.0	207.3	169.8
67.5°	20340.9	19306.7	16323.4	5073.7	1420.0	496.1	264.6	247.0	216.1	176.4	149.9
70°	17095.2	16063.2	13097.6	4174.0	1402.4	496.1	224.9	211.6	180.8	147.8	130.1
72.5°	12114.1	11002.8	8835.4	3278.8	1263.4	493.9	191.8	191.8	147.8	123.5	105.9
75°	6844.3	6853.1	5554.4	2319.6	1049.5	407.9	154.3	152.1	108.1	94.8	79.4
77.5°	3988.8	3918.2	3744.1	996.7	487.3	185.2	108.1	92.6	74.9	68.4	57.3
80°	2050.6	1686.8	1642.7	361.6	174.2	116.9	74.9	52.9	48.5	44.1	39.7
82.5°	606.4	608.5	542.5	145.6	97.0	77.2	37.5	28.7	26.5	24.3	24.3
85°	41.9	26.5	30.9	44.1	59.5	30.9	2.2	6.6	6.6	8.8	11.0
87.5°	4.4	2.2	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°	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2
2.5°	7935.7	8032.7	7851.9	7856.3	7706.4	7754.9	7578.5	7635.8	7532.2	7611.5	7845.3
5°	5971.1	5993.2	5847.6	5801.3	5823.3	5913.8	5949.0	5788.1	5856.4	5721.9	5713.1
7.5°	4207.1	4233.5	4149.7	4138.7	4297.5	4260.0	4328.3	4163.0	4006.5	4074.8	3949.1
10°	3267.8	3157.5	2985.5	2937.0	2906.2	2926.0	2926.0	2776.0	2754.0	2694.5	2784.9
12.5°	2579.8	2445.3	2282.1	2061.6	2006.5	2002.1	1920.5	1788.2	1746.3	1695.7	1770.6
15°	1874.3	1819.1	1682.4	1559.0	1433.2	1409.0	1276.7	1168.6	1025.3	1005.5	998.9
17.5°	1318.6	1237.0	1234.8	1164.2	1091.5	1043.0	919.5	796.0	740.9	734.2	734.2
20°	987.8	959.2	912.8	904.1	882.0	826.8	716.6	650.4	624.0	626.2	635.0
22.5°	831.3	811.4	769.5	749.7	740.9	692.3	610.7	566.7	553.4	553.4	555.6
25°	743.1	725.4	679.1	648.2	637.2	602.0	538.0	505.0	493.9	493.9	493.9
27.5°	676.9	654.9	606.4	579.9	560.1	520.4	480.7	447.6	436.6	436.6	438.8
30°	630.6	606.4	562.3	527.0	496.1	460.9	427.8	399.1	385.9	383.7	385.9
32.5°	568.8	546.8	502.8	480.7	445.4	403.5	377.0	350.6	337.4	339.6	337.4
35°	443.2	436.6	405.8	412.3	392.5	357.2	332.9	304.3	288.8	286.7	291.0
37.5°	403.5	377.0	341.8	344.0	337.4	324.2	284.5	253.5	242.6	242.6	244.8
40°	372.6	346.2	306.5	286.7	288.8	288.8	247.0	213.9	202.9	200.7	205.1
42.5°	346.2	319.7	275.6	242.6	233.7	244.8	209.5	176.4	165.4	161.0	165.4
45°	328.5	299.9	249.2	211.6	185.2	198.4	172.0	145.6	132.3	132.3	130.1
47.5°	310.9	284.5	229.3	183.0	154.3	147.8	141.1	116.9	103.7	101.4	103.7
50°	295.5	269.0	207.3	158.8	130.1	114.6	114.6	92.6	83.8	79.4	81.6
52.5°	280.0	251.3	187.5	141.1	112.4	92.6	81.6	74.9	68.4	66.2	68.4
55°	258.0	229.3	167.6	121.3	97.0	77.2	64.0	61.7	57.3	52.9	57.3
57.5°	231.5	205.1	147.8	103.7	77.2	59.5	52.9	50.7	46.3	44.1	44.1
59°	216.1	191.8	136.7	90.4	68.4	52.9	48.5	46.3	41.9	37.5	39.7
60°	207.3	187.5	130.1	83.8	61.7	48.5	44.1	41.9	37.5	35.3	37.5
62.5°	183.0	167.6	114.6	68.4	48.5	35.3	30.9	33.0	30.9	28.7	30.9
65°	161.0	147.8	97.0	52.9	37.5	24.3	22.1	28.7	26.5	24.3	26.5
67.5°	143.3	127.9	81.6	39.7	26.5	13.2	15.4	24.3	24.3	22.1	24.3
70°	123.5	110.2	66.2	28.7	13.2	6.6	11.0	17.6	22.1	19.8	22.1
72.5°	101.4	86.0	50.7	19.8	6.6	0.0	6.6	15.4	22.1	19.8	22.1
75°	79.4	64.0	37.5	11.0	0.0	0.0	2.2	13.2	22.1	19.8	22.1
77.5°	57.3	46.3	22.1	2.2	0.0	0.0	2.2	13.2	22.1	19.8	22.1
80°	37.5	33.0	8.8	0.0	0.0	0.0	2.2	13.2	22.1	22.1	24.3
82.5°	24.3	17.6	0.0	0.0	0.0	0.0	4.4	17.6	24.3	26.5	26.5
85°	11.0	0.0	0.0	0.0	0.0	0.0	8.8	22.1	28.7	28.7	28.7
87.5°	0.0	0.0	0.0	0.0	0.0	4.4	15.4	26.5	33.0	33.0	33.0
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°	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2
2.5°	7885.0	8023.9	8220.2	8522.3	8767.0	9152.9	9448.3	9851.9	10259.7	10383.2	10575.0
5°	5803.5	5982.1	6427.5	6833.2	7089.0	7904.9	8420.8	9234.5	9964.3	10314.9	10696.3
7.5°	4030.7	4242.4	4582.0	5148.6	5686.6	6350.4	7183.8	8114.3	9183.7	9684.2	10222.3
10°	2829.0	3093.6	3572.0	4037.3	4714.2	5344.8	6167.3	7194.8	8374.5	8965.4	9640.1
12.5°	1786.0	2021.9	2654.8	3177.3	4021.9	4753.9	5512.5	6442.9	7810.0	8416.4	9124.2
15°	1020.9	1219.4	1514.8	2185.1	3122.2	4090.2	5036.2	6116.6	7521.2	8268.6	9033.8
17.5°	760.7	813.6	945.9	1325.2	2178.5	3309.7	4597.4	6017.4	7717.4	8595.0	9468.2
20°	639.5	674.7	736.5	886.4	1389.1	2549.0	4169.6	6035.1	8352.4	9455.0	10284.0
22.5°	573.3	595.3	646.1	743.1	948.1	1856.6	3669.1	6138.6	9122.0	10511.1	11468.1
25°	502.8	531.4	575.5	659.3	789.3	1287.7	3175.1	6370.2	10200.2	11851.7	12751.4
27.5°	447.6	474.1	518.2	595.3	692.3	983.4	2599.6	6568.6	11338.0	13201.2	13937.6
30°	392.5	419.0	463.1	524.8	613.0	796.0	1980.1	6685.5	12442.7	14213.3	14780.0
32.5°	346.2	368.2	410.1	465.3	538.0	674.7	1561.1	6564.2	13287.2	15132.7	15512.0
35°	299.9	326.4	361.6	412.3	476.3	575.5	1298.8	6145.3	14012.6	16078.7	16215.4
37.5°	251.3	282.3	319.7	366.1	416.7	529.2	1043.0	5682.2	14788.8	17258.3	17033.5
40°	211.6	240.4	275.6	326.4	372.6	485.1	802.6	5188.3	15626.6	18365.3	17926.5
42.5°	172.0	202.9	244.8	291.0	368.2	423.4	621.8	4676.8	16378.6	19328.8	18733.5
45°	136.7	163.2	207.3	266.8	366.1	363.9	480.7	4171.8	16945.2	20016.8	19335.4
47.5°	108.1	130.1	174.2	260.2	337.4	308.7	385.9	3858.7	17540.6	20636.4	19796.3
50°	86.0	108.1	149.9	271.2	295.5	264.6	324.2	3909.4	18116.1	20951.7	19985.9
52.5°	72.7	94.8	130.1	213.9	227.1	231.5	284.5	4143.2	18859.2	21289.1	20362.9
55°	64.0	83.8	110.2	149.9	176.4	207.3	260.2	4312.9	19853.6	22012.2	21194.2
57.5°	50.7	72.7	99.2	127.9	145.6	180.8	240.4	4326.2	20753.3	22940.6	22298.9
59°	46.3	66.2	92.6	121.3	130.1	163.2	227.1	4213.7	20786.3	23079.5	22806.0
60°	41.9	64.0	88.2	112.4	123.5	154.3	216.1	4083.6	20486.4	22859.0	23015.5
62.5°	35.3	55.1	77.2	90.4	105.9	127.9	187.5	3611.7	19033.3	21860.1	22627.4
65°	30.9	48.5	66.2	74.9	88.2	110.2	165.4	2890.8	17428.1	20506.3	21516.1
67.5°	28.7	44.1	57.3	64.0	77.2	101.4	147.8	2041.8	15348.8	18788.6	19847.0
70°	26.5	41.9	50.7	59.5	68.4	86.0	125.7	1190.7	11823.1	15776.6	16894.6
72.5°	26.5	39.7	44.1	50.7	59.5	77.2	116.9	643.9	8083.5	12034.8	13479.0
75°	26.5	37.5	39.7	44.1	52.9	70.5	103.7	337.4	5225.8	8361.3	10319.3
77.5°	26.5	35.3	39.7	41.9	50.7	61.7	90.4	211.6	3481.7	5856.4	6974.3
80°	28.7	35.3	37.5	41.9	48.5	57.3	74.9	141.1	2046.2	3523.6	4244.6
82.5°	30.9	35.3	39.7	44.1	50.7	55.1	66.2	88.2	943.7	2330.7	2637.1
85°	33.0	37.5	41.9	46.3	52.9	55.1	61.7	64.0	154.3	1051.8	1422.2
87.5°	35.3	39.7	44.1	48.5	57.3	57.3	57.3	57.3	52.9	112.4	286.7
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: P648660

CATALOG NUMBER: GALN-SA9B-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2	9587.2
2.5°	10817.6	11066.8	11241.0	11285.1	11159.4	11102.1	10943.3	10696.3	10546.4	10539.8
5°	11399.7	11984.0	12389.7	12458.1	12215.6	11805.4	11318.1	10689.8	10321.5	10211.3
7.5°	11300.5	12323.6	12976.3	13071.1	12663.1	11880.4	10936.7	9924.6	9523.3	9353.5
10°	10892.5	12140.6	13073.3	13223.2	12678.6	11576.1	10376.6	9247.7	8749.3	8619.3
12.5°	10544.2	11805.4	12634.5	12841.7	12429.4	11329.1	10041.4	8813.3	8279.7	8158.4
15°	10392.1	11408.5	11915.7	12021.6	11953.2	11174.8	10006.2	8747.1	8136.4	8004.1
17.5°	10544.2	11071.2	11135.1	11243.2	11395.3	11159.4	10345.8	9106.5	8447.2	8284.1
20°	10943.3	10777.9	10513.3	10559.6	10908.1	11223.3	10949.9	9902.5	9099.9	8925.7
22.5°	11622.5	10705.2	10105.4	10065.7	10506.7	11437.2	11836.3	10980.8	10050.3	9878.3
25°	12455.9	10888.2	9955.5	9869.5	10350.2	11750.3	12799.9	12301.6	11285.1	11022.7
27.5°	13364.3	11267.4	9955.5	9871.7	10336.9	12028.1	13624.5	13470.2	12563.9	12277.3
30°	13862.7	11580.6	10098.8	10004.0	10500.1	12189.1	14065.6	14508.8	13525.3	13170.3
32.5°	14308.1	12014.9	10378.8	10200.2	10841.9	12427.2	14460.2	15390.7	14290.5	14052.3
35°	14718.2	12480.2	10764.7	10557.4	11291.6	12753.6	14896.8	16316.9	15355.4	14996.0
37.5°	15170.2	13020.4	11366.7	11190.2	12043.6	13388.6	15415.0	17534.0	16402.8	15950.8
40°	15662.0	13646.6	12356.7	12281.7	13238.7	14107.5	16069.9	18832.7	17597.9	17084.1
42.5°	16162.5	14367.7	13569.4	13692.9	14592.5	15115.1	16742.3	19831.6	18576.9	18010.3
45°	16616.7	15289.3	15146.0	15756.8	16171.3	16098.6	17240.7	20535.0	19430.2	18887.8
47.5°	17190.0	16632.1	17053.3	17994.8	18005.9	17167.9	17617.7	21110.5	20164.5	19622.1
50°	17831.7	18217.5	19516.3	20475.4	20217.5	18219.7	18058.7	21791.8	20923.0	20488.6
52.5°	18574.7	19992.5	21791.8	22856.8	22254.8	19366.3	18793.0	22528.2	22127.0	21710.2
55°	19439.1	21203.0	24060.7	24909.6	24303.2	20790.7	19908.7	23527.1	23487.4	23203.0
57.5°	20415.9	22482.0	25374.8	26523.7	25983.5	22462.1	21467.7	24468.6	24318.6	24159.9
59°	21187.6	23139.0	25954.8	27145.4	26819.1	23632.9	22515.0	25055.1	24510.5	24272.4
60°	21655.0	23584.4	26168.6	27229.2	27154.3	24329.7	23178.7	25341.8	24508.3	24177.6
62.5°	23042.0	24362.8	26087.1	26856.6	27149.9	25665.9	25125.7	25657.1	24054.1	23569.0
65°	23535.9	24104.8	24735.4	24640.6	24892.0	25597.6	26369.3	25310.9	23083.9	22393.7
67.5°	22574.5	21275.8	21498.5	20865.7	20742.2	22757.6	25864.4	23617.5	21185.4	20340.9
70°	19028.9	16299.2	16186.7	16477.8	15679.6	18424.8	23225.0	20356.4	18052.1	17095.2
72.5°	14978.4	11518.8	10570.7	11642.3	11618.0	14056.7	19293.5	14444.8	12195.7	12114.1
75°	11779.0	8019.5	7038.3	7212.4	7547.7	10175.9	15366.5	9172.7	7510.1	6844.3
77.5°	7907.0	5682.2	5300.8	5086.9	5448.5	6533.4	9721.7	4974.4	4211.5	3988.8
80°	4557.7	4127.7	4687.7	4255.6	4449.6	4116.7	4835.5	2282.1	1894.1	2050.6
82.5°	2965.7	2350.5	2504.8	1861.0	2544.5	2566.6	1552.3	674.7	571.1	606.4
85°	1854.4	1102.5	619.6	441.0	877.6	1614.1	485.1	41.9	48.5	41.9
87.5°	480.7	183.0	77.2	114.6	141.1	125.7	112.4	6.6	2.2	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)