

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: P648381

Luminaire Tested: **GALN-SA4B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648381
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-SA4B-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA 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: 12658 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

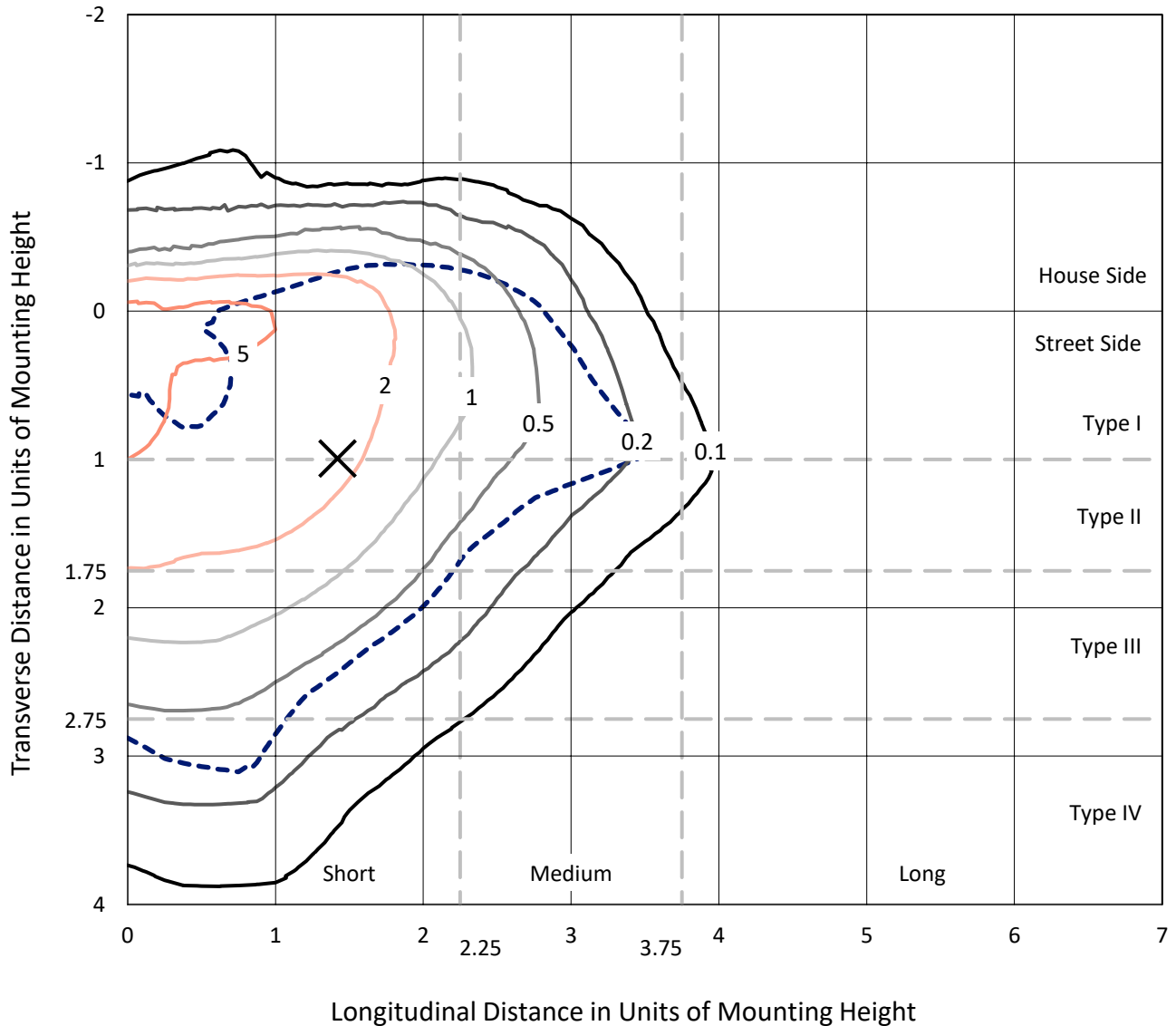
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

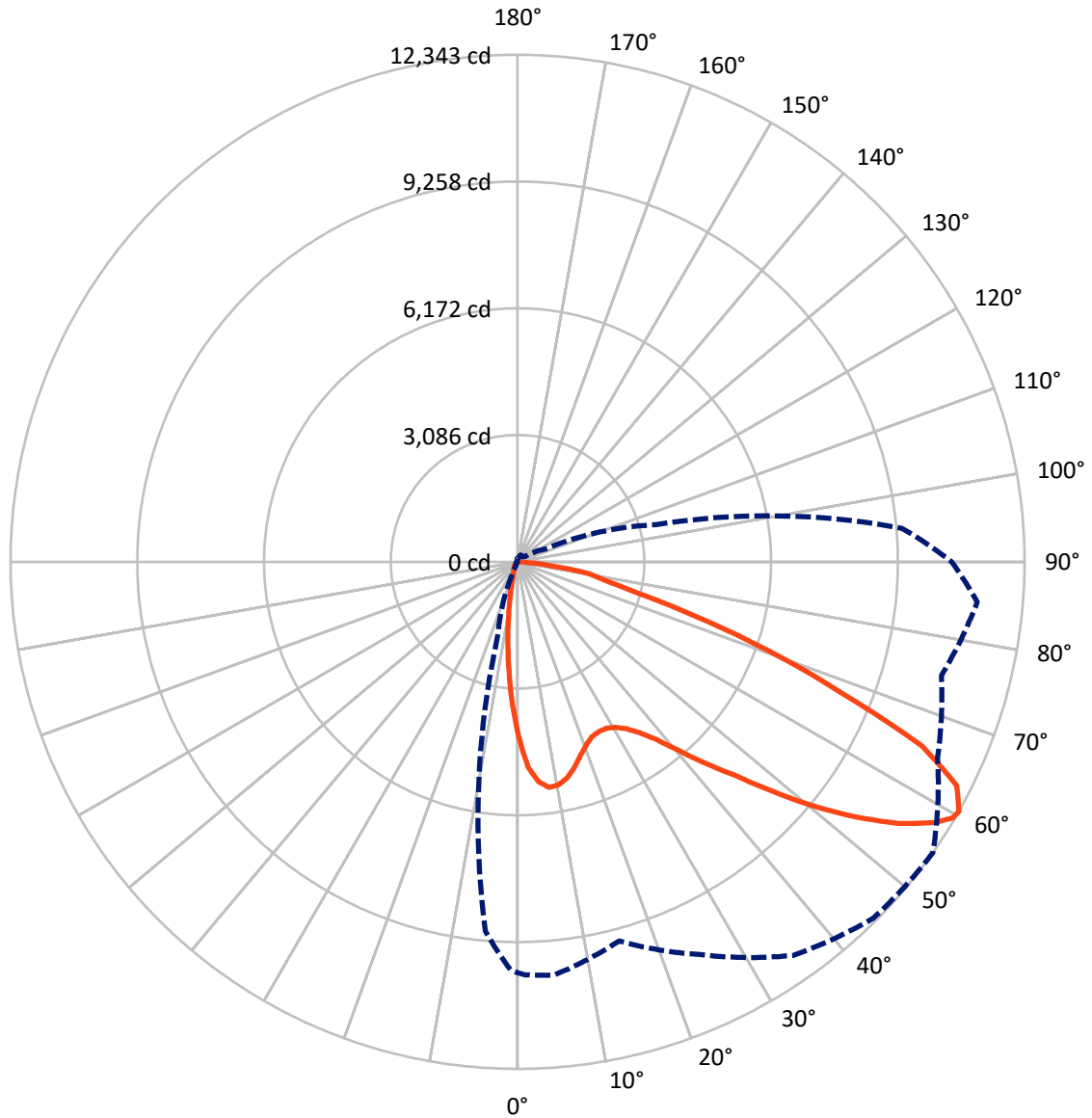
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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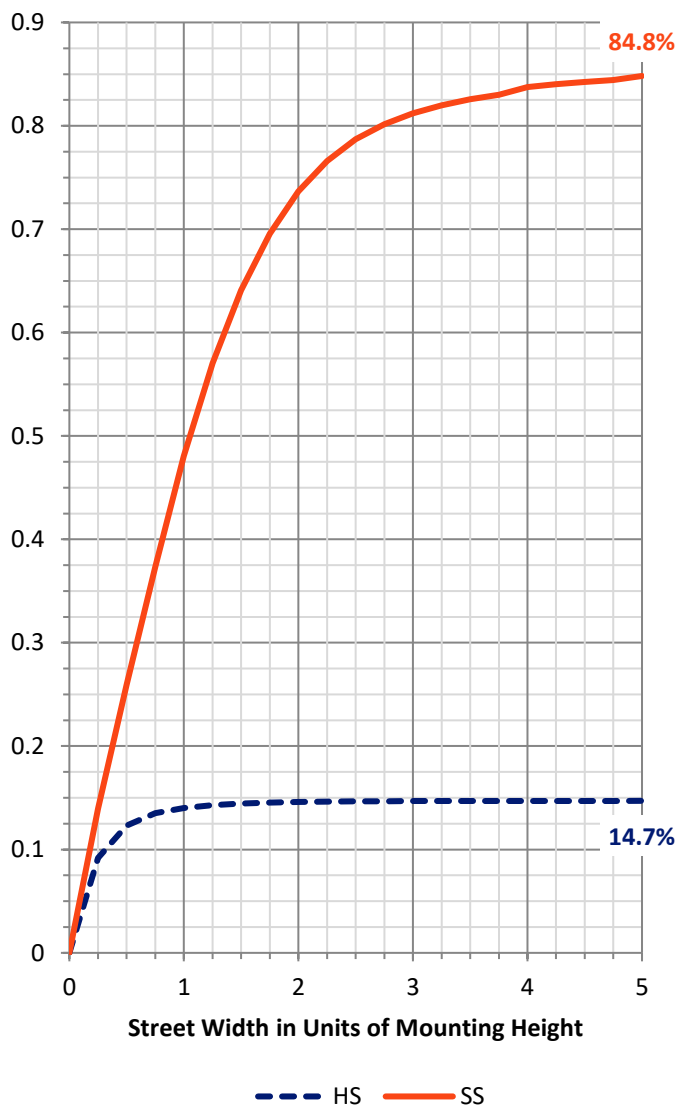
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1878.6	0.0	1878.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10779.4	0.0	10779.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	12658.0	0.0	12658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	2.5
10°-20°	625.0	4.9
20°-30°	925.1	7.3
30°-40°	1379.0	10.9
40°-50°	2019.5	16.0
50°-60°	2915.6	23.0
60°-70°	3067.0	24.2
70°-80°	1261.7	10.0
80°-90°	147.8	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°	12658.0	100.0
0°-180°	12658.0	100.0

Coefficient of Utilization

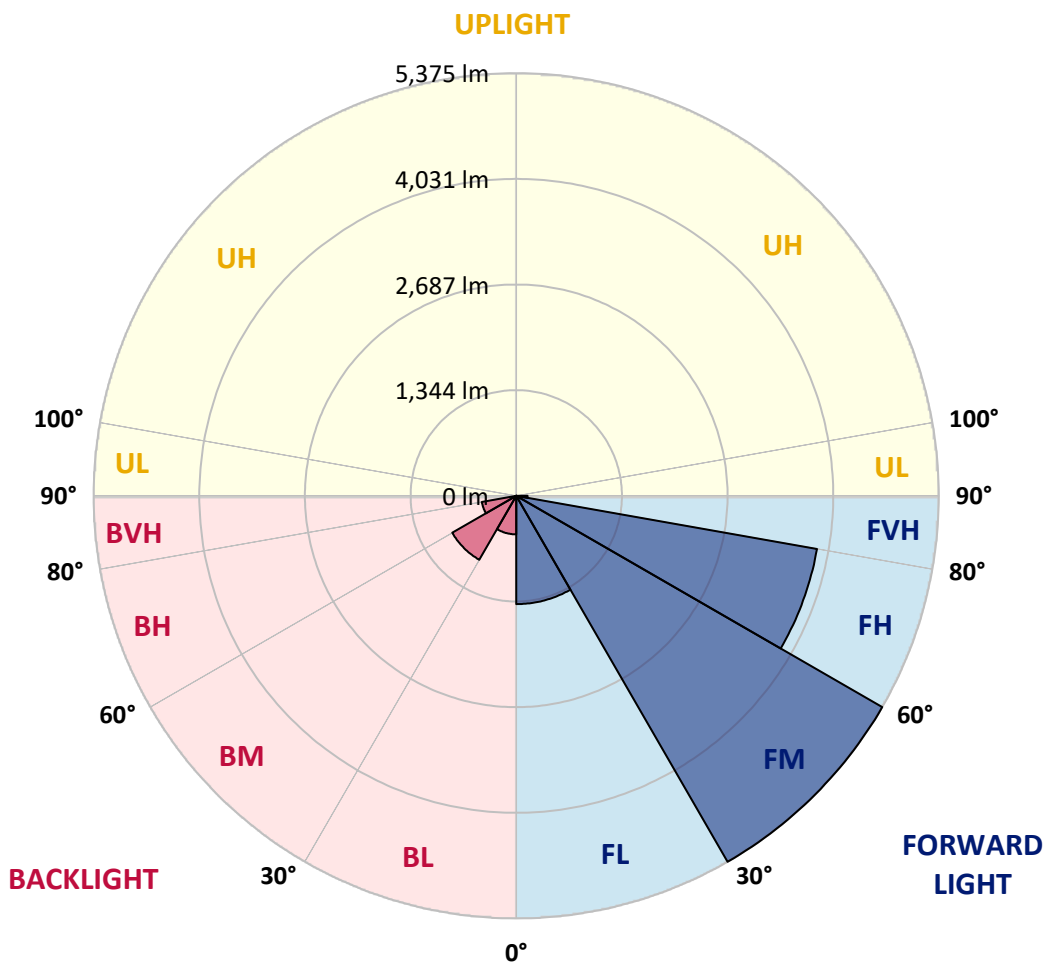


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.4	10.9			
FM (30°-60°)	5374.6	42.5			
FH (60°-80°)	3884.0	30.7			G2/5000
FVH (80°-90°)	143.4	1.1			G2/225
BL (0°-30°)	490.1	3.9	B1/500		
BM (30°-60°)	939.4	7.4	B1/1000		
BH (60°-80°)	444.6	3.5	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0
2.5°	4682.5	4674.7	4743.9	4856.9	4970.9	5030.3	5018.6	5013.8	4919.3	4850.1	4704.9
5°	4672.8	4712.7	4836.4	5142.4	5374.3	5486.3	5519.4	5380.1	5196.0	4929.0	4599.7
7.5°	4393.1	4442.8	4644.5	5122.9	5535.0	5778.6	5769.8	5546.7	5166.7	4753.6	4284.0
10°	4046.3	4104.7	4341.5	4922.2	5457.0	5778.6	5796.2	5513.6	5041.0	4511.0	4017.0
12.5°	3801.7	3870.9	4133.0	4735.1	5256.4	5573.0	5593.4	5388.8	4946.5	4417.5	3871.9
15°	3718.9	3784.2	4050.1	4640.6	5043.0	5213.5	5208.6	5187.2	4909.5	4439.9	3879.7
17.5°	3861.1	3914.8	4214.8	4683.4	4843.2	4825.7	4851.1	4954.4	4917.3	4627.9	4125.2
20°	4228.4	4283.0	4605.5	4815.0	4690.3	4579.2	4590.9	4763.4	4989.4	4981.6	4509.1
22.5°	4734.1	4826.7	5119.0	5070.2	4669.8	4426.2	4401.9	4626.0	5112.1	5388.8	5027.4
25°	5374.3	5467.8	5695.8	5477.6	4770.2	4390.2	4367.8	4584.1	5261.2	5786.4	5611.0
27.5°	5912.0	5983.2	6210.2	5874.1	4918.3	4405.8	4368.7	4589.9	5382.0	6124.5	6103.0
30°	6342.7	6395.3	6528.8	6059.2	5045.9	4474.0	4431.2	4675.7	5435.7	6289.1	6501.5
32.5°	6689.6	6778.2	6820.1	6257.0	5229.1	4602.6	4529.5	4840.3	5566.2	6492.7	6919.5
35°	7086.1	7188.4	7134.9	6446.0	5470.7	4803.3	4713.7	5107.3	5764.0	6680.8	7404.7
37.5°	7588.8	7706.8	7497.2	6644.8	5726.0	5105.3	5063.4	5482.4	6064.0	6949.7	7925.0
40°	8109.1	8177.3	7848.9	6886.4	6039.7	5544.7	5584.7	6039.7	6456.7	7272.2	8478.4
42.5°	8515.4	8579.7	8210.5	7089.0	6360.2	6066.0	6232.6	6712.0	6906.8	7602.5	8891.5
45°	8826.2	8880.8	8460.9	7310.2	6792.8	6821.1	7135.8	7404.7	7357.9	7804.2	9210.1
47.5°	9067.8	9114.6	8653.7	7547.9	7440.8	7744.7	8226.0	8340.0	7825.6	8022.4	9498.5
50°	9167.2	9180.8	8714.2	7850.9	8176.3	8921.7	9423.5	9354.3	8361.5	8265.0	9805.4
52.5°	9296.8	9293.9	8886.6	8139.3	8868.1	9973.9	10474.7	10317.8	8967.5	8628.4	10150.3
55°	9636.9	9640.7	9255.8	8548.6	9457.5	10823.5	11359.4	11245.4	9606.6	9242.2	10552.6
57.5°	10050.0	10064.5	9781.0	9026.9	10020.7	11439.3	12020.0	11976.1	10470.8	9925.2	10932.6
59°	10103.5	10132.7	10029.4	9364.1	10354.9	11628.3	12246.0	12288.9	10933.7	10375.4	11138.3
60°	10006.1	10054.8	10101.6	9554.9	10550.7	11696.5	12259.7	12343.4	11281.5	10681.3	11231.7
62.5°	9581.3	9658.2	9893.0	10142.5	10795.3	11484.1	11824.2	11999.5	11712.1	11485.0	11240.5
65°	9024.9	9064.9	9404.0	10246.7	10320.8	10492.3	10597.5	10822.5	11194.7	11794.9	10838.1
67.5°	8113.1	8230.9	8646.0	9641.7	8920.7	8718.1	8691.8	8467.7	9434.1	11056.4	9846.3
70°	6702.2	6754.9	7266.3	7904.5	6732.4	6420.7	6545.3	6461.6	7313.1	9518.0	7925.0
72.5°	5068.4	5187.2	5687.0	6300.8	4581.2	4176.8	4520.7	4489.6	5493.1	7649.3	5444.4
75°	3605.9	3682.8	4320.0	4930.9	3208.3	2718.3	2842.1	2958.0	3834.8	6039.7	3217.1
77.5°	2477.6	2543.9	3022.3	3261.0	2340.3	2241.9	2050.9	2163.0	2512.7	3583.5	1750.8
80°	1494.6	1491.7	1806.4	1864.8	1630.0	1893.1	1588.1	1783.0	1518.9	1533.6	678.1
82.5°	970.4	960.7	1104.9	1204.3	907.1	953.9	640.1	922.7	989.9	427.8	214.4
85°	434.6	453.0	531.0	700.6	397.5	211.4	130.5	283.5	421.9	215.3	0.0
87.5°	44.8	35.1	93.6	170.5	54.6	5.9	19.5	9.7	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°	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0
2.5°	4637.7	4581.2	4412.6	4254.7	4119.4	3953.7	3846.6	3678.0	3575.7	3544.5	3549.4
5°	4451.6	4288.9	3968.3	3712.1	3426.6	3263.9	3016.4	2778.7	2650.1	2602.4	2580.9
7.5°	4061.9	3887.4	3500.6	3098.3	2792.3	2506.9	2322.8	2113.2	1970.0	1852.2	1831.7
10°	3772.5	3543.5	3064.2	2631.6	2390.0	2175.6	1991.5	1782.0	1613.4	1479.0	1442.0
12.5°	3599.1	3342.9	2807.9	2445.5	2216.5	1996.3	1756.7	1514.1	1341.6	1196.4	1129.2
15°	3567.9	3270.7	2735.9	2312.0	2029.5	1763.5	1444.9	1182.8	1005.5	868.1	826.2
17.5°	3756.0	3400.3	2725.2	2172.7	1784.9	1407.8	1076.6	859.3	659.6	582.6	552.4
20°	4091.1	3629.3	2724.1	2011.0	1533.6	1084.4	756.1	560.2	479.4	442.3	424.8
22.5°	4548.1	3941.1	2775.8	1871.6	1272.5	799.9	539.8	446.2	399.5	369.3	362.5
25°	5106.3	4402.9	2902.4	1777.1	1072.7	627.4	445.3	381.9	343.0	329.3	323.5
27.5°	5602.2	4845.2	3041.8	1679.7	929.5	555.4	413.1	349.8	318.6	307.9	299.1
30°	6030.0	5246.6	3109.0	1551.1	814.6	508.6	419.0	374.1	333.2	301.1	286.4
32.5°	6386.5	5554.5	3152.8	1434.1	717.1	416.0	331.3	289.4	270.8	259.2	249.4
35°	6832.8	5887.7	3126.5	1367.9	667.4	379.0	302.0	249.4	218.2	194.9	185.1
37.5°	7300.5	6220.9	3080.7	1313.3	645.0	351.7	287.4	236.8	202.6	178.3	165.6
40°	7784.7	6529.8	3027.2	1262.7	624.5	334.2	278.7	226.1	191.9	165.6	152.0
42.5°	8228.0	6830.8	3005.7	1229.5	591.4	337.1	271.9	221.2	181.2	153.9	142.3
45°	8586.5	7116.3	3035.0	1212.0	555.4	332.2	273.8	215.3	172.4	146.1	134.4
47.5°	8969.4	7519.7	3129.5	1194.5	520.3	308.8	288.4	214.4	168.6	141.3	128.6
50°	9414.7	8036.0	3345.8	1151.6	477.4	283.5	306.9	213.4	163.6	135.5	122.8
52.5°	10008.1	8622.6	3568.8	1076.6	415.1	259.2	293.2	210.5	153.9	128.6	116.0
55°	10541.0	9240.3	3757.9	987.9	336.1	224.1	264.0	197.8	137.3	116.9	105.2
57.5°	10761.2	9589.1	3752.1	865.2	268.9	196.8	217.3	181.2	119.9	103.3	93.6
59°	10680.3	9545.2	3626.4	774.5	245.5	182.2	180.2	179.3	112.0	93.6	85.7
60°	10566.3	9385.4	3490.9	729.8	230.9	172.4	165.6	177.3	105.2	87.7	79.9
62.5°	10129.8	8722.9	3041.8	653.7	211.4	146.1	132.5	150.0	93.6	76.0	69.1
65°	9497.5	7704.8	2575.1	632.4	205.6	120.8	110.1	107.2	79.9	64.3	58.5
67.5°	8264.0	6520.0	2086.0	617.7	207.5	101.3	96.5	80.9	66.2	53.6	49.7
70°	6616.5	5083.9	1708.0	601.1	209.5	82.8	80.9	64.3	53.6	44.8	41.0
72.5°	4020.0	3013.5	1344.6	522.3	203.7	66.2	72.1	48.7	39.0	32.2	30.2
75°	2485.5	2062.6	834.0	406.3	134.4	48.7	50.7	30.2	26.3	20.4	20.4
77.5°	1440.0	1302.7	298.2	146.1	59.4	29.2	22.4	15.6	14.6	8.8	8.8
80°	597.3	478.4	103.3	49.7	32.2	13.6	4.9	0.9	0.0	0.0	0.0
82.5°	174.4	154.9	28.3	22.4	9.7	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°	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0
2.5°	3466.6	3434.4	3419.8	3469.5	3423.7	3482.2	3437.4	3456.8	3514.3	3539.6	3604.9
5°	2594.5	2561.4	2545.8	2620.9	2616.9	2654.0	2650.1	2684.2	2713.4	2648.2	2715.4
7.5°	1807.3	1784.9	1822.0	1880.4	1942.8	1922.3	1922.3	1876.5	1892.1	1882.3	1879.4
10°	1374.7	1297.7	1278.2	1276.4	1299.7	1304.6	1278.2	1215.0	1238.3	1245.1	1286.1
12.5°	1081.5	1022.0	931.5	890.5	879.8	888.5	801.9	746.3	772.6	757.0	797.0
15°	775.6	726.9	673.2	627.4	614.8	597.3	502.8	436.5	428.7	431.6	438.4
17.5°	553.4	520.3	520.3	471.6	445.3	392.7	344.9	315.7	312.7	315.7	320.6
20°	408.3	390.7	388.8	376.1	346.9	311.8	278.7	272.8	270.8	275.7	277.7
22.5°	351.7	333.2	317.6	316.6	289.4	260.1	244.5	236.8	237.7	239.7	244.5
25°	314.7	295.2	278.7	268.9	249.4	228.9	214.4	210.5	210.5	213.4	214.4
27.5°	288.4	264.0	249.4	235.8	218.2	200.7	188.1	185.1	183.1	185.1	190.0
30°	269.9	245.5	227.0	206.6	192.9	176.3	165.6	161.8	160.7	161.8	165.6
32.5°	230.9	216.3	201.7	183.1	166.6	155.9	144.2	137.3	137.3	139.3	143.2
35°	174.4	166.6	165.6	160.7	147.1	135.5	121.8	114.9	114.9	118.9	120.8
37.5°	153.9	139.3	137.3	135.5	129.6	114.0	101.3	95.4	94.5	97.4	101.3
40°	140.3	123.7	114.9	113.0	114.0	96.5	82.8	77.0	77.0	77.9	81.8
42.5°	129.6	110.1	94.5	92.6	96.5	80.9	67.3	61.4	61.4	61.4	66.2
45°	120.8	98.4	79.9	70.2	76.0	66.2	54.6	48.7	46.7	48.7	50.7
47.5°	114.9	89.7	70.2	56.5	56.5	52.6	43.8	37.0	35.1	36.0	39.0
50°	110.1	81.8	59.4	45.8	41.0	41.9	33.1	28.3	26.3	26.3	29.2
52.5°	102.3	74.1	51.6	39.0	31.2	28.3	24.4	20.4	19.5	20.4	22.4
55°	92.6	67.3	44.8	32.2	24.4	19.5	17.5	14.6	13.6	14.6	17.5
57.5°	81.8	56.5	36.0	25.4	16.6	12.7	11.7	9.7	7.8	8.8	10.7
59°	75.0	50.7	31.2	20.4	12.7	8.8	8.8	6.8	4.9	5.9	8.8
60°	72.1	46.7	26.3	17.5	10.7	6.8	6.8	4.9	2.9	3.9	6.8
62.5°	61.4	39.0	20.4	10.7	4.9	0.9	2.9	0.9	0.0	0.9	2.9
65°	51.6	31.2	13.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	42.9	23.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	34.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	23.4	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	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: P648381

CATALOG NUMBER: GALN-SA4B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0	4286.0
2.5°	3608.8	3748.1	3833.9	3995.6	4161.3	4288.9	4448.7	4591.9	4651.3	4682.5
5°	2783.6	2977.4	3142.1	3388.6	3617.6	3896.2	4178.8	4512.0	4639.7	4672.8
7.5°	1953.5	2151.3	2323.7	2609.2	2935.5	3308.7	3731.5	4154.4	4340.5	4393.1
10°	1410.8	1622.2	1832.7	2118.2	2423.1	2827.4	3267.8	3791.0	4005.4	4046.3
12.5°	890.5	1117.5	1459.5	1812.2	2134.7	2460.1	2921.0	3490.0	3726.7	3801.7
15°	516.4	685.9	944.1	1404.0	1814.1	2244.8	2747.5	3376.9	3642.0	3718.9
17.5°	345.9	404.3	581.7	933.4	1475.1	2046.1	2703.7	3469.5	3762.8	3861.1
20°	291.4	317.6	380.0	569.0	1136.1	1868.7	2715.4	3720.9	4105.7	4228.4
22.5°	256.3	280.6	320.6	409.2	793.1	1648.5	2770.9	4080.4	4577.3	4734.1
25°	226.1	250.4	285.5	339.0	532.9	1394.2	2892.7	4606.5	5201.8	5374.3
27.5°	200.7	223.1	253.3	299.1	410.2	1110.7	3000.8	5119.0	5771.8	5912.0
30°	177.3	195.8	225.0	260.1	341.0	856.4	3055.4	5567.1	6186.8	6342.7
32.5°	153.9	171.5	199.7	228.0	280.6	652.8	3017.4	5896.5	6590.2	6689.6
35°	131.5	150.0	173.4	199.7	242.6	527.1	2827.4	6266.7	7008.2	7086.1
37.5°	113.0	128.6	153.0	173.4	219.2	421.9	2597.5	6599.9	7476.8	7588.8
40°	95.4	111.1	135.5	153.9	201.7	332.2	2390.0	6970.2	7970.8	8109.1
42.5°	77.9	96.5	117.9	148.1	173.4	253.3	2138.6	7270.2	8342.0	8515.4
45°	62.3	82.8	106.2	147.1	151.0	192.9	1896.0	7504.1	8670.3	8826.2
47.5°	49.7	70.2	102.3	137.3	123.7	153.0	1757.7	7748.6	8943.1	9067.8
50°	39.9	58.5	107.2	120.8	103.3	129.6	1753.8	8021.4	9084.4	9167.2
52.5°	32.2	47.8	90.6	92.6	87.7	114.0	1859.0	8328.3	9228.6	9296.8
55°	27.2	39.9	59.4	68.2	78.9	103.3	1937.9	8800.8	9572.5	9636.9
57.5°	21.5	34.1	45.8	54.6	70.2	94.5	1948.6	9165.2	10008.1	10050.0
59°	18.5	29.2	41.0	48.7	64.3	88.6	1904.7	9187.6	10036.3	10103.5
60°	15.6	26.3	36.0	45.8	59.4	83.8	1857.0	9024.9	9931.1	10006.1
62.5°	11.7	20.4	26.3	37.0	48.7	72.1	1631.0	8456.9	9528.6	9581.3
65°	7.8	14.6	19.5	27.2	38.0	62.3	1329.0	7720.4	8907.1	9024.9
67.5°	4.9	10.7	15.6	20.4	31.2	52.6	947.0	6620.4	8037.0	8113.1
70°	2.9	6.8	11.7	16.6	24.4	41.9	562.2	5232.9	6686.7	6702.2
72.5°	2.0	4.9	7.8	11.7	19.5	38.0	272.8	3411.1	4882.2	5068.4
75°	0.9	2.9	4.9	8.8	15.6	31.2	130.5	2278.9	3552.3	3605.9
77.5°	0.0	0.9	2.9	5.9	11.7	24.4	76.0	1496.5	2422.1	2477.6
80°	0.0	0.0	2.0	4.9	8.8	15.6	45.8	882.8	1467.3	1494.6
82.5°	0.0	0.0	0.9	3.9	5.9	11.7	23.4	387.7	960.7	970.4
85°	0.0	0.0	0.9	3.9	4.9	7.8	8.8	52.6	426.7	434.6
87.5°	0.0	0.0	0.9	4.9	4.9	4.9	4.9	2.9	36.0	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)