

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: P647505

Luminaire Tested: **GALN-SA6D-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647505
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-SA6D-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 25795.1 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

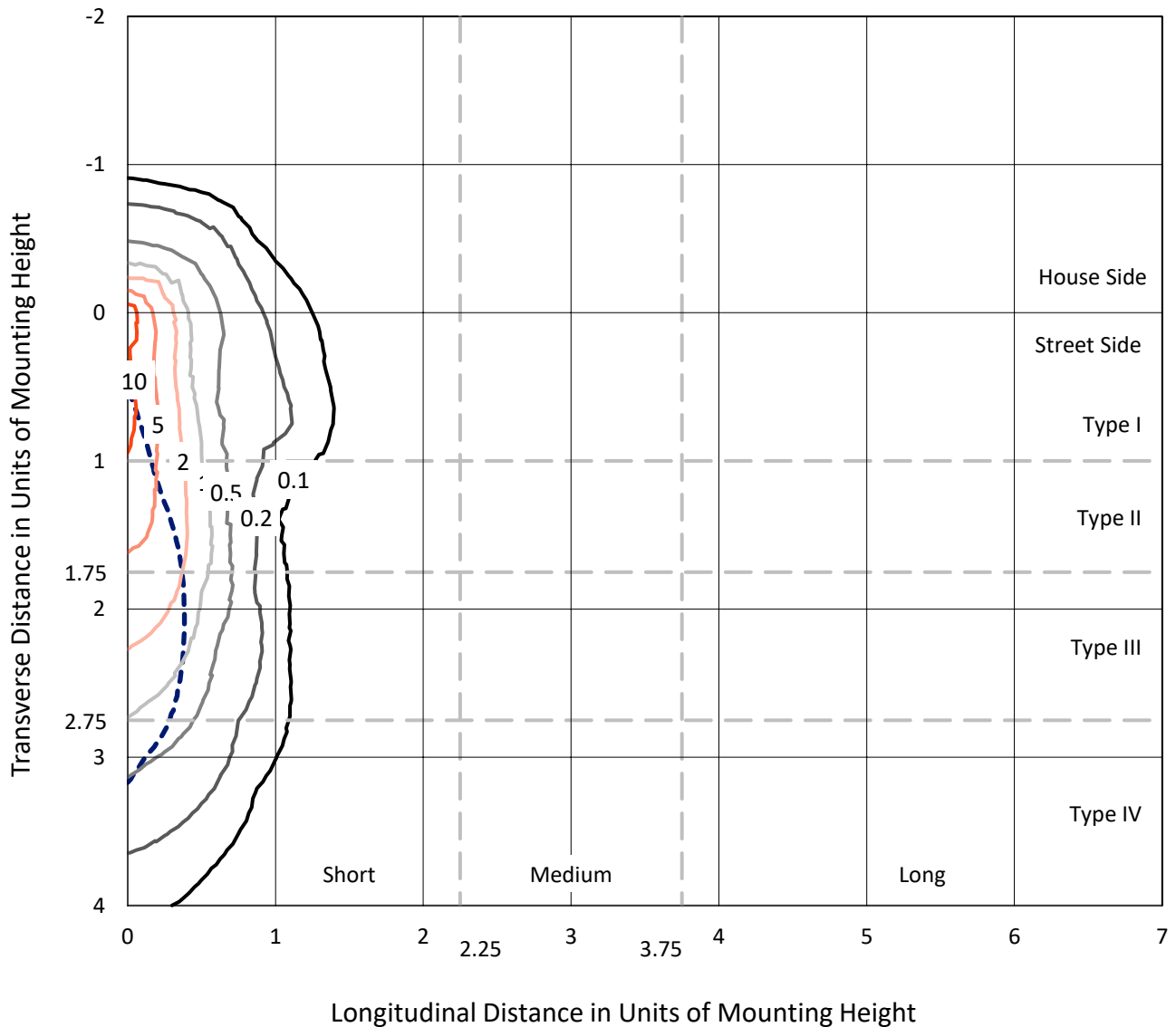
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

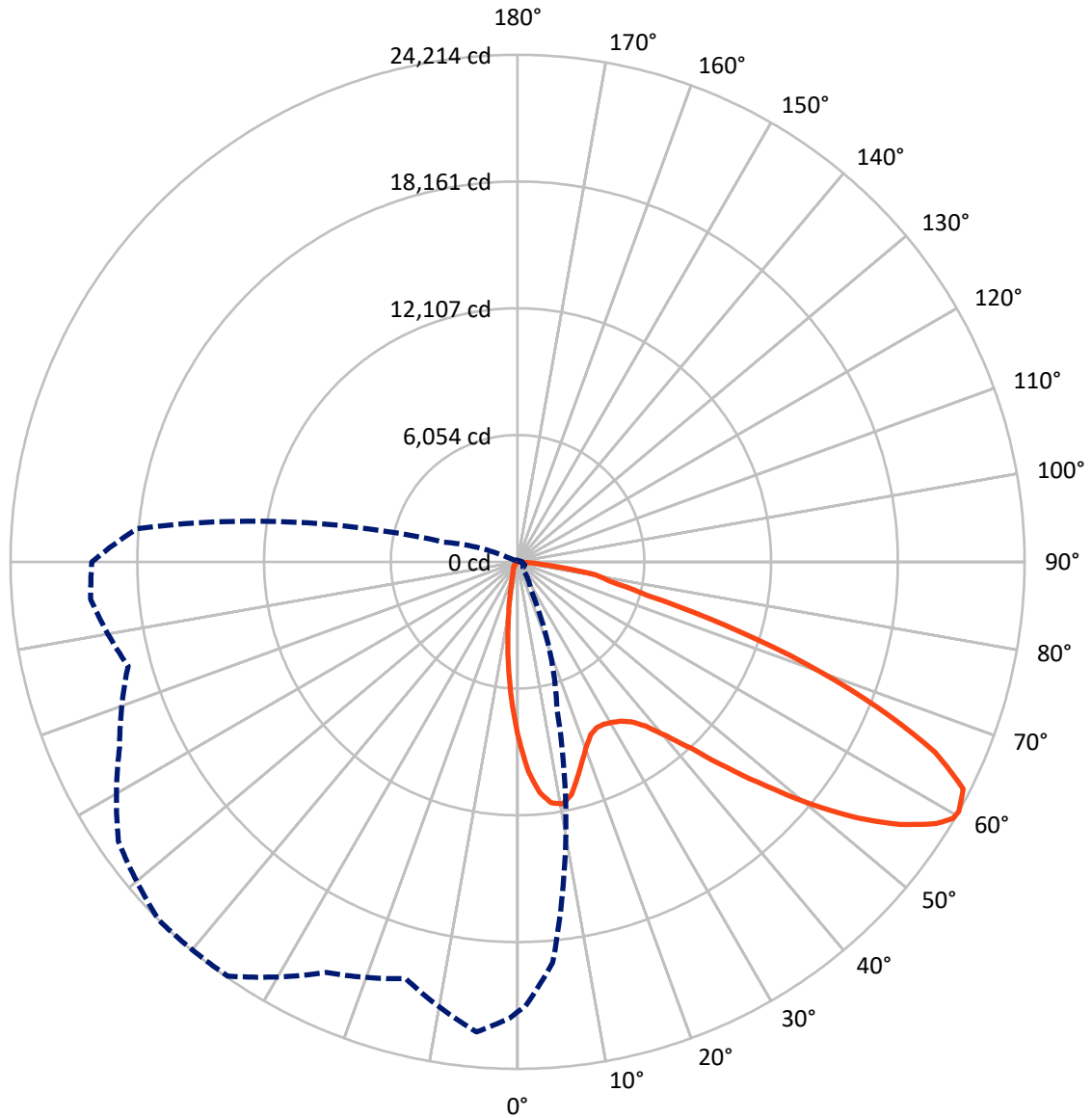
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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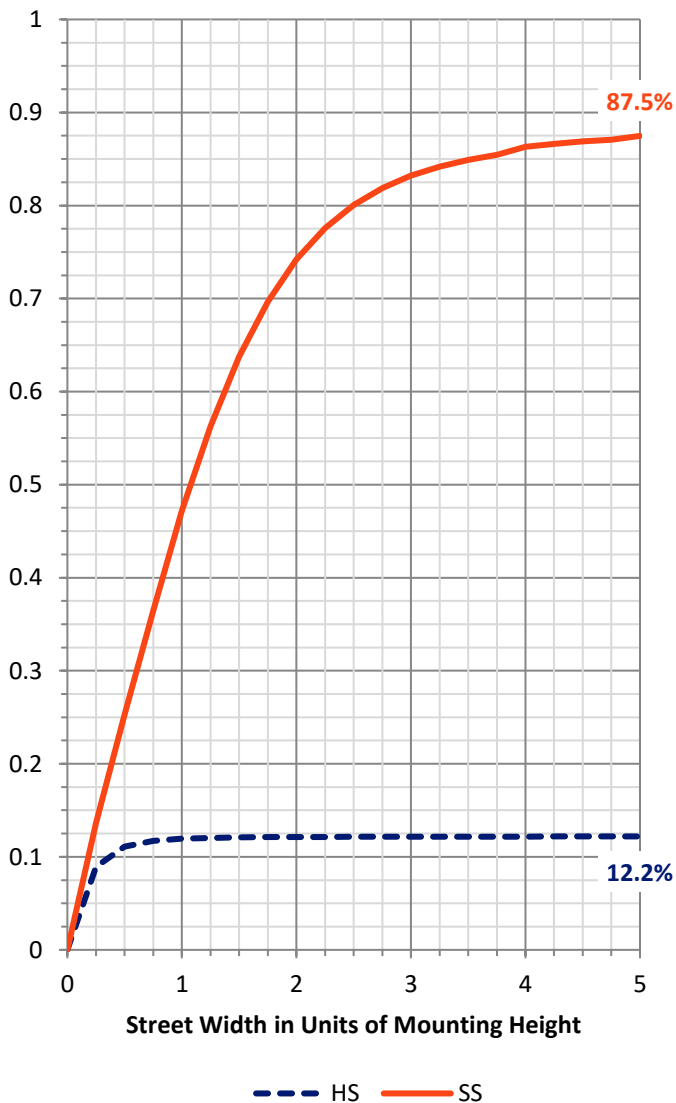
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.6	0.0	3181.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22613.6	0.0	22613.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	25795.1	0.0	25795.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.1	2.5
10°-20°	1259.3	4.9
20°-30°	1846.5	7.2
30°-40°	2746.1	10.6
40°-50°	3996.5	15.5
50°-60°	5763.2	22.3
60°-70°	6338.9	24.6
70°-80°	2839.3	11.0
80°-90°	371.0	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°	25795.1	100.0
0°-180°	25795.1	100.0



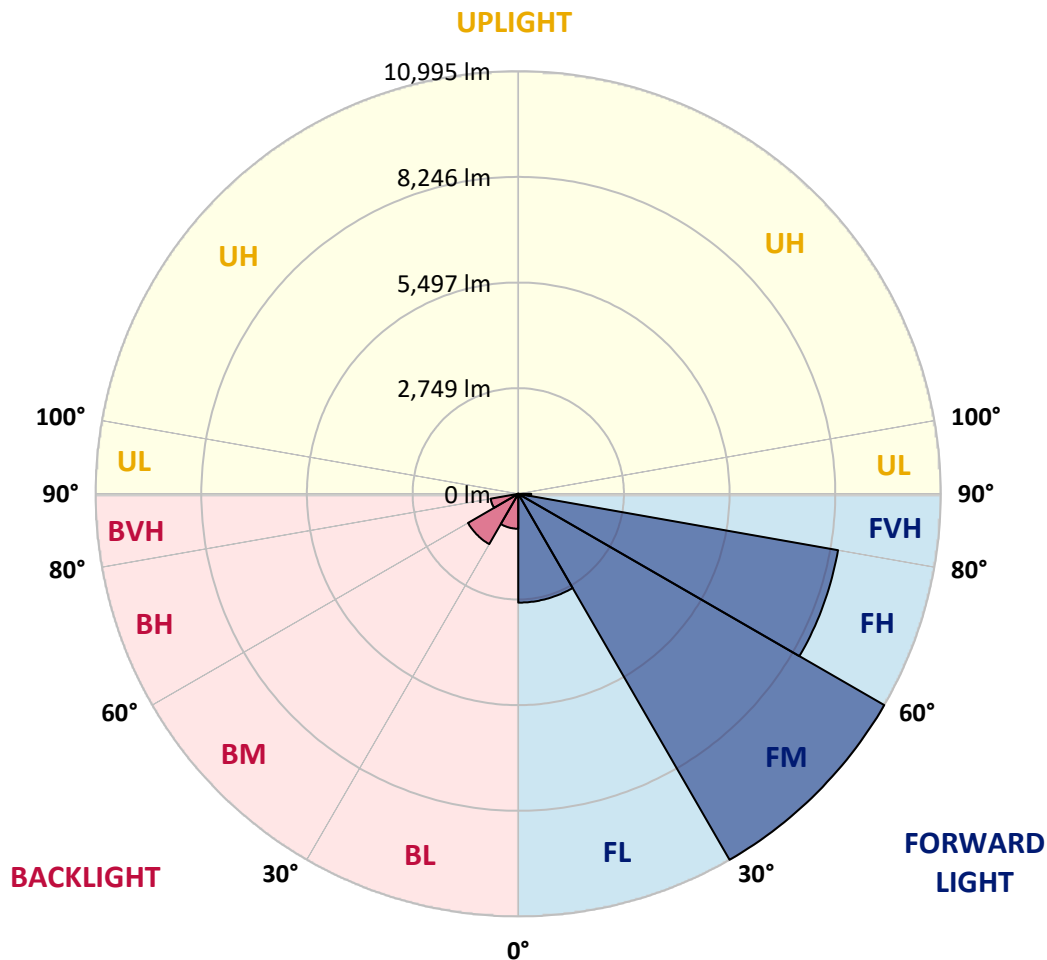
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2830.9	11.0			
FM (30°-60°)	10994.7	42.6			
FH (60°-80°)	8448.7	32.8			G4/12000
FVH (80°-90°)	339.3	1.3			G3/500
BL (0°-30°)	909.1	3.5	B2/1000		
BM (30°-60°)	1511.2	5.9	B2/2500		
BH (60°-80°)	729.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	9372.7	9331.6	9237.4	8951.2	8702.1	8376.6	8047.2	7788.4	7629.6	7337.4	7204.1
5°	9080.6	9100.2	8827.6	8239.4	7584.5	7137.4	6649.2	6260.9	5833.4	5562.8	5278.5
7.5°	8317.8	8278.6	7982.5	7162.9	6366.8	5719.7	5102.0	4600.1	4284.4	4031.4	3819.7
10°	7664.9	7635.4	7257.0	6202.1	5347.2	4862.8	4445.2	4006.0	3666.7	3296.1	3000.1
12.5°	7255.0	7188.4	6753.1	5651.1	4955.0	4504.1	4049.1	3592.2	3123.6	2749.1	2390.3
15°	7117.8	7021.7	6537.4	5460.9	4704.0	4131.4	3560.8	3035.4	2496.1	2082.4	1811.8
17.5°	7366.9	7208.0	6692.3	5427.6	4404.0	3645.2	2943.2	2258.9	1698.1	1382.4	1215.7
20°	7937.4	7755.1	7084.4	5394.2	4070.7	3100.1	2237.3	1596.1	1174.5	1002.0	909.8
22.5°	8784.5	8533.5	7664.9	5447.2	3762.8	2568.7	1615.7	1127.4	933.3	825.5	760.8
25°	9802.1	9592.4	8400.2	5635.4	3519.7	2151.1	1249.0	921.6	786.3	719.7	670.6
27.5°	10917.8	10582.6	9351.2	5860.9	3298.1	1827.5	1096.1	823.6	700.0	639.2	613.7
30°	11712.0	11451.2	10147.3	6017.7	3021.6	1584.3	1002.0	811.8	702.0	629.5	582.4
32.5°	12496.4	12163.0	10813.9	6090.3	2819.7	1415.7	866.7	707.8	615.7	578.5	531.4
35°	13335.6	12986.5	11478.7	6051.1	2668.7	1303.9	786.3	631.4	527.4	464.7	417.7
37.5°	14184.6	13816.0	12139.5	5909.9	2574.6	1258.8	723.6	600.0	498.1	433.3	382.3
40°	15192.5	14700.3	12759.1	5794.2	2476.6	1235.3	682.4	580.4	476.5	407.9	356.9
42.5°	16016.0	15547.4	13345.4	5733.4	2409.8	1180.5	682.4	564.7	462.8	386.3	333.3
45°	16796.4	16310.1	13978.7	5782.5	2382.4	1111.8	690.2	562.7	453.0	370.6	317.7
47.5°	17449.4	17027.8	14629.7	5966.8	2347.1	1037.2	649.0	590.2	447.1	356.9	302.0
50°	18220.0	17812.2	15490.5	6339.3	2284.3	962.8	598.1	635.3	445.1	345.1	288.2
52.5°	19306.3	18865.1	16678.8	6762.8	2184.3	849.0	551.0	629.5	437.2	325.5	274.5
55°	20633.8	20276.9	18055.3	7270.7	2047.1	721.6	476.5	558.8	413.7	292.1	251.0
57.5°	21484.7	21180.9	19086.6	7490.3	1837.3	590.2	419.6	468.6	378.4	260.8	223.5
59°	21584.7	21310.2	19302.4	7417.8	1700.0	539.3	392.1	402.0	368.6	243.1	207.9
60°	21500.5	21216.1	19216.1	7276.7	1572.6	503.9	368.6	356.9	370.6	233.3	196.1
62.5°	20959.3	20472.9	18378.8	6560.9	1374.6	462.8	327.5	292.1	327.5	209.8	174.5
65°	19914.1	19184.7	16721.9	5553.0	1296.1	439.3	278.4	245.1	249.0	184.3	151.0
67.5°	18088.6	17169.0	14516.0	4511.9	1262.7	441.2	235.3	219.6	192.1	156.8	133.3
70°	15202.3	14284.6	11647.3	3711.8	1247.1	441.2	200.0	188.2	160.7	131.4	115.7
72.5°	10772.7	9784.5	7857.0	2915.7	1123.5	439.3	170.6	170.6	131.4	109.8	94.1
75°	6086.4	6094.2	4939.3	2062.8	933.3	362.8	137.3	135.3	96.1	84.3	70.6
77.5°	3547.1	3484.4	3329.5	886.3	433.3	164.7	96.1	82.4	66.6	60.8	51.0
80°	1823.5	1500.0	1460.8	321.6	154.9	103.9	66.6	47.1	43.1	39.2	35.3
82.5°	539.3	541.2	482.3	129.4	86.3	68.6	33.4	25.5	23.6	21.5	21.5
85°	37.3	23.6	27.5	39.2	52.9	27.5	2.0	5.9	5.9	7.8	9.8
87.5°	3.9	2.0	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°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	7057.0	7143.3	6982.5	6986.4	6853.1	6896.2	6739.4	6790.3	6698.2	6768.8	6976.6
5°	5309.9	5329.5	5200.1	5159.0	5178.5	5258.9	5290.3	5147.1	5208.0	5088.3	5080.5
7.5°	3741.3	3764.8	3690.3	3680.5	3821.7	3788.3	3849.1	3702.0	3562.8	3623.6	3511.8
10°	2905.9	2807.9	2654.9	2611.9	2584.4	2602.0	2602.0	2468.6	2449.1	2396.1	2476.6
12.5°	2294.2	2174.5	2029.5	1833.4	1784.4	1780.5	1707.9	1590.2	1553.0	1507.9	1574.5
15°	1666.7	1617.7	1496.1	1386.3	1274.6	1253.0	1135.4	1039.3	911.8	894.1	888.2
17.5°	1172.5	1100.0	1098.1	1035.3	970.6	927.5	817.7	707.8	658.8	652.9	652.9
20°	878.4	852.9	811.8	803.9	784.3	735.3	637.3	578.5	554.9	556.9	564.7
22.5°	739.2	721.6	684.3	666.6	658.8	615.7	543.2	503.9	492.2	492.2	494.2
25°	660.8	645.1	603.9	576.4	566.7	535.3	478.4	449.1	439.3	439.3	439.3
27.5°	602.0	582.4	539.3	515.7	498.1	462.8	427.4	398.1	388.2	388.2	390.2
30°	560.8	539.3	500.0	468.6	441.2	409.8	380.4	354.9	343.1	341.2	343.1
32.5°	505.9	486.3	447.1	427.4	396.1	358.8	335.3	311.8	300.0	302.0	300.0
35°	394.2	388.2	360.8	366.7	349.1	317.7	296.1	270.6	256.9	254.9	258.9
37.5°	358.8	335.3	304.0	305.9	300.0	288.2	252.9	225.5	215.7	215.7	217.7
40°	331.4	307.9	272.6	254.9	256.9	256.9	219.6	190.2	180.4	178.4	182.4
42.5°	307.9	284.3	245.1	215.7	207.9	217.7	186.3	156.8	147.0	143.1	147.0
45°	292.1	266.7	221.6	188.2	164.7	176.5	152.9	129.4	117.7	117.7	115.7
47.5°	276.5	252.9	203.9	162.8	137.3	131.4	125.5	103.9	92.2	90.2	92.2
50°	262.8	239.2	184.3	141.2	115.7	101.9	101.9	82.4	74.5	70.6	72.6
52.5°	249.0	223.5	166.7	125.5	100.0	82.4	72.6	66.6	60.8	58.8	60.8
55°	229.4	203.9	149.0	107.8	86.3	68.6	56.8	54.9	51.0	47.1	51.0
57.5°	205.9	182.4	131.4	92.2	68.6	52.9	47.1	45.1	41.2	39.2	39.2
59°	192.1	170.6	121.6	80.4	60.8	47.1	43.1	41.2	37.3	33.4	35.3
60°	184.3	166.7	115.7	74.5	54.9	43.1	39.2	37.3	33.4	31.4	33.4
62.5°	162.8	149.0	101.9	60.8	43.1	31.4	27.5	29.4	27.5	25.5	27.5
65°	143.1	131.4	86.3	47.1	33.4	21.5	19.6	25.5	23.6	21.5	23.6
67.5°	127.5	113.7	72.6	35.3	23.6	11.7	13.7	21.5	21.5	19.6	21.5
70°	109.8	98.0	58.8	25.5	11.7	5.9	9.8	15.7	19.6	17.6	19.6
72.5°	90.2	76.5	45.1	17.6	5.9	0.0	5.9	13.7	19.6	17.6	19.6
75°	70.6	56.8	33.4	9.8	0.0	0.0	2.0	11.7	19.6	17.6	19.6
77.5°	51.0	41.2	19.6	2.0	0.0	0.0	2.0	11.7	19.6	17.6	19.6
80°	33.4	29.4	7.8	0.0	0.0	0.0	2.0	11.7	19.6	19.6	21.5
82.5°	21.5	15.7	0.0	0.0	0.0	0.0	3.9	15.7	21.5	23.6	23.6
85°	9.8	0.0	0.0	0.0	0.0	0.0	7.8	19.6	25.5	25.5	25.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	13.7	23.6	29.4	29.4	29.4
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°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	7011.9	7135.5	7309.9	7578.6	7796.3	8139.4	8402.1	8761.0	9123.8	9233.5	9404.1
5°	5160.9	5319.7	5715.8	6076.6	6304.1	7029.5	7488.4	8211.9	8861.0	9172.8	9512.0
7.5°	3584.4	3772.7	4074.6	4578.5	5057.0	5647.2	6388.3	7215.8	8166.8	8611.9	9090.4
10°	2515.7	2751.1	3176.6	3590.3	4192.3	4753.0	5484.4	6398.2	7447.2	7972.7	8572.8
12.5°	1588.2	1798.1	2360.8	2825.5	3576.5	4227.6	4902.0	5729.5	6945.2	7484.5	8113.9
15°	907.9	1084.3	1347.1	1943.2	2776.5	3637.3	4478.5	5439.3	6688.4	7353.1	8033.5
17.5°	676.5	723.6	841.2	1178.5	1937.3	2943.2	4088.4	5351.1	6862.9	7643.3	8419.8
20°	568.6	600.0	654.9	788.2	1235.3	2266.7	3707.9	5366.8	7427.6	8408.0	9145.3
22.5°	509.8	529.4	574.5	660.8	843.1	1651.0	3262.8	5458.9	8112.0	9347.2	10198.3
25°	447.1	472.5	511.8	586.3	702.0	1145.1	2823.6	5664.8	9070.7	10539.4	11339.5
27.5°	398.1	421.6	460.8	529.4	615.7	874.5	2311.8	5841.3	10082.5	11739.4	12394.3
30°	349.1	372.6	411.8	466.7	545.1	707.8	1760.8	5945.2	11065.0	12639.5	13143.4
32.5°	307.9	327.5	364.7	413.7	478.4	600.0	1388.3	5837.3	11815.9	13457.1	13794.4
35°	266.7	290.2	321.6	366.7	423.5	511.8	1154.9	5464.8	12461.1	14298.4	14419.9
37.5°	223.5	251.0	284.3	325.5	370.6	470.6	927.5	5053.0	13151.3	15347.3	15147.4
40°	188.2	213.8	245.1	290.2	331.4	431.4	713.7	4613.8	13896.4	16331.7	15941.5
42.5°	152.9	180.4	217.7	258.9	327.5	376.5	553.0	4158.9	14565.0	17188.6	16659.2
45°	121.6	145.1	184.3	237.2	325.5	323.5	427.4	3709.9	15068.9	17800.3	17194.4
47.5°	96.1	115.7	154.9	231.4	300.0	274.5	343.1	3431.4	15598.4	18351.3	17604.3
50°	76.5	96.1	133.3	241.2	262.8	235.3	288.2	3476.5	16110.1	18631.7	17772.9
52.5°	64.7	84.3	115.7	190.2	201.9	205.9	252.9	3684.4	16770.9	18931.8	18108.2
55°	56.8	74.5	98.0	133.3	156.8	184.3	231.4	3835.4	17655.2	19574.9	18847.4
57.5°	45.1	64.7	88.2	113.7	129.4	160.7	213.8	3847.1	18455.3	20400.4	19829.8
59°	41.2	58.8	82.4	107.8	115.7	145.1	201.9	3747.1	18484.7	20523.9	20280.8
60°	37.3	56.8	78.5	100.0	109.8	137.3	192.1	3631.5	18218.1	20327.9	20467.1
62.5°	31.4	49.0	68.6	80.4	94.1	113.7	166.7	3211.9	16925.9	19439.6	20122.0
65°	27.5	43.1	58.8	66.6	78.5	98.0	147.0	2570.7	15498.4	18235.7	19133.7
67.5°	25.5	39.2	51.0	56.8	68.6	90.2	131.4	1815.7	13649.3	16708.2	17649.4
70°	23.6	37.3	45.1	52.9	60.8	76.5	111.7	1058.9	10514.0	14029.7	15023.8
72.5°	23.6	35.3	39.2	45.1	52.9	68.6	103.9	572.5	7188.4	10702.2	11986.6
75°	23.6	33.4	35.3	39.2	47.1	62.7	92.2	300.0	4647.2	7435.4	9176.7
77.5°	23.6	31.4	35.3	37.3	45.1	54.9	80.4	188.2	3096.1	5208.0	6202.1
80°	25.5	31.4	33.4	37.3	43.1	51.0	66.6	125.5	1819.6	3133.4	3774.6
82.5°	27.5	31.4	35.3	39.2	45.1	49.0	58.8	78.5	839.2	2072.6	2345.2
85°	29.4	33.4	37.3	41.2	47.1	49.0	54.9	56.8	137.3	935.3	1264.7
87.5°	31.4	35.3	39.2	43.1	51.0	51.0	51.0	51.0	47.1	100.0	254.9
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: P647505

CATALOG NUMBER: GALN-SA6D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	9619.8	9841.4	9996.2	10035.5	9923.7	9872.8	9731.6	9512.0	9378.6	9372.7
5°	10137.5	10657.1	11017.9	11078.7	10863.0	10498.2	10064.9	9506.1	9178.6	9080.6
7.5°	10049.3	10959.0	11539.5	11623.8	11261.0	10564.9	9725.7	8825.7	8468.8	8317.8
10°	9686.5	10796.3	11625.7	11759.1	11274.7	10294.3	9227.7	8223.7	7780.5	7664.9
12.5°	9376.7	10498.2	11235.5	11419.8	11053.1	10074.7	8929.6	7837.4	7362.9	7255.0
15°	9241.4	10145.3	10596.3	10690.5	10629.6	9937.4	8898.2	7778.6	7235.5	7117.8
17.5°	9376.7	9845.3	9902.1	9998.3	10133.5	9923.7	9200.2	8098.2	7511.9	7366.9
20°	9731.6	9584.5	9349.2	9390.4	9700.2	9980.6	9737.5	8806.1	8092.3	7937.4
22.5°	10335.5	9519.8	8986.5	8951.2	9343.3	10170.8	10525.7	9764.9	8937.5	8784.5
25°	11076.7	9682.6	8853.1	8776.6	9204.1	10449.2	11382.5	10939.4	10035.5	9802.1
27.5°	11884.5	10019.8	8853.1	8778.6	9192.3	10696.3	12115.9	11978.6	11172.8	10917.8
30°	12327.7	10298.3	8980.5	8896.3	9337.4	10839.5	12508.1	12902.2	12027.7	11712.0
32.5°	12723.8	10684.5	9229.6	9070.7	9641.4	11051.2	12859.1	13686.5	12708.1	12496.4
35°	13088.5	11098.2	9572.7	9388.4	10041.3	11341.4	13247.3	14510.1	13655.2	13335.6
37.5°	13490.5	11578.7	10108.1	9951.1	10710.0	11906.1	13708.1	15592.5	14586.6	14184.6
40°	13927.8	12135.6	10988.5	10921.8	11772.8	12545.4	14290.5	16747.4	15649.4	15192.5
42.5°	14372.8	12776.8	12066.9	12176.7	12976.7	13441.4	14888.5	17635.7	16520.0	16016.0
45°	14776.8	13596.3	13468.9	14012.0	14380.7	14316.0	15331.7	18261.1	17278.8	16796.4
47.5°	15286.6	14790.5	15165.0	16002.3	16012.1	15267.0	15667.0	18773.0	17931.7	17449.4
50°	15857.2	16200.3	17355.3	18208.2	17978.8	16202.3	16059.2	19378.9	18606.3	18220.0
52.5°	16518.0	17778.8	19378.9	20325.9	19790.6	17221.9	16712.1	20033.8	19676.9	19306.3
55°	17286.6	18855.3	21396.5	22151.5	21612.2	18488.6	17704.3	20922.0	20886.7	20633.8
57.5°	18155.3	19992.6	22565.2	23586.8	23106.3	19975.0	19090.6	21759.3	21625.9	21484.7
59°	18841.6	20576.9	23080.9	24139.7	23849.5	21016.1	20022.0	22280.9	21796.5	21584.7
60°	19257.3	20973.0	23271.1	24214.2	24147.6	21635.8	20612.2	22535.8	21794.6	21500.5
62.5°	20490.6	21665.1	23198.5	23882.8	24143.6	22824.0	22343.6	22816.2	21390.6	20959.3
65°	20929.8	21435.7	21996.5	21912.3	22135.7	22763.2	23449.5	22508.3	20527.9	19914.1
67.5°	20074.9	18920.0	19118.0	18555.3	18445.4	20237.7	23000.5	21002.4	18839.6	18088.6
70°	16921.9	14494.4	14394.4	14653.2	13943.4	16384.7	20653.3	18102.3	16053.3	15202.3
72.5°	13319.8	10243.4	9400.2	10353.1	10331.6	12500.3	17157.3	12845.3	10845.3	10772.7
75°	10474.7	7131.5	6259.0	6413.9	6711.9	9049.2	13665.0	8157.1	6678.6	6086.4
77.5°	7031.5	5053.0	4713.8	4523.6	4845.2	5809.9	8645.3	4423.6	3745.2	3547.1
80°	4053.0	3670.6	4168.7	3784.4	3957.0	3660.8	4300.1	2029.5	1684.3	1823.5
82.5°	2637.3	2090.2	2227.5	1654.9	2262.8	2282.4	1380.4	600.0	507.9	539.3
85°	1649.1	980.4	551.0	392.1	780.4	1435.3	431.4	37.3	43.1	37.3
87.5°	427.4	162.8	68.6	101.9	125.5	111.7	100.0	5.9	2.0	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)