

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: P647885

Luminaire Tested: **GALN-SA4A-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10549.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

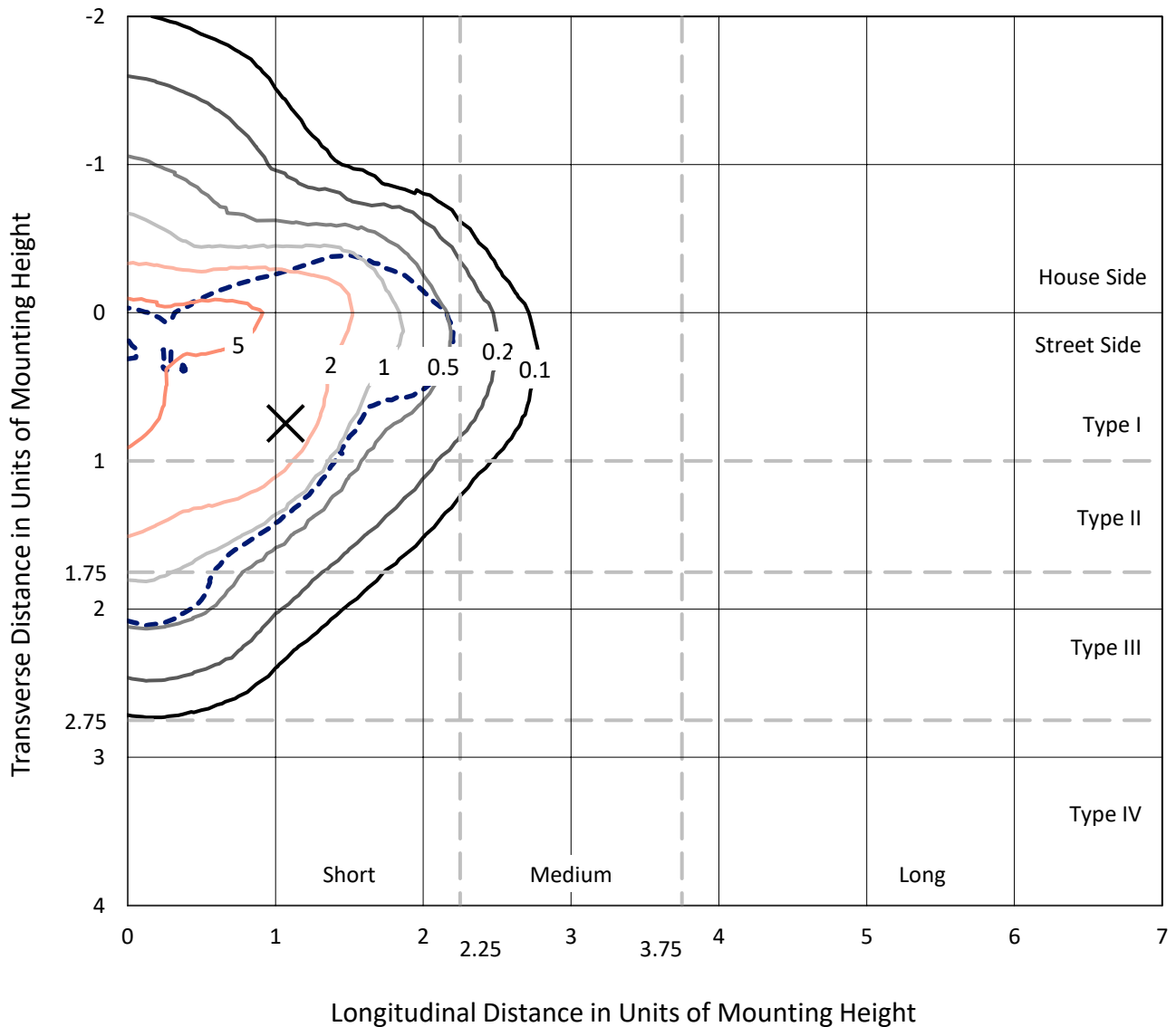
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

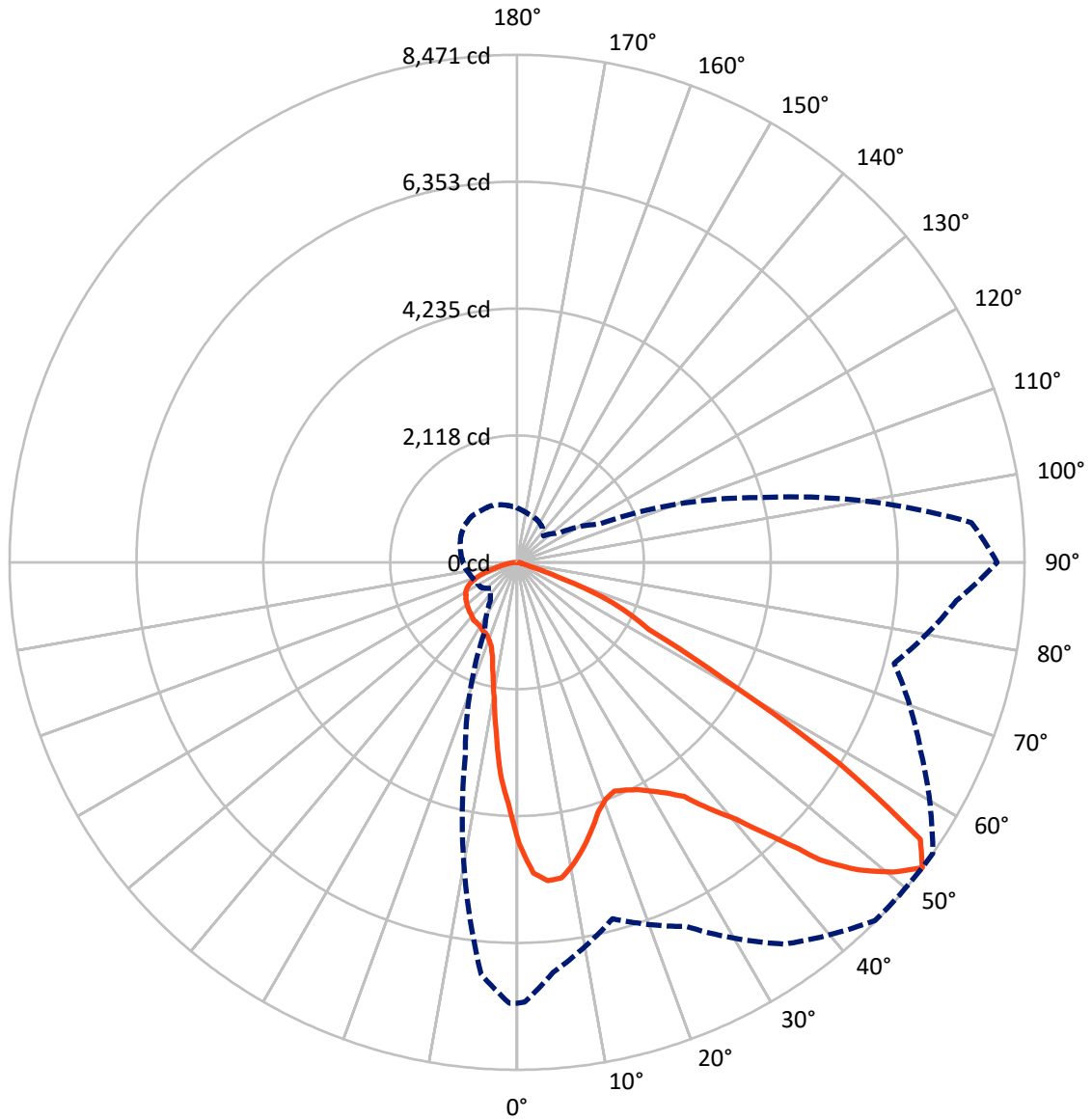
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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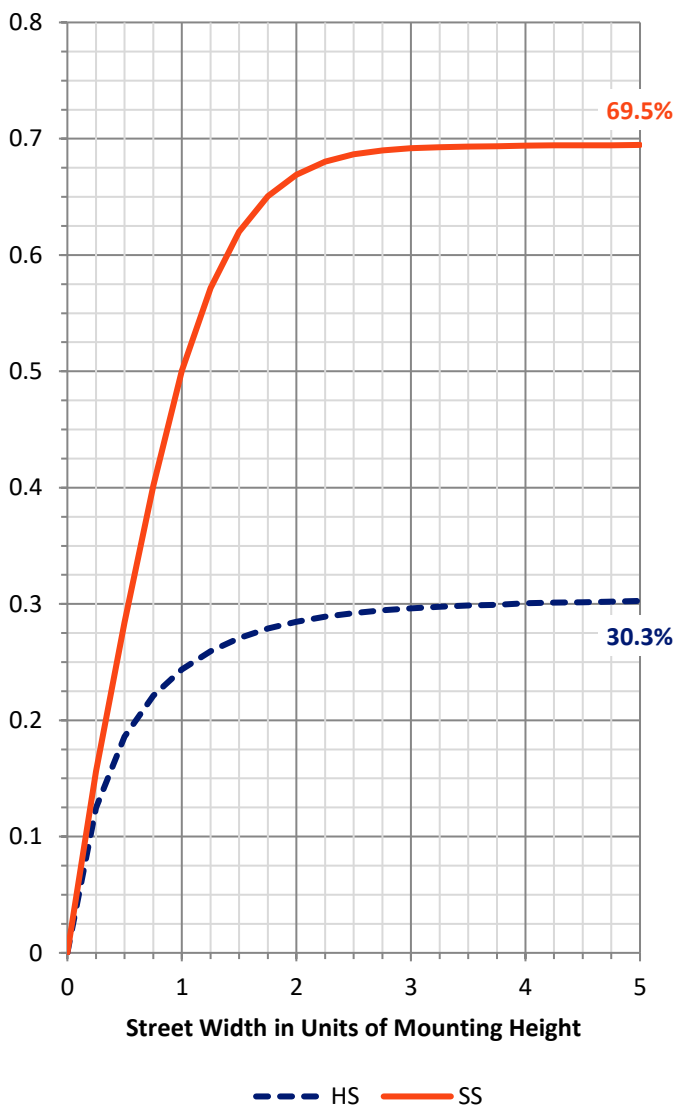
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3218.1	0.0	3218.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7331.2	0.0	7331.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	10549.4	0.0	10549.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	3.4
10°-20°	775.2	7.3
20°-30°	1175.4	11.1
30°-40°	1698.3	16.1
40°-50°	2269.4	21.5
50°-60°	2533.1	24.0
60°-70°	1389.5	13.2
70°-80°	300.4	2.8
80°-90°	48.6	0.5
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°	10549.4	100.0
0°-180°	10549.4	100.0

Coefficient of Utilization

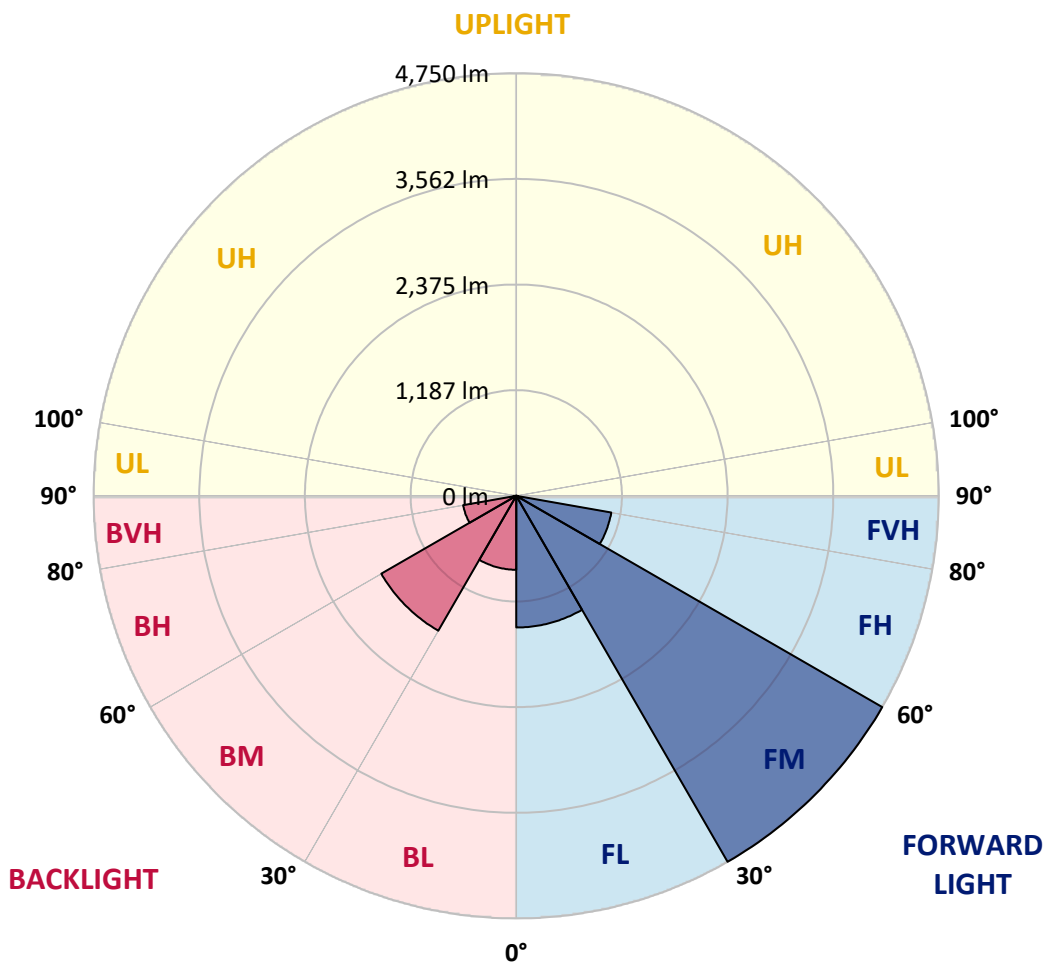


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.2	14.0			
FM (30°-60°)	4749.8	45.0			
FH (60°-80°)	1084.2	10.3			G1/1800
FVH (80°-90°)	18.0	0.2			G1/100
BL (0°-30°)	830.9	7.9	B2/1000		
BM (30°-60°)	1750.9	16.6	B2/2500		
BH (60°-80°)	605.7	5.7	B2/1000		G2/1000
BVH (80°-90°)	30.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8
2.5°	4938.5	4910.7	4935.3	5052.4	5120.2	5166.4	5195.7	5191.1	5080.1	4972.3	4972.3
5°	4793.6	4758.2	4809.0	5074.0	5340.5	5363.6	5402.1	5338.9	5175.6	4978.5	4732.0
7.5°	4374.6	4400.9	4485.6	4833.7	5180.2	5354.3	5400.5	5320.4	5055.5	4687.4	4325.4
10°	4012.6	4074.3	4269.9	4645.8	4964.6	5191.1	5241.9	5129.4	4920.0	4468.6	4145.1
12.5°	3887.9	3849.4	4066.6	4442.4	4747.4	4869.1	4892.2	4899.9	4758.2	4357.7	3963.4
15°	3872.5	3897.1	4066.6	4351.5	4539.4	4545.6	4584.2	4644.2	4662.7	4433.2	4048.1
17.5°	4094.3	4065.0	4239.1	4465.5	4376.2	4286.8	4296.1	4382.4	4534.8	4497.9	4314.6
20°	4422.4	4488.6	4625.7	4602.6	4362.3	4135.9	4137.5	4219.0	4519.5	4765.9	4685.8
22.5°	4967.7	5032.4	5134.1	4855.2	4362.3	4091.3	4038.9	4149.7	4618.1	5084.7	5104.8
25°	5465.3	5583.8	5611.6	5283.4	4581.1	4132.8	4098.9	4208.3	4716.6	5395.9	5585.4
27.5°	5918.1	5961.2	6082.9	5559.2	4702.8	4160.5	4157.5	4297.7	4841.4	5551.5	6015.2
30°	6275.4	6270.8	6340.2	5733.3	4896.8	4316.1	4166.7	4431.6	5004.6	5808.8	6412.5
32.5°	6518.9	6571.2	6717.6	5975.1	4978.5	4464.0	4346.9	4588.8	5203.3	5930.4	6692.9
35°	6947.1	7037.9	6853.1	6109.1	5237.3	4610.3	4473.2	4802.8	5301.9	6062.9	7036.4
37.5°	7350.6	7281.4	7093.4	6181.5	5405.1	4881.5	4753.6	5217.2	5608.5	6350.9	7264.4
40°	7609.4	7607.9	7273.6	6240.0	5523.8	5295.8	5288.1	5637.8	5984.3	6532.7	7520.1
42.5°	7721.9	7829.7	7347.6	6233.9	5773.3	5798.0	5953.5	6266.2	6250.8	6569.7	7513.9
44°	7875.9	7940.6	7475.4	6247.7	5939.7	6136.8	6503.4	6702.2	6483.4	6549.6	7506.2
45°	7869.8	7874.4	7293.6	6266.2	6081.4	6420.3	6748.4	7084.2	6688.3	6506.5	7607.9
47.5°	7689.5	7637.1	7139.6	6129.2	6523.5	7168.9	7472.3	7675.7	6940.9	6414.1	7481.6
50°	7333.7	7273.6	6765.3	6070.6	6615.9	7634.1	8053.1	8127.0	7170.4	6323.2	7356.8
52.5°	7358.3	7341.4	6871.6	6158.4	6708.3	7780.4	8452.0	8470.5	7430.7	6514.2	7358.3
55°	7798.9	7740.3	7176.6	6267.8	6640.5	7609.4	8197.9	8165.5	7343.0	6398.7	7493.9
57.5°	7136.5	7175.0	6754.5	5834.9	5811.8	6186.1	6444.9	6364.8	6127.6	5774.9	6971.7
60°	5757.9	5867.3	5907.3	4879.9	4385.4	4192.9	4115.8	3974.1	4014.2	4744.4	6124.5
62.5°	4938.5	4932.3	5183.4	4424.0	2872.8	2470.8	2433.8	2466.1	2928.3	4670.4	5998.2
65°	3915.6	4020.4	4097.4	3749.2	2273.6	1834.6	1833.0	2037.9	2533.9	3903.3	4842.9
67.5°	2486.2	2623.3	2718.7	2398.3	1520.4	1306.2	1270.8	1517.3	1756.0	2560.1	2915.9
70°	1401.7	1466.4	1509.5	1383.2	967.3	677.8	637.7	696.2	1061.3	1657.5	1728.3
72.5°	540.7	569.9	628.4	633.1	365.0	218.8	177.1	212.6	446.7	656.2	625.4
75°	83.2	89.3	126.3	151.0	104.8	80.1	84.7	87.8	124.7	169.4	141.7
77.5°	40.0	40.0	38.5	44.7	52.4	57.0	61.6	67.8	73.9	81.7	78.5
80°	26.2	26.2	26.2	30.8	38.5	46.2	52.4	55.4	58.6	64.7	61.6
82.5°	16.9	16.9	16.9	23.1	30.8	38.5	41.6	49.3	55.4	64.7	60.1
85°	9.2	9.2	9.2	15.4	23.1	32.3	30.8	24.7	13.9	1.6	3.1
87.5°	3.1	3.1	3.1	3.1	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°	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8
2.5°	4842.9	4772.1	4765.9	4621.1	4491.8	4428.6	4377.8	4236.0	4266.8	4185.2	4183.6
5°	4608.8	4464.0	4229.8	4037.3	3844.8	3806.2	3638.4	3492.0	3496.6	3391.9	3410.4
7.5°	4188.3	4088.1	3803.2	3501.3	3245.5	3063.8	2905.2	2809.6	2688.0	2646.4	2624.8
10°	3921.8	3798.6	3478.2	3099.2	2812.7	2715.7	2563.2	2478.4	2353.7	2292.1	2248.9
12.5°	3804.7	3624.5	3224.0	2838.9	2647.9	2547.8	2418.4	2264.4	2116.4	2059.4	1980.9
15°	3817.0	3601.4	3150.1	2734.2	2504.7	2310.6	2195.1	2024.1	1873.1	1772.9	1715.9
17.5°	4003.4	3741.6	3183.9	2654.1	2324.4	2081.1	1854.6	1669.7	1549.6	1474.2	1455.7
20°	4444.0	4088.1	3240.9	2524.7	2144.2	1840.8	1561.9	1369.4	1277.0	1275.4	1277.0
22.5°	4810.6	4457.9	3356.5	2447.7	1964.0	1532.6	1255.4	1193.8	1175.3	1213.8	1218.4
25°	5305.1	4873.7	3555.2	2407.6	1797.6	1306.2	1135.3	1112.2	1110.6	1159.9	1161.4
27.5°	5811.8	5237.3	3673.8	2290.5	1628.2	1189.1	1062.8	1058.2	1082.9	1135.3	1130.7
30°	6156.9	5542.2	3887.9	2150.4	1428.0	1085.9	1033.6	1039.7	1073.6	1113.7	1119.8
32.5°	6558.9	5842.6	3943.3	2073.3	1304.7	999.7	962.7	976.6	1019.7	1082.9	1116.8
35°	7019.4	6055.2	4028.1	1968.6	1258.5	933.5	915.0	930.4	982.7	1024.3	1061.3
37.5°	7359.9	6431.0	4043.5	1887.0	1207.6	896.5	867.3	918.1	948.8	1007.4	1025.9
40°	7612.5	6703.7	4083.5	1836.1	1167.6	848.8	848.8	882.6	924.3	978.1	1015.1
42.5°	7774.3	6902.4	4112.8	1789.9	1090.6	834.9	827.2	861.1	916.5	968.9	985.9
44°	7872.8	6987.1	4083.5	1746.8	1069.0	817.9	817.9	847.2	890.3	952.0	971.9
45°	7897.5	7093.4	4018.8	1745.2	1042.8	797.9	794.8	850.3	879.5	955.0	967.3
47.5°	7992.9	7224.3	4026.5	1696.0	979.7	750.2	804.1	828.7	854.9	921.1	962.7
50°	7989.9	7305.9	4009.6	1623.6	933.5	696.2	785.6	813.3	839.5	907.3	924.3
52.5°	8011.5	7611.0	4165.2	1508.1	850.3	626.9	724.0	785.6	817.9	874.9	910.4
55°	8000.7	7785.1	4319.2	1421.8	733.2	585.4	671.6	744.0	790.2	850.3	867.3
57.5°	7307.5	6880.8	3997.3	1260.0	606.9	536.0	597.7	700.9	759.4	821.1	842.6
60°	5970.5	5303.5	3296.4	927.3	499.1	492.9	556.1	687.0	711.7	765.5	802.5
62.5°	5517.6	4651.9	2614.0	708.5	426.7	451.3	512.9	620.8	659.3	725.5	759.4
65°	4317.6	3090.0	1618.9	479.0	375.8	405.1	463.6	543.7	606.9	668.5	708.5
67.5°	2557.0	1688.2	801.0	335.8	328.1	358.9	419.0	479.0	551.5	619.2	639.2
70°	1392.5	830.3	341.9	255.7	278.8	306.5	365.0	406.7	476.0	528.4	562.3
72.5°	446.7	252.6	171.0	189.5	212.6	244.9	280.3	331.2	380.5	411.3	439.0
75°	107.8	106.3	121.7	132.5	154.0	178.7	208.0	234.1	272.6	301.9	326.6
77.5°	75.5	81.7	94.0	109.4	117.1	126.3	144.8	164.8	181.7	203.3	218.8
80°	58.6	63.2	72.4	80.1	87.8	95.5	104.8	112.4	123.2	137.1	144.8
82.5°	55.4	58.6	67.8	72.4	69.3	67.8	73.9	77.0	78.5	83.2	87.8
85°	4.6	0.0	3.1	10.8	26.2	38.5	41.6	41.6	40.0	43.1	43.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.2	4.6
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°	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8
2.5°	4165.2	4112.8	4132.8	4157.5	4122.0	4040.4	4062.0	4052.7	4135.9	4129.7	4212.9
5°	3492.0	3410.4	3419.6	3539.8	3501.3	3542.8	3459.7	3448.9	3464.3	3472.0	3485.8
7.5°	2672.5	2661.7	2754.2	2855.8	2903.6	2854.3	2772.7	2754.2	2737.2	2703.4	2780.4
10°	2181.1	2184.3	2178.1	2255.1	2309.0	2298.3	2248.9	2242.7	2210.4	2198.1	2241.3
12.5°	1947.0	1905.4	1885.4	1860.8	1902.4	1930.1	1908.5	1893.1	1894.6	1910.1	1916.2
15°	1720.6	1694.4	1651.3	1623.6	1643.6	1629.7	1622.0	1652.8	1645.1	1642.0	1679.0
17.5°	1466.4	1488.0	1484.9	1454.1	1480.3	1469.5	1468.0	1446.4	1417.2	1395.5	1407.9
20°	1298.5	1338.6	1369.4	1371.0	1384.8	1383.2	1360.1	1293.9	1272.4	1267.8	1270.8
22.5°	1238.5	1260.0	1297.0	1349.3	1349.3	1324.7	1297.0	1220.0	1199.9	1178.4	1169.2
25°	1190.7	1232.3	1280.0	1286.2	1310.8	1287.7	1243.1	1204.6	1163.0	1133.7	1133.7
27.5°	1166.0	1212.2	1247.7	1258.5	1292.3	1273.9	1227.7	1178.4	1129.1	1127.5	1101.4
30°	1155.3	1198.4	1221.5	1247.7	1263.1	1233.9	1220.0	1167.6	1118.3	1106.0	1062.8
32.5°	1122.9	1184.5	1227.7	1221.5	1233.9	1221.5	1201.5	1158.4	1102.9	1075.2	1070.6
35°	1085.9	1147.6	1193.8	1226.1	1233.9	1207.6	1195.3	1136.8	1061.3	1047.4	999.7
37.5°	1065.9	1102.9	1159.9	1212.2	1223.0	1209.2	1167.6	1107.6	1032.1	1016.6	975.1
40°	1041.3	1089.1	1133.7	1176.8	1209.2	1175.3	1127.5	1069.0	1035.1	988.9	976.6
42.5°	1022.8	1076.7	1113.7	1161.4	1198.4	1153.8	1098.3	1058.2	1010.5	979.7	944.2
44°	1016.6	1065.9	1090.6	1149.1	1179.9	1146.0	1099.8	1058.2	1002.8	975.1	944.2
45°	995.1	1062.8	1089.1	1141.4	1167.6	1139.9	1081.3	1039.7	999.7	965.8	933.5
47.5°	973.5	1019.7	1064.4	1106.0	1124.5	1115.2	1065.9	1015.1	967.3	947.4	916.5
50°	967.3	1013.6	1055.2	1093.7	1115.2	1096.7	1052.0	1002.8	947.4	915.0	888.8
52.5°	936.5	993.5	1039.7	1052.0	1079.8	1069.0	1035.1	981.2	928.9	901.2	879.5
55°	891.8	952.0	1015.1	1030.5	1070.6	1053.6	1002.8	952.0	907.3	865.7	838.0
57.5°	874.9	933.5	995.1	1015.1	1039.7	1012.0	999.7	945.8	874.9	853.4	810.2
60°	831.8	905.8	956.6	1002.8	1004.4	996.6	975.1	913.4	854.9	814.9	784.0
62.5°	797.9	867.3	907.3	950.4	976.6	955.0	933.5	876.5	813.3	768.7	733.2
65°	748.6	811.7	845.6	871.9	901.2	898.0	861.1	819.5	753.2	717.8	684.0
67.5°	673.1	728.6	774.8	799.4	817.9	813.3	785.6	756.3	688.6	653.1	628.4
70°	582.2	639.2	668.5	682.4	700.9	710.1	688.6	674.7	614.6	568.4	545.3
72.5°	468.2	505.3	548.3	560.7	568.4	574.6	574.6	562.3	500.7	482.2	442.1
75°	345.1	374.3	406.7	406.7	420.5	422.0	425.2	417.4	371.2	346.6	337.3
77.5°	234.1	255.7	281.9	292.7	301.9	300.4	298.8	277.3	252.6	241.9	232.6
80°	152.5	174.1	186.4	200.2	209.5	208.0	211.0	195.6	184.9	166.4	169.4
82.5°	90.9	107.8	120.1	137.1	137.1	141.7	141.7	137.1	126.3	117.1	117.1
85°	43.1	57.0	64.7	75.5	81.7	83.2	73.9	63.2	52.4	47.8	52.4
87.5°	7.7	10.8	15.4	13.9	16.9	15.4	15.4	15.4	15.4	12.3	13.9
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: P647885

CATALOG NUMBER: GALN-SA4A-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8	4705.8
2.5°	4182.1	4259.1	4313.0	4402.3	4556.4	4679.7	4806.0	4899.9	4910.7	4938.5
5°	3536.7	3578.3	3715.3	3894.1	4020.4	4228.3	4362.3	4605.7	4696.6	4793.6
7.5°	2761.9	2829.7	3013.0	3133.1	3410.4	3670.7	3940.3	4240.6	4360.8	4374.6
10°	2329.0	2427.6	2552.4	2745.0	2895.9	3185.5	3521.3	3855.6	3989.5	4012.6
12.5°	2045.6	2171.9	2338.3	2476.9	2621.7	2874.3	3196.3	3609.1	3783.1	3887.9
15°	1772.9	1903.9	2087.2	2279.8	2407.6	2709.5	3088.5	3553.6	3780.1	3872.5
17.5°	1492.6	1614.3	1765.3	1973.2	2230.5	2569.3	3071.5	3738.5	3986.5	4094.3
20°	1252.3	1320.1	1495.7	1709.8	2031.7	2426.0	3077.7	4011.2	4374.6	4422.4
22.5°	1158.4	1173.8	1243.1	1440.3	1793.0	2279.8	3187.0	4397.7	4810.6	4967.7
25°	1085.9	1082.9	1101.4	1233.9	1618.9	2222.8	3294.9	4753.6	5294.3	5465.3
27.5°	1045.9	1015.1	1016.6	1141.4	1495.7	2130.3	3433.5	5161.8	5842.6	5918.1
30°	1025.9	1019.7	1001.2	1052.0	1361.7	1991.7	3456.6	5563.8	6166.1	6275.4
32.5°	1013.6	953.5	930.4	948.8	1235.3	1840.8	3542.8	5828.7	6566.6	6518.9
35°	952.0	898.0	882.6	901.2	1146.0	1756.0	3485.8	6059.8	6867.0	6947.1
37.5°	928.9	881.1	850.3	834.9	1062.8	1685.2	3456.6	6415.7	7158.1	7350.6
40°	907.3	856.4	819.5	804.1	998.2	1591.2	3447.3	6689.8	7493.9	7609.4
42.5°	882.6	850.3	808.7	781.0	919.6	1497.3	3341.1	6774.5	7597.1	7721.9
44°	874.9	825.7	782.5	773.3	888.8	1449.5	3319.5	6851.6	7686.5	7875.9
45°	867.3	821.1	771.7	759.4	878.0	1423.3	3290.2	6870.0	7834.3	7869.8
47.5°	845.6	816.4	768.7	734.8	854.9	1366.3	3202.4	6765.3	7683.3	7689.5
50°	828.7	794.8	745.6	679.3	824.1	1318.6	3242.5	6726.8	7319.9	7333.7
52.5°	810.2	759.4	731.7	617.7	773.3	1278.5	3327.2	6900.9	7361.5	7358.3
55°	788.6	733.2	665.5	565.3	688.6	1227.7	3532.0	7244.4	7746.5	7798.9
57.5°	754.8	707.0	610.0	519.1	591.5	1130.7	3465.9	6586.6	7127.3	7136.5
60°	710.1	665.5	553.0	483.7	485.2	891.8	3099.2	5132.5	5623.9	5757.9
62.5°	667.0	642.4	505.3	432.8	412.8	710.1	2620.2	4265.3	4827.5	4938.5
65°	616.1	556.1	463.6	394.3	354.3	497.5	1856.2	3187.0	3766.2	3915.6
67.5°	551.5	486.8	408.2	346.6	303.5	332.7	958.1	1811.5	2398.3	2486.2
70°	482.2	422.0	343.5	292.7	244.9	229.5	422.0	864.1	1310.8	1401.7
72.5°	395.9	340.4	274.2	231.1	183.3	158.6	141.7	231.1	465.2	540.7
75°	286.5	248.0	206.4	164.8	129.4	101.6	83.2	69.3	77.0	83.2
77.5°	211.0	180.2	152.5	117.1	90.9	72.4	57.0	43.1	41.6	40.0
80°	164.8	146.3	121.7	94.0	70.9	53.9	40.0	29.3	26.2	26.2
82.5°	129.4	120.1	100.1	77.0	58.6	43.1	29.3	20.0	16.9	16.9
85°	49.3	49.3	72.4	63.2	44.7	30.8	20.0	10.8	9.2	9.2
87.5°	12.3	12.3	12.3	12.3	10.8	9.2	9.2	4.6	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)