

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: P647670

Luminaire Tested: **GALN-SA9D-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647670
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-SA9D-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 39435 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

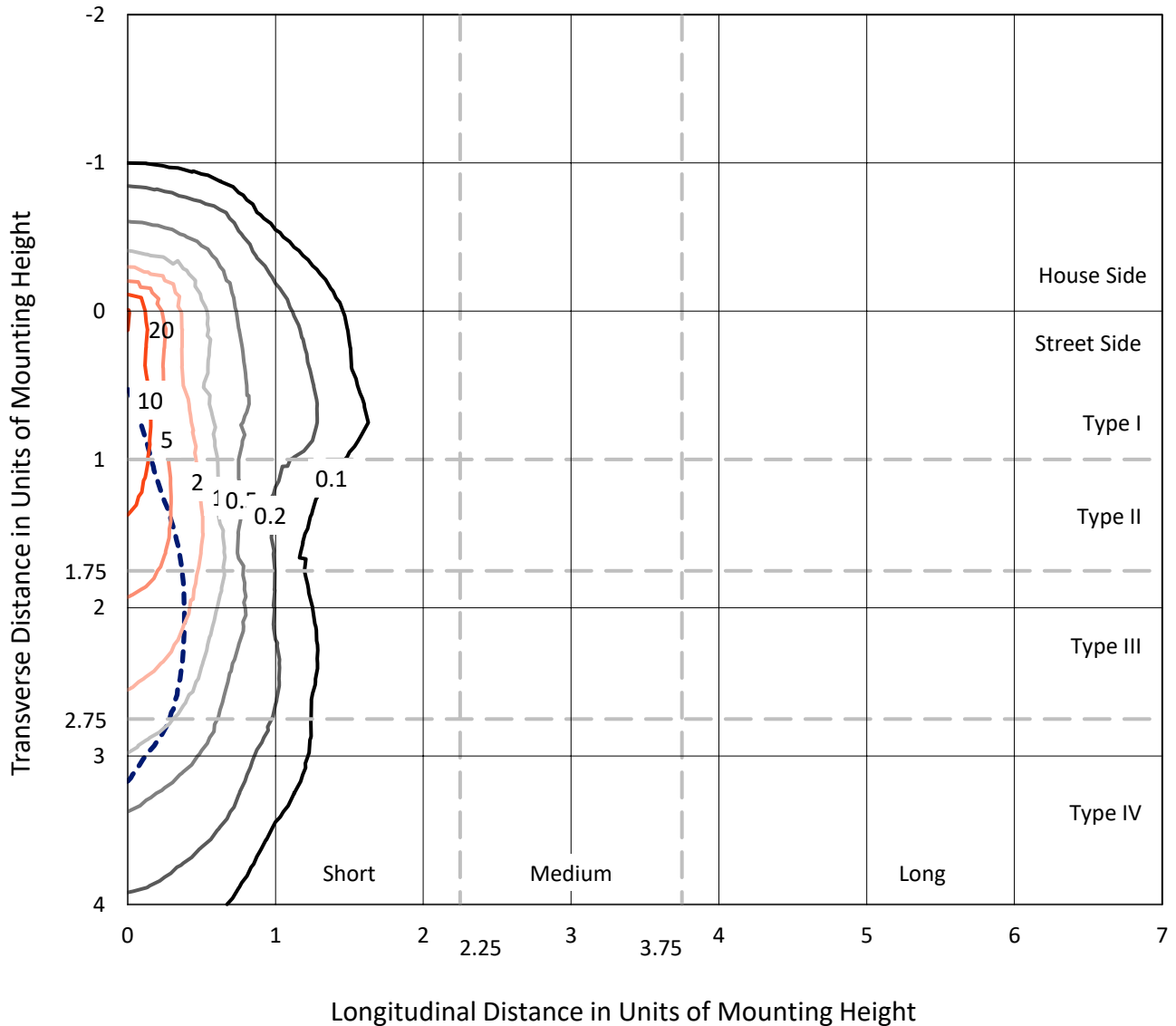
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

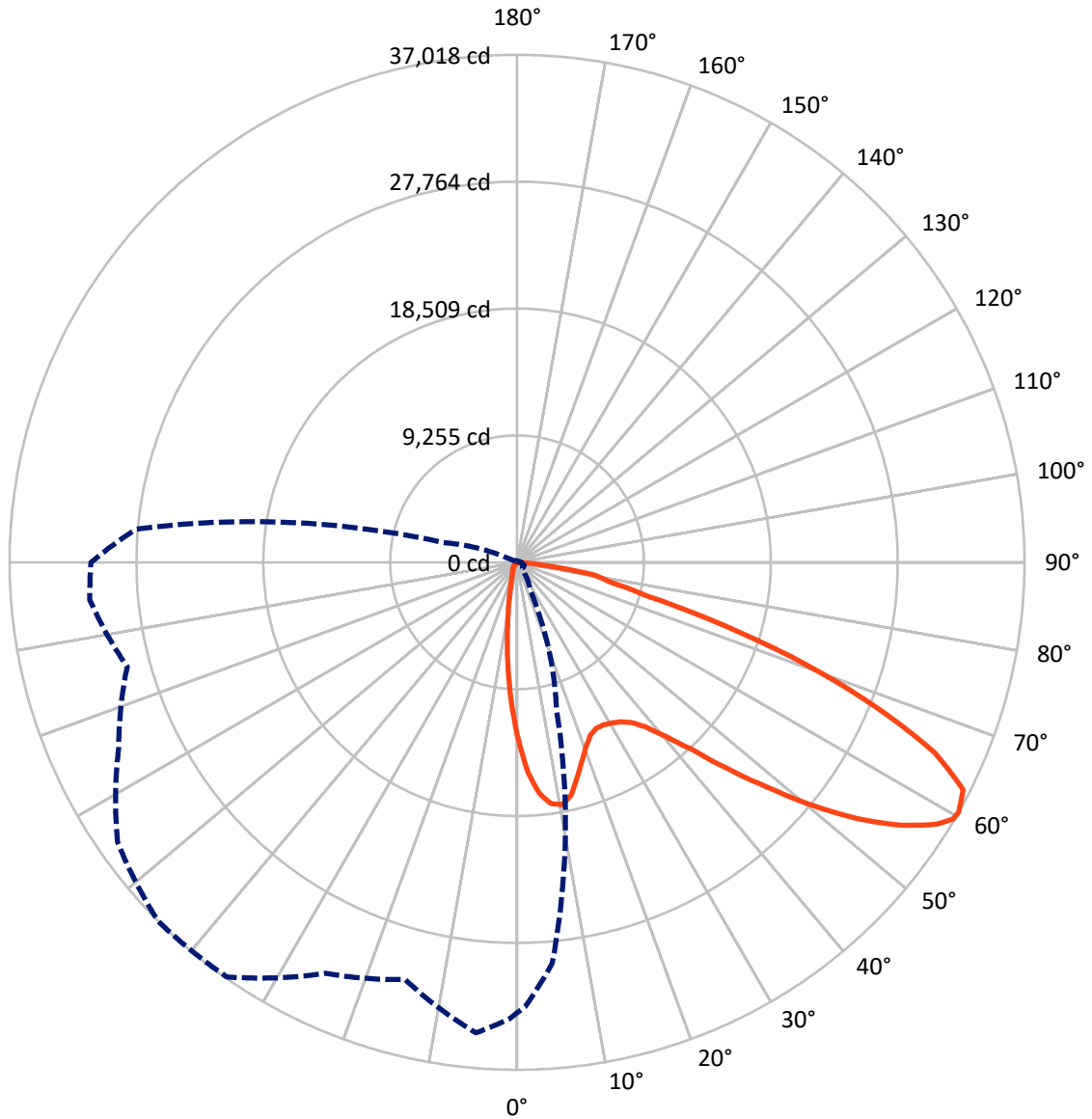
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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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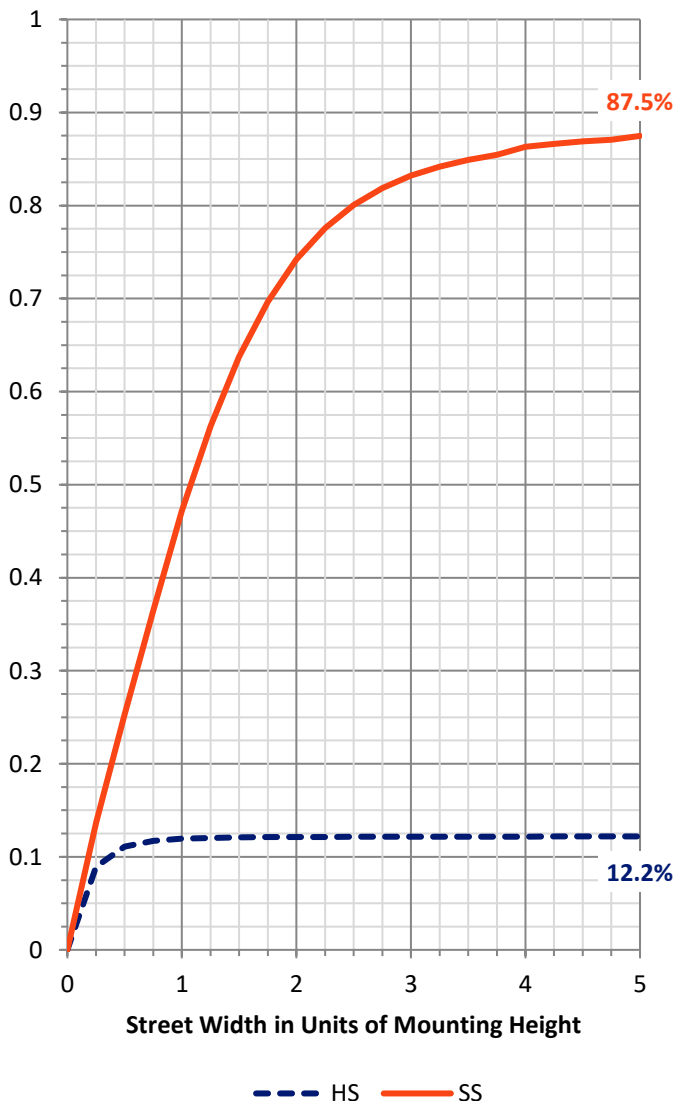
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4863.9	0.0	4863.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	34571.1	0.0	34571.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	39435.0	0.0	39435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.4	2.5
10°-20°	1925.3	4.9
20°-30°	2823.0	7.2
30°-40°	4198.2	10.6
40°-50°	6109.7	15.5
50°-60°	8810.7	22.3
60°-70°	9690.8	24.6
70°-80°	4340.7	11.0
80°-90°	567.2	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°	39435.0	100.0
0°-180°	39435.0	100.0

Coefficient of Utilization

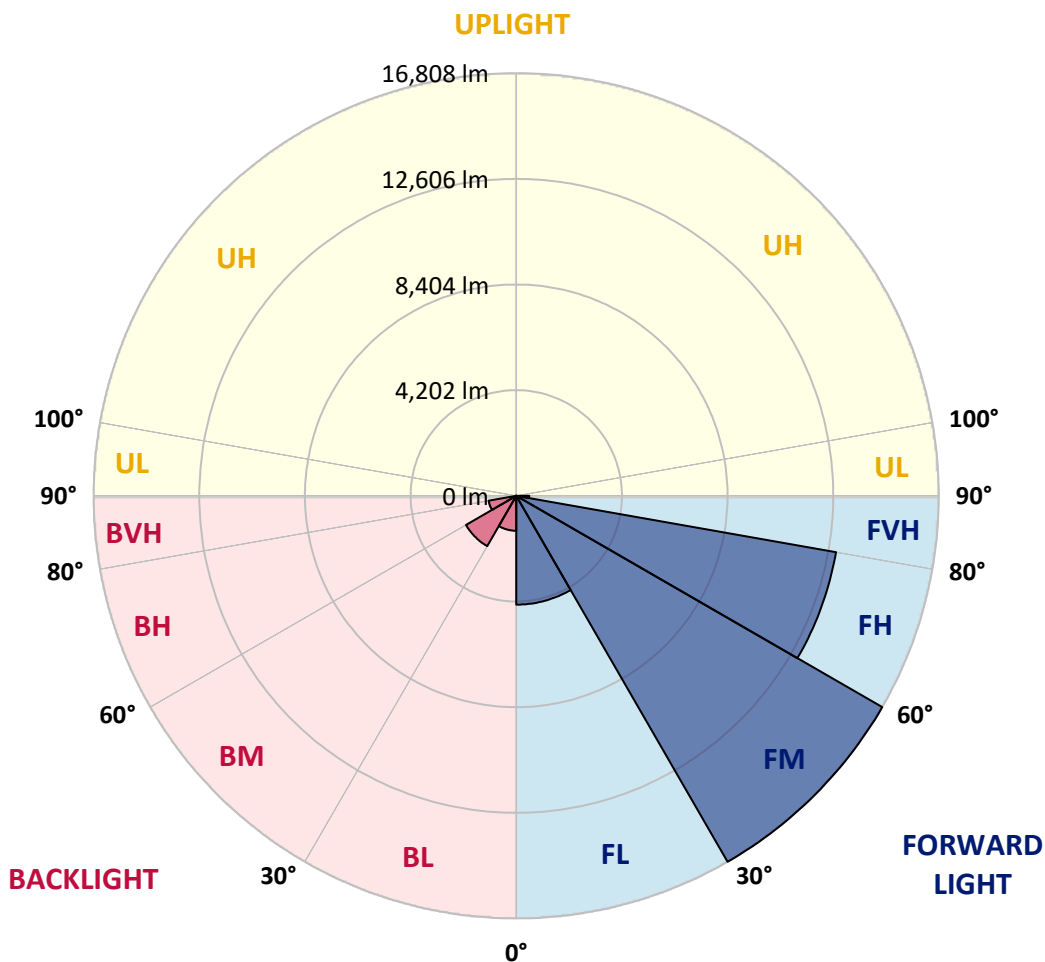


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4327.9	11.0			
FM (30°-60°)	16808.4	42.6			
FH (60°-80°)	12916.1	32.8			G5
FVH (80°-90°)	518.7	1.3			G4/750
BL (0°-30°)	1389.8	3.5	B3/2500		
BM (30°-60°)	2310.2	5.9	B2/2500		
BH (60°-80°)	1115.4	2.8	B3/2500		G3/2500
BVH (80°-90°)	48.5	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8
2.5°	14328.8	14265.9	14122.0	13684.3	13303.6	12806.0	12302.4	11906.7	11663.9	11217.3	11013.4
5°	13882.2	13912.2	13495.5	12596.2	11595.0	10911.5	10165.1	9571.5	8918.1	8504.4	8069.7
7.5°	12716.1	12656.1	12203.4	10950.5	9733.4	8744.2	7799.9	7032.5	6549.9	6163.2	5839.5
10°	11717.8	11672.9	11094.3	9481.6	8174.6	7434.2	6795.7	6124.2	5605.7	5039.1	4586.4
12.5°	11091.4	10989.4	10323.9	8639.2	7575.1	6885.6	6190.2	5491.7	4775.3	4202.8	3654.2
15°	10881.5	10734.6	9994.2	8348.5	7191.4	6316.1	5443.7	4640.4	3816.0	3183.5	2769.9
17.5°	11262.2	11019.4	10231.0	8297.5	6732.8	5572.7	4499.5	3453.3	2596.0	2113.3	1858.5
20°	12134.5	11855.7	10830.5	8246.6	6223.1	4739.3	3420.3	2440.1	1795.6	1531.8	1390.9
22.5°	13429.5	13045.8	11717.8	8327.5	5752.5	3926.9	2470.1	1723.6	1426.9	1262.0	1163.1
25°	14985.3	14664.6	12842.0	8615.3	5380.8	3288.4	1909.5	1408.9	1202.1	1100.1	1025.2
27.5°	16691.0	16178.3	14295.9	8960.0	5042.1	2793.8	1675.7	1259.0	1070.2	977.3	938.3
30°	17905.0	17506.3	15512.9	9199.9	4619.4	2422.1	1531.8	1241.1	1073.2	962.2	890.3
32.5°	19104.1	18594.5	16532.1	9310.7	4310.6	2164.3	1325.0	1082.2	941.2	884.3	812.4
35°	20387.1	19853.5	17548.3	9250.8	4079.8	1993.4	1202.1	965.3	806.3	710.4	638.5
37.5°	21685.1	21121.5	18558.5	9035.0	3935.9	1924.5	1106.1	917.3	761.4	662.5	584.5
40°	23225.9	22473.5	19505.8	8858.1	3786.0	1888.5	1043.2	887.3	728.4	623.5	545.6
42.5°	24484.9	23768.4	20402.1	8765.1	3684.1	1804.6	1043.2	863.3	707.4	590.5	509.6
45°	25677.9	24934.6	21370.3	8840.1	3642.1	1699.7	1055.2	860.4	692.5	566.6	485.6
47.5°	26676.2	26031.7	22365.5	9121.9	3588.2	1585.7	992.2	902.3	683.5	545.6	461.7
50°	27854.3	27230.8	23681.5	9691.4	3492.3	1471.9	914.3	971.2	680.5	527.6	440.7
52.5°	29515.0	28840.5	25498.1	10339.0	3339.4	1298.0	842.4	962.2	668.4	497.6	419.7
55°	31544.4	30998.8	27602.5	11115.3	3129.6	1103.2	728.4	854.3	632.5	446.6	383.7
57.5°	32845.4	32380.7	29179.3	11451.1	2808.8	902.3	641.5	716.4	578.6	398.7	341.7
59°	32998.3	32578.6	29509.0	11340.2	2599.0	824.3	599.5	614.5	563.5	371.7	317.7
60°	32869.4	32434.7	29377.1	11124.3	2404.1	770.4	563.5	545.6	566.6	356.7	299.7
62.5°	32042.0	31298.6	28097.1	10030.2	2101.3	707.4	500.6	446.6	500.6	320.7	266.8
65°	30444.3	29329.1	25564.1	8489.4	1981.5	671.5	425.6	374.7	380.7	281.8	230.8
67.5°	27653.4	26247.5	22191.7	6897.6	1930.5	674.5	359.7	335.8	293.8	239.8	203.8
70°	23240.8	21837.9	17806.1	5674.6	1906.5	674.5	305.8	287.8	245.8	200.8	176.9
72.5°	16469.2	14958.4	12011.6	4457.5	1717.7	671.5	260.8	260.8	200.8	167.9	143.9
75°	9304.8	9316.8	7551.1	3153.5	1426.9	554.6	209.8	206.9	146.9	128.9	107.9
77.5°	5422.7	5326.8	5090.0	1355.0	662.5	251.8	146.9	125.9	101.9	92.9	77.9
80°	2787.8	2293.3	2233.3	491.6	236.8	158.9	101.9	72.0	65.9	60.0	53.9
82.5°	824.3	827.3	737.4	197.9	131.9	104.9	51.0	39.0	35.9	33.0	33.0
85°	56.9	35.9	42.0	60.0	81.0	42.0	3.0	9.0	9.0	12.0	15.0
87.5°	6.0	3.0	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°	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8
2.5°	10788.6	10920.5	10674.6	10680.7	10476.9	10542.8	10302.9	10380.9	10240.0	10347.9	10665.7
5°	8117.7	8147.7	7949.8	7886.8	7916.8	8039.8	8087.7	7868.8	7961.8	7778.9	7767.0
7.5°	5719.5	5755.5	5641.6	5626.6	5842.4	5791.5	5884.4	5659.6	5446.8	5539.6	5368.8
10°	4442.5	4292.6	4058.8	3992.9	3950.9	3977.9	3977.9	3774.1	3744.1	3663.1	3786.0
12.5°	3507.3	3324.4	3102.6	2802.8	2727.9	2721.9	2611.0	2431.1	2374.1	2305.2	2407.1
15°	2548.0	2473.1	2287.2	2119.3	1948.5	1915.5	1735.7	1588.8	1393.9	1367.0	1358.0
17.5°	1792.6	1681.7	1678.7	1582.8	1483.9	1417.9	1250.1	1082.2	1007.3	998.2	998.2
20°	1342.9	1304.0	1241.1	1229.1	1199.1	1124.2	974.2	884.3	848.3	851.4	863.3
22.5°	1130.1	1103.2	1046.2	1019.2	1007.3	941.2	830.4	770.4	752.4	752.4	755.4
25°	1010.2	986.3	923.3	881.3	866.3	818.4	731.4	686.5	671.5	671.5	671.5
27.5°	920.3	890.3	824.3	788.4	761.4	707.4	653.5	608.5	593.5	593.5	596.6
30°	857.3	824.3	764.4	716.4	674.5	626.5	581.5	542.5	524.6	521.6	524.6
32.5°	773.4	743.5	683.5	653.5	605.5	548.6	512.6	476.6	458.7	461.7	458.7
35°	602.5	593.5	551.5	560.5	533.6	485.6	452.7	413.7	392.7	389.7	395.7
37.5°	548.6	512.6	464.6	467.6	458.7	440.7	386.7	344.8	329.7	329.7	332.8
40°	506.6	470.7	416.7	389.7	392.7	392.7	335.8	290.8	275.8	272.8	278.7
42.5°	470.7	434.6	374.7	329.7	317.7	332.8	284.8	239.8	224.8	218.8	224.8
45°	446.6	407.7	338.7	287.8	251.8	269.8	233.8	197.9	179.9	179.9	176.9
47.5°	422.7	386.7	311.8	248.8	209.8	200.8	191.8	158.9	140.9	137.9	140.9
50°	401.7	365.7	281.8	215.8	176.9	155.9	155.9	125.9	113.9	107.9	111.0
52.5°	380.7	341.7	254.8	191.8	152.9	125.9	111.0	101.9	92.9	90.0	92.9
55°	350.7	311.8	227.9	164.9	131.9	104.9	86.9	83.9	77.9	72.0	77.9
57.5°	314.8	278.7	200.8	140.9	104.9	81.0	72.0	69.0	63.0	60.0	60.0
59°	293.8	260.8	185.9	122.9	92.9	72.0	65.9	63.0	56.9	51.0	53.9
60°	281.8	254.8	176.9	113.9	83.9	65.9	60.0	56.9	51.0	48.0	51.0
62.5°	248.8	227.9	155.9	92.9	65.9	48.0	42.0	44.9	42.0	39.0	42.0
65°	218.8	200.8	131.9	72.0	51.0	33.0	30.0	39.0	35.9	33.0	35.9
67.5°	194.8	173.8	111.0	53.9	35.9	18.0	21.0	33.0	33.0	30.0	33.0
70°	167.9	149.9	90.0	39.0	18.0	9.0	15.0	24.0	30.0	27.0	30.0
72.5°	137.9	116.9	69.0	27.0	9.0	0.0	9.0	21.0	30.0	27.0	30.0
75°	107.9	86.9	51.0	15.0	0.0	0.0	3.0	18.0	30.0	27.0	30.0
77.5°	77.9	63.0	30.0	3.0	0.0	0.0	3.0	18.0	30.0	27.0	30.0
80°	51.0	44.9	12.0	0.0	0.0	0.0	3.0	18.0	30.0	30.0	33.0
82.5°	33.0	24.0	0.0	0.0	0.0	0.0	6.0	24.0	33.0	35.9	35.9
85°	15.0	0.0	0.0	0.0	0.0	0.0	12.0	30.0	39.0	39.0	39.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.0	21.0	35.9	44.9	44.9	44.9
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°	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8
2.5°	10719.7	10908.5	11175.3	11586.0	11918.7	12443.3	12845.0	13393.5	13948.1	14116.0	14376.8
5°	7889.8	8132.6	8738.2	9289.7	9637.5	10746.6	11448.1	12554.2	13546.4	14023.1	14541.6
7.5°	5479.7	5767.5	6229.2	6999.6	7731.0	8633.3	9766.4	11031.4	12485.2	13165.8	13897.2
10°	3846.0	4205.7	4856.2	5488.8	6409.0	7266.3	8384.4	9781.4	11385.1	12188.5	13105.8
12.5°	2428.1	2748.9	3609.2	4319.7	5467.8	6463.0	7494.2	8759.2	10617.7	11442.1	12404.4
15°	1387.9	1657.7	2059.4	2970.7	4244.7	5560.6	6846.6	8315.5	10225.0	11241.2	12281.4
17.5°	1034.2	1106.1	1286.0	1801.6	2961.7	4499.5	6250.1	8180.6	10491.8	11684.9	12872.0
20°	869.3	917.3	1001.2	1205.0	1888.5	3465.3	5668.6	8204.6	11355.1	12854.0	13981.1
22.5°	779.4	809.4	878.3	1010.2	1289.0	2524.0	4988.1	8345.5	12401.3	14289.8	15590.9
25°	683.5	722.5	782.4	896.3	1073.2	1750.6	4316.6	8660.2	13867.2	16112.4	17335.5
27.5°	608.5	644.5	704.5	809.4	941.2	1337.0	3534.2	8930.0	15414.0	17947.0	18948.2
30°	533.6	569.6	629.5	713.5	833.3	1082.2	2691.9	9088.9	16915.8	19323.0	20093.3
32.5°	470.7	500.6	557.6	632.5	731.4	917.3	2122.3	8924.0	18063.9	20572.9	21088.5
35°	407.7	443.6	491.6	560.5	647.5	782.4	1765.6	8354.5	19050.2	21858.9	22044.8
37.5°	341.7	383.7	434.6	497.6	566.6	719.4	1417.9	7725.0	20105.3	23462.7	23156.9
40°	287.8	326.7	374.7	443.6	506.6	659.5	1091.1	7053.5	21244.4	24967.5	24371.0
42.5°	233.8	275.8	332.8	395.7	500.6	575.6	845.3	6358.0	22266.6	26277.5	25468.2
45°	185.9	221.8	281.8	362.7	497.6	494.6	653.5	5671.6	23037.0	27212.8	26286.5
47.5°	146.9	176.9	236.8	353.8	458.7	419.7	524.6	5245.9	23846.4	28055.1	26913.0
50°	116.9	146.9	203.8	368.7	401.7	359.7	440.7	5314.8	24628.8	28483.8	27170.8
52.5°	98.9	128.9	176.9	290.8	308.7	314.8	386.7	5632.6	25639.0	28942.4	27683.4
55°	86.9	113.9	149.9	203.8	239.8	281.8	353.8	5863.4	26990.9	29925.6	28813.5
57.5°	69.0	98.9	134.9	173.8	197.9	245.8	326.7	5881.4	28214.0	31187.7	30315.3
59°	63.0	90.0	125.9	164.9	176.9	221.8	308.7	5728.5	28258.9	31376.5	31004.8
60°	56.9	86.9	119.9	152.9	167.9	209.8	293.8	5551.7	27851.3	31076.8	31289.6
62.5°	48.0	74.9	104.9	122.9	143.9	173.8	254.8	4910.2	25875.8	29718.8	30762.0
65°	42.0	65.9	90.0	101.9	119.9	149.9	224.8	3930.0	23693.5	27878.2	29251.2
67.5°	39.0	60.0	77.9	86.9	104.9	137.9	200.8	2775.8	20866.7	25543.1	26981.9
70°	35.9	56.9	69.0	81.0	92.9	116.9	170.9	1618.8	16073.5	21448.2	22968.1
72.5°	35.9	53.9	60.0	69.0	81.0	104.9	158.9	875.3	10989.4	16361.3	18324.7
75°	35.9	51.0	53.9	60.0	72.0	95.9	140.9	458.7	7104.5	11367.1	14029.1
77.5°	35.9	48.0	53.9	56.9	69.0	83.9	122.9	287.8	4733.3	7961.8	9481.6
80°	39.0	48.0	51.0	56.9	65.9	77.9	101.9	191.8	2781.8	4790.2	5770.5
82.5°	42.0	48.0	53.9	60.0	69.0	74.9	90.0	119.9	1283.0	3168.6	3585.2
85°	44.9	51.0	56.9	63.0	72.0	74.9	83.9	86.9	209.8	1429.9	1933.5
87.5°	48.0	53.9	60.0	65.9	77.9	77.9	77.9	77.9	72.0	152.9	389.7
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: P647670

CATALOG NUMBER: GALN-SA9D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8	13033.8
2.5°	14706.5	15045.3	15282.0	15342.0	15171.2	15093.3	14877.4	14541.6	14337.8	14328.8
5°	15497.9	16292.3	16843.9	16936.8	16607.0	16049.5	15387.0	14532.6	14032.1	13882.2
7.5°	15363.0	16753.9	17641.2	17770.1	17215.6	16151.4	14868.4	13492.5	12946.9	12716.1
10°	14808.5	16505.1	17773.2	17977.0	17236.6	15737.8	14107.0	12572.2	11894.7	11717.8
12.5°	14334.9	16049.5	17176.6	17458.4	16897.8	15402.0	13651.4	11981.6	11256.3	11091.4
15°	14128.0	15509.9	16199.3	16343.2	16250.3	15192.2	13603.4	11891.7	11061.4	10881.5
17.5°	14334.9	15051.3	15138.2	15285.1	15491.9	15171.2	14065.0	12380.3	11484.0	11262.2
20°	14877.4	14652.6	14292.9	14355.8	14829.5	15258.1	14886.4	13462.5	12371.3	12134.5
22.5°	15800.7	14553.6	13738.3	13684.3	14283.9	15548.9	16091.4	14928.4	13663.4	13429.5
25°	16933.8	14802.5	13534.5	13417.6	14071.1	15974.5	17401.4	16723.9	15342.0	14985.3
27.5°	18168.8	15318.1	13534.5	13420.5	14053.0	16352.3	18522.6	18312.7	17080.7	16691.0
30°	18846.3	15743.7	13729.3	13600.4	14274.9	16571.1	19122.1	19724.6	18387.7	17905.0
32.5°	19451.8	16334.2	14110.0	13867.2	14739.5	16894.8	19658.7	20923.7	19427.9	19104.1
35°	20009.4	16966.7	14634.6	14352.8	15351.0	17338.5	20252.2	22182.7	20875.7	20387.1
37.5°	20623.9	17701.2	15453.0	15213.1	16373.2	18201.8	20956.7	23837.4	22299.6	21685.1
40°	21292.4	18552.6	16798.9	16697.0	17998.0	19179.0	21847.0	25603.0	23924.3	23225.9
42.5°	21972.9	19532.8	18447.6	18615.5	19838.6	20549.0	22761.3	26961.0	25255.3	24484.9
45°	22590.4	20785.8	20590.9	21421.3	21984.8	21885.9	23438.7	27917.2	26415.4	25677.9
47.5°	23369.8	22611.4	23183.9	24463.9	24478.9	23339.8	23951.3	28699.6	27413.6	26676.2
50°	24242.1	24766.7	26532.3	27836.3	27485.6	24769.7	24550.9	29625.9	28444.8	27854.3
52.5°	25252.3	27179.8	29625.9	31073.7	30255.4	26328.5	25549.1	30627.1	30081.5	29515.0
55°	26427.4	28825.5	32710.5	33864.6	33040.3	28265.0	27065.9	31985.1	31931.1	31544.4
57.5°	27755.4	30564.2	34497.1	36058.9	35324.4	30537.2	29185.2	33265.1	33061.2	32845.4
59°	28804.5	31457.5	35285.5	36904.2	36460.6	32128.9	30609.1	34062.5	33322.0	32998.3
60°	29440.0	32063.0	35576.2	37018.1	36916.2	33076.2	31511.4	34452.2	33319.0	32869.4
62.5°	31325.6	33121.1	35465.4	36511.5	36910.2	34892.8	34158.4	34880.8	32701.5	32042.0
65°	31997.1	32770.4	33627.7	33498.9	33840.6	34799.9	35849.0	34410.2	31382.6	30444.3
67.5°	30690.1	28924.4	29227.2	28366.9	28199.0	30938.8	35162.6	32107.9	28801.6	27653.4
70°	25869.9	22158.7	22005.8	22401.6	21316.4	25048.5	31574.4	27674.4	24541.9	23240.8
72.5°	20363.1	15659.8	14370.8	15827.6	15794.7	19110.1	26229.6	19637.7	16580.1	16469.2
75°	16013.5	10902.5	9568.6	9805.4	10261.0	13834.2	20890.7	12470.3	10210.0	9304.8
77.5°	10749.7	7725.0	7206.4	6915.6	7407.3	8882.0	13216.7	6762.7	5725.5	5422.7
80°	6196.2	5611.6	6373.0	5785.5	6049.3	5596.6	6573.9	3102.6	2575.0	2787.8
82.5°	4031.8	3195.5	3405.3	2530.0	3459.3	3489.3	2110.3	917.3	776.4	824.3
85°	2521.0	1498.8	842.4	599.5	1193.1	2194.3	659.5	56.9	65.9	56.9
87.5°	653.5	248.8	104.9	155.9	191.8	170.9	152.9	9.0	3.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)