

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: P528314

Luminaire Tested: **GALN-SA3B-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528314
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-SA3B-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 9300 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

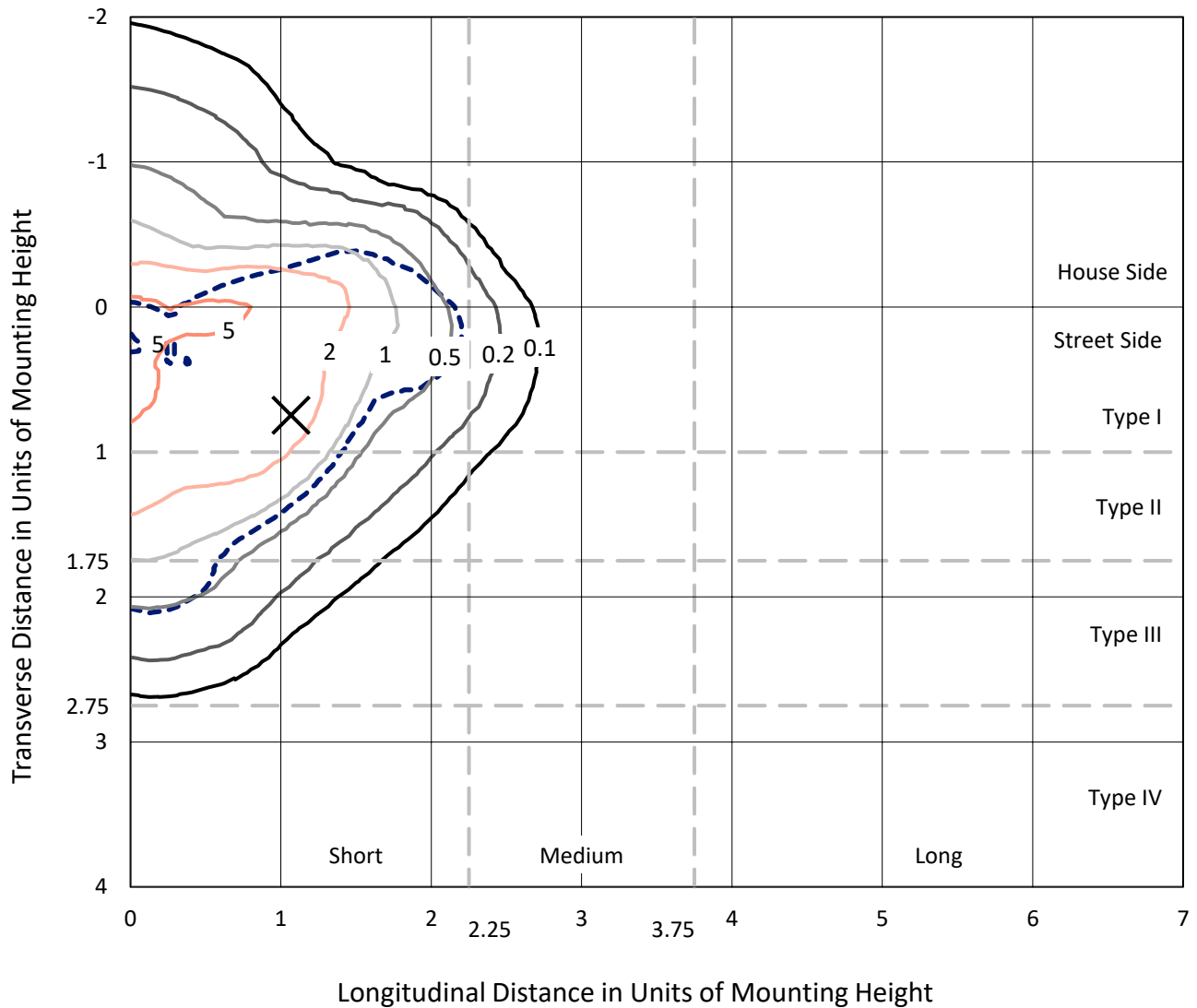
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

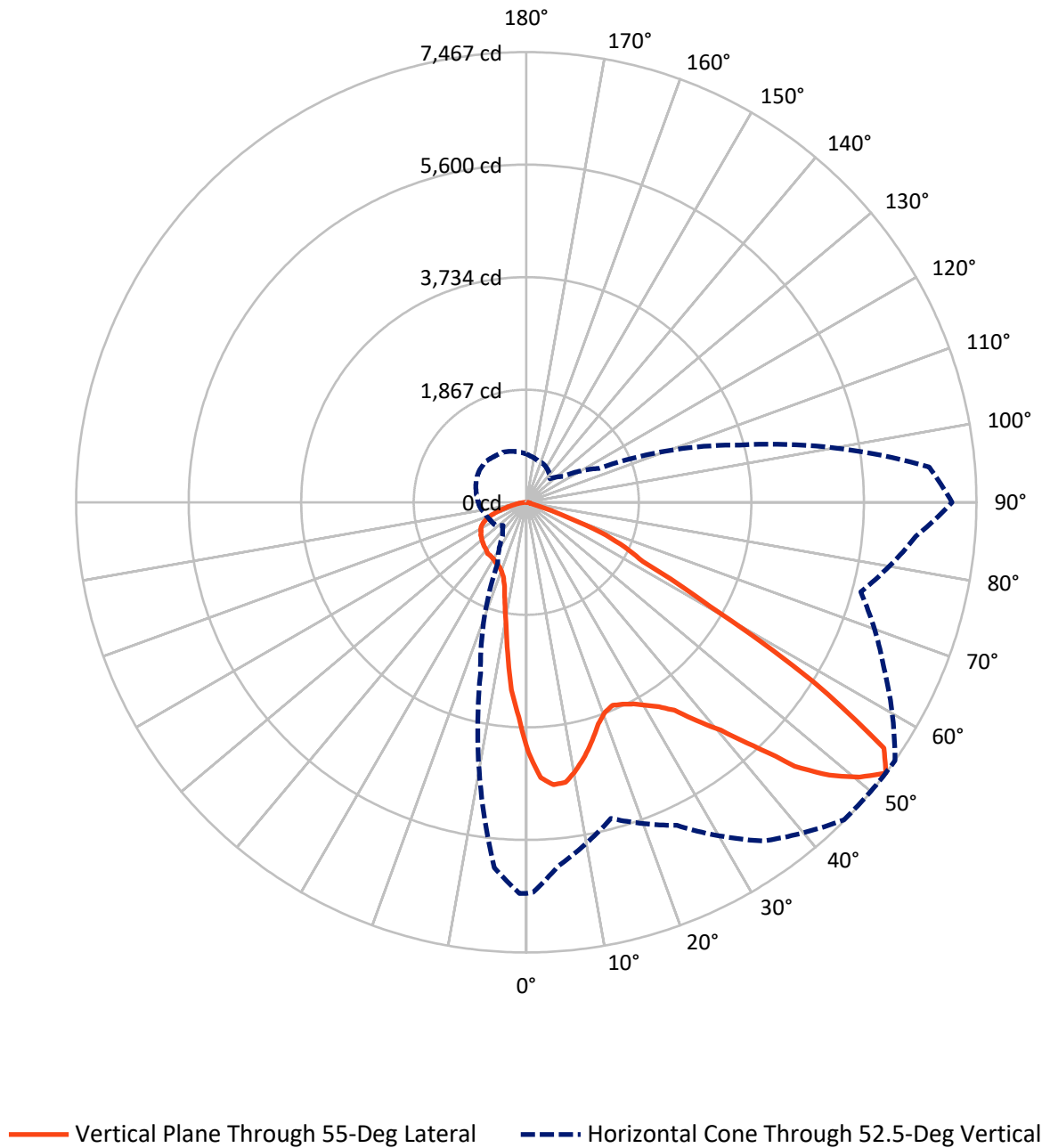
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2837.0	0.0	2837.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6463.0	0.0	6463.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	9300.0	0.0	9300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	3.4
10°-20°	683.4	7.3
20°-30°	1036.2	11.1
30°-40°	1497.1	16.1
40°-50°	2000.6	21.5
50°-60°	2233.1	24.0
60°-70°	1225.0	13.2
70°-80°	264.8	2.8
80°-90°	42.8	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°	9300.0	100.0
0°-180°	9300.0	100.0

Coefficient of Utilization



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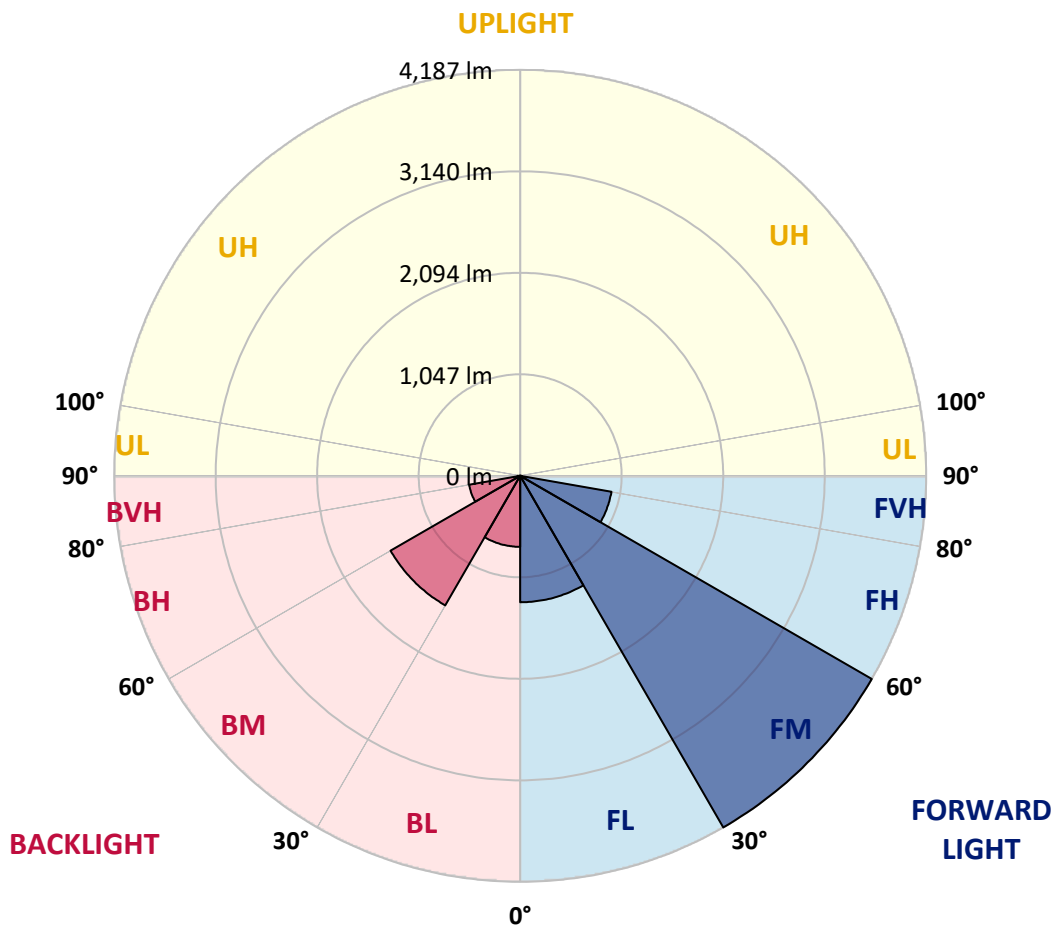
CATALOG NUMBER: GALN-SA3B-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.0	14.0			
FM (30°-60°)	4187.3	45.0			
FH (60°-80°)	955.8	10.3			G1/1800
FVH (80°-90°)	15.9	0.2			G1/100
BL (0°-30°)	732.5	7.9	B2/1000		
BM (30°-60°)	1543.6	16.6	B2/2500		
BH (60°-80°)	534.0	5.7	B2/1000		G2/1000
BVH (80°-90°)	27.0	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°	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5
2.5°	4353.6	4329.1	4350.9	4454.1	4513.8	4554.5	4580.3	4576.3	4478.5	4383.4	4383.4
5°	4225.9	4194.7	4239.5	4473.1	4708.0	4728.4	4762.3	4706.6	4562.7	4388.9	4171.6
7.5°	3856.6	3879.6	3954.3	4261.2	4566.8	4720.2	4761.0	4690.3	4456.8	4132.2	3813.1
10°	3537.4	3591.8	3764.2	4095.6	4376.7	4576.3	4621.1	4522.0	4337.3	3939.4	3654.2
12.5°	3427.5	3393.5	3585.0	3916.3	4185.2	4292.5	4312.8	4319.6	4194.7	3841.6	3494.0
15°	3413.9	3435.6	3585.0	3836.2	4001.9	4007.3	4041.2	4094.2	4110.5	3908.2	3568.7
17.5°	3609.4	3583.6	3737.1	3936.7	3857.9	3779.2	3787.3	3863.4	3997.8	3965.2	3803.6
20°	3898.7	3957.0	4077.9	4057.5	3845.7	3646.1	3647.4	3719.4	3984.2	4201.5	4130.9
22.5°	4379.4	4436.4	4526.0	4280.2	3845.7	3606.7	3560.5	3658.3	4071.1	4482.6	4500.2
25°	4818.0	4922.5	4947.0	4657.7	4038.5	3643.4	3613.5	3709.9	4158.0	4756.9	4923.9
27.5°	5217.2	5255.2	5362.5	4900.8	4145.8	3667.8	3665.1	3788.7	4268.0	4894.0	5302.8
30°	5532.3	5528.2	5589.3	5054.3	4316.9	3805.0	3673.2	3906.8	4412.0	5120.8	5653.1
32.5°	5746.8	5793.0	5922.0	5267.5	4388.9	3935.3	3832.1	4045.3	4587.1	5228.1	5900.3
35°	6124.3	6204.4	6041.5	5385.6	4617.0	4064.3	3943.5	4234.1	4674.0	5344.9	6203.1
37.5°	6480.1	6419.0	6253.3	5449.4	4765.0	4303.3	4190.6	4599.4	4944.3	5598.8	6404.1
40°	6708.2	6706.9	6412.2	5501.0	4869.6	4668.6	4661.8	4970.1	5275.6	5759.0	6629.5
42.5°	6807.4	6902.4	6477.4	5495.6	5089.6	5111.3	5248.5	5524.1	5510.5	5791.6	6624.1
44°	6943.2	7000.2	6590.1	5507.8	5236.2	5410.0	5733.2	5908.4	5715.6	5774.0	6617.3
45°	6937.7	6941.8	6429.9	5524.1	5361.2	5659.9	5949.2	6245.2	5896.2	5736.0	6706.9
47.5°	6778.9	6732.7	6294.1	5403.3	5750.9	6319.9	6587.4	6766.6	6118.9	5654.5	6595.5
50°	6465.2	6412.2	5964.1	5351.7	5832.4	6730.0	7099.3	7164.5	6321.2	5574.4	6485.5
52.5°	6486.9	6472.0	6057.8	5429.1	5913.8	6859.0	7451.0	7467.3	6550.7	5742.7	6486.9
55°	6875.3	6823.7	6326.7	5525.5	5854.1	6708.2	7227.0	7198.5	6473.3	5640.9	6606.4
57.5°	6291.4	6325.3	5954.6	5143.9	5123.5	5453.5	5681.6	5611.0	5401.9	5090.9	6146.1
60°	5076.0	5172.4	5207.7	4302.0	3866.1	3696.3	3628.4	3503.5	3538.8	4182.5	5399.2
62.5°	4353.6	4348.1	4569.5	3900.0	2532.6	2178.1	2145.6	2174.1	2581.5	4117.3	5287.8
65°	3451.9	3544.2	3612.1	3305.2	2004.3	1617.3	1616.0	1796.6	2233.8	3441.0	4269.4
67.5°	2191.7	2312.6	2396.8	2114.3	1340.3	1151.5	1120.3	1337.6	1548.1	2256.9	2570.6
70°	1235.7	1292.8	1330.8	1219.4	852.8	597.5	562.2	613.8	935.6	1461.1	1523.6
72.5°	476.6	502.4	554.0	558.1	321.8	192.8	156.2	187.4	393.8	578.5	551.3
75°	73.3	78.8	111.4	133.1	92.3	70.6	74.7	77.4	110.0	149.4	124.9
77.5°	35.3	35.3	33.9	39.4	46.2	50.2	54.3	59.7	65.2	72.0	69.3
80°	23.1	23.1	23.1	27.2	33.9	40.7	46.2	48.9	51.6	57.0	54.3
82.5°	14.9	14.9	14.9	20.4	27.2	33.9	36.7	43.5	48.9	57.0	53.0
85°	8.1	8.1	8.1	13.6	20.4	28.5	27.2	21.7	12.2	1.4	2.7
87.5°	2.7	2.7	2.7	2.7	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°	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5
2.5°	4269.4	4206.9	4201.5	4073.8	3959.8	3904.1	3859.3	3734.3	3761.5	3689.5	3688.2
5°	4063.0	3935.3	3728.9	3559.2	3389.4	3355.5	3207.5	3078.5	3082.5	2990.2	3006.5
7.5°	3692.3	3604.0	3352.8	3086.6	2861.2	2701.0	2561.1	2476.9	2369.6	2332.9	2313.9
10°	3457.3	3348.7	3066.2	2732.2	2479.6	2394.1	2259.6	2184.9	2074.9	2020.6	1982.6
12.5°	3354.1	3195.2	2842.2	2502.7	2334.3	2246.0	2132.0	1996.2	1865.8	1815.6	1746.3
15°	3365.0	3174.9	2777.0	2410.4	2208.0	2036.9	1935.1	1784.3	1651.3	1563.0	1512.7
17.5°	3529.3	3298.4	2806.9	2339.7	2049.1	1834.6	1635.0	1472.0	1366.1	1299.6	1283.3
20°	3917.7	3604.0	2857.1	2225.7	1890.3	1622.7	1377.0	1207.2	1125.7	1124.4	1125.7
22.5°	4240.9	3929.9	2959.0	2157.8	1731.4	1351.2	1106.7	1052.4	1036.1	1070.1	1074.1
25°	4676.8	4296.5	3134.1	2122.5	1584.7	1151.5	1000.8	980.4	979.1	1022.5	1023.9
27.5°	5123.5	4617.0	3238.7	2019.3	1435.3	1048.3	937.0	932.9	954.6	1000.8	996.7
30°	5427.7	4885.9	3427.5	1895.7	1258.8	957.4	911.2	916.6	946.5	981.8	987.2
32.5°	5782.1	5150.7	3476.3	1827.8	1150.2	881.3	848.7	860.9	899.0	954.6	984.5
35°	6188.2	5338.1	3551.0	1735.5	1109.4	822.9	806.6	820.2	866.4	903.0	935.6
37.5°	6488.3	5669.4	3564.6	1663.5	1064.6	790.3	764.5	809.3	836.5	888.1	904.4
40°	6711.0	5909.8	3599.9	1618.7	1029.3	748.2	748.2	778.1	814.8	862.3	894.9
42.5°	6853.5	6084.9	3625.7	1577.9	961.4	736.0	729.2	759.1	808.0	854.1	869.1
44°	6940.5	6159.6	3599.9	1539.9	942.4	721.1	721.1	746.9	784.9	839.2	856.9
45°	6962.2	6253.3	3542.9	1538.6	919.3	703.4	700.7	749.6	775.4	841.9	852.8
47.5°	7046.4	6368.8	3549.7	1495.1	863.7	661.3	708.8	730.6	753.7	812.1	848.7
50°	7043.7	6440.7	3534.7	1431.3	822.9	613.8	692.6	717.0	740.1	799.8	814.8
52.5°	7062.7	6709.6	3671.9	1329.4	749.6	552.7	638.2	692.6	721.1	771.3	802.5
55°	7053.2	6863.0	3807.7	1253.4	646.4	516.0	592.1	655.9	696.6	749.6	764.5
57.5°	6442.1	6065.9	3523.9	1110.8	535.0	472.6	526.9	617.9	669.5	723.8	742.8
60°	5263.4	4675.4	2906.0	817.5	440.0	434.5	490.2	605.6	627.4	674.9	707.5
62.5°	4864.2	4101.0	2304.4	624.7	376.2	397.9	452.2	547.3	581.2	639.6	669.5
65°	3806.3	2724.0	1427.2	422.3	331.3	357.1	408.7	479.4	535.0	589.3	624.7
67.5°	2254.2	1488.3	706.1	296.0	289.2	316.4	369.4	422.3	486.1	545.9	563.5
70°	1227.6	731.9	301.5	225.4	245.8	270.2	321.8	358.5	419.6	465.8	495.6
72.5°	393.8	222.7	150.7	167.0	187.4	215.9	247.1	292.0	335.4	362.6	387.0
75°	95.1	93.7	107.3	116.8	135.8	157.5	183.3	206.4	240.4	266.2	287.9
77.5°	66.5	72.0	82.8	96.4	103.2	111.4	127.6	145.3	160.2	179.2	192.8
80°	51.6	55.7	63.8	70.6	77.4	84.2	92.3	99.1	108.6	120.9	127.6
82.5°	48.9	51.6	59.7	63.8	61.1	59.7	65.2	67.9	69.3	73.3	77.4
85°	4.1	0.0	2.7	9.5	23.1	33.9	36.7	36.7	35.3	38.0	38.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.4	4.1
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°	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5
2.5°	3671.9	3625.7	3643.4	3665.1	3633.9	3561.9	3580.9	3572.8	3646.1	3640.6	3714.0
5°	3078.5	3006.5	3014.6	3120.6	3086.6	3123.3	3049.9	3040.4	3054.0	3060.8	3073.0
7.5°	2356.0	2346.5	2428.0	2517.6	2559.7	2516.3	2444.3	2428.0	2413.1	2383.2	2451.1
10°	1922.8	1925.6	1920.1	1988.0	2035.6	2026.1	1982.6	1977.2	1948.6	1937.8	1975.8
12.5°	1716.4	1679.8	1662.1	1640.4	1677.1	1701.5	1682.5	1668.9	1670.3	1683.9	1689.3
15°	1516.8	1493.7	1455.7	1431.3	1448.9	1436.7	1429.9	1457.1	1450.3	1447.6	1480.2
17.5°	1292.8	1311.8	1309.1	1281.9	1305.0	1295.5	1294.1	1275.1	1249.3	1230.3	1241.2
20°	1144.7	1180.1	1207.2	1208.6	1220.8	1219.4	1199.1	1140.7	1121.7	1117.6	1120.3
22.5°	1091.8	1110.8	1143.4	1189.6	1189.6	1167.8	1143.4	1075.5	1057.8	1038.8	1030.7
25°	1049.7	1086.4	1128.5	1133.9	1155.6	1135.2	1095.9	1061.9	1025.2	999.4	999.4
27.5°	1028.0	1068.7	1099.9	1109.4	1139.3	1123.0	1082.3	1038.8	995.4	994.0	970.9
30°	1018.5	1056.5	1076.8	1099.9	1113.5	1087.7	1075.5	1029.3	985.9	975.0	937.0
32.5°	989.9	1044.3	1082.3	1076.8	1087.7	1076.8	1059.2	1021.2	972.3	947.8	943.8
35°	957.4	1011.7	1052.4	1080.9	1087.7	1064.6	1053.8	1002.2	935.6	923.4	881.3
37.5°	939.7	972.3	1022.5	1068.7	1078.2	1066.0	1029.3	976.4	909.8	896.2	859.6
40°	918.0	960.1	999.4	1037.5	1066.0	1036.1	994.0	942.4	912.5	871.8	860.9
42.5°	901.7	949.2	981.8	1023.9	1056.5	1017.1	968.2	932.9	890.8	863.7	832.4
44°	896.2	939.7	961.4	1013.0	1040.2	1010.3	969.6	932.9	884.0	859.6	832.4
45°	877.2	937.0	960.1	1006.2	1029.3	1004.9	953.3	916.6	881.3	851.4	822.9
47.5°	858.2	899.0	938.3	975.0	991.3	983.2	939.7	894.9	852.8	835.1	808.0
50°	852.8	893.5	930.2	964.1	983.2	966.9	927.5	884.0	835.1	806.6	783.5
52.5°	825.6	875.9	916.6	927.5	951.9	942.4	912.5	865.0	818.8	794.4	775.4
55°	786.2	839.2	894.9	908.5	943.8	928.8	884.0	839.2	799.8	763.2	738.7
57.5°	771.3	822.9	877.2	894.9	916.6	892.2	881.3	833.8	771.3	752.3	714.3
60°	733.3	798.5	843.3	884.0	885.4	878.6	859.6	805.3	753.7	718.4	691.2
62.5°	703.4	764.5	799.8	837.9	860.9	841.9	822.9	772.7	717.0	677.6	646.4
65°	660.0	715.6	745.5	768.6	794.4	791.7	759.1	722.4	664.0	632.8	602.9
67.5°	593.4	642.3	683.0	704.8	721.1	717.0	692.6	666.8	607.0	575.8	554.0
70°	513.3	563.5	589.3	601.6	617.9	626.0	607.0	594.8	541.8	501.1	480.7
72.5°	412.8	445.4	483.4	494.3	501.1	506.5	506.5	495.6	441.3	425.0	389.7
75°	304.2	330.0	358.5	358.5	370.7	372.1	374.8	368.0	327.3	305.5	297.4
77.5°	206.4	225.4	248.5	258.0	266.2	264.8	263.4	244.4	222.7	213.2	205.0
80°	134.4	153.4	164.3	176.5	184.7	183.3	186.0	172.5	163.0	146.7	149.4
82.5°	80.1	95.1	105.9	120.9	120.9	124.9	124.9	120.9	111.4	103.2	103.2
85°	38.0	50.2	57.0	66.5	72.0	73.3	65.2	55.7	46.2	42.1	46.2
87.5°	6.8	9.5	13.6	12.2	14.9	13.6	13.6	13.6	13.6	10.9	12.2
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: P528314

CATALOG NUMBER: GALN-SA3B-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5	4148.5
2.5°	3686.8	3754.7	3802.2	3881.0	4016.8	4125.4	4236.8	4319.6	4329.1	4353.6
5°	3117.8	3154.5	3275.4	3432.9	3544.2	3727.6	3845.7	4060.3	4140.4	4225.9
7.5°	2434.8	2494.5	2656.1	2762.1	3006.5	3236.0	3473.6	3738.4	3844.3	3856.6
10°	2053.2	2140.1	2250.1	2419.9	2552.9	2808.2	3104.3	3398.9	3517.1	3537.4
12.5°	1803.3	1914.7	2061.4	2183.6	2311.2	2533.9	2817.7	3181.7	3335.1	3427.5
15°	1563.0	1678.4	1840.0	2009.8	2122.5	2388.6	2722.7	3132.8	3332.4	3413.9
17.5°	1315.8	1423.1	1556.2	1739.5	1966.3	2265.1	2707.7	3295.7	3514.4	3609.4
20°	1104.0	1163.8	1318.6	1507.3	1791.1	2138.8	2713.2	3536.1	3856.6	3898.7
22.5°	1021.2	1034.8	1095.9	1269.7	1580.6	2009.8	2809.6	3876.9	4240.9	4379.4
25°	957.4	954.6	970.9	1087.7	1427.2	1959.5	2904.6	4190.6	4667.3	4818.0
27.5°	922.0	894.9	896.2	1006.2	1318.6	1878.0	3026.9	4550.5	5150.7	5217.2
30°	904.4	899.0	882.7	927.5	1200.4	1755.8	3047.2	4904.9	5435.9	5532.3
32.5°	893.5	840.6	820.2	836.5	1089.1	1622.7	3123.3	5138.5	5788.9	5746.8
35°	839.2	791.7	778.1	794.4	1010.3	1548.1	3073.0	5342.2	6053.7	6124.3
37.5°	818.8	776.7	749.6	736.0	937.0	1485.6	3047.2	5655.8	6310.4	6480.1
40°	799.8	755.0	722.4	708.8	879.9	1402.8	3039.1	5897.6	6606.4	6708.2
42.5°	778.1	749.6	712.9	688.5	810.7	1319.9	2945.4	5972.2	6697.4	6807.4
44°	771.3	727.9	689.8	681.7	783.5	1277.8	2926.4	6040.1	6776.1	6943.2
45°	764.5	723.8	680.3	669.5	774.0	1254.7	2900.6	6056.4	6906.5	6937.7
47.5°	745.5	719.7	677.6	647.7	753.7	1204.5	2823.2	5964.1	6773.4	6778.9
50°	730.6	700.7	657.2	598.9	726.5	1162.4	2858.5	5930.1	6453.0	6465.2
52.5°	714.3	669.5	645.0	544.5	681.7	1127.1	2933.2	6083.6	6489.6	6486.9
55°	695.3	646.4	586.6	498.4	607.0	1082.3	3113.8	6386.4	6829.1	6875.3
57.5°	665.4	623.3	537.7	457.6	521.5	996.7	3055.4	5806.6	6283.2	6291.4
60°	626.0	586.6	487.5	426.4	427.8	786.2	2732.2	4524.7	4957.9	5076.0
62.5°	588.0	566.3	445.4	381.6	363.9	626.0	2309.9	3760.1	4255.8	4353.6
65°	543.2	490.2	408.7	347.6	312.3	438.6	1636.3	2809.6	3320.2	3451.9
67.5°	486.1	429.1	359.9	305.5	267.5	293.3	844.6	1596.9	2114.3	2191.7
70°	425.0	372.1	302.8	258.0	215.9	202.3	372.1	761.8	1155.6	1235.7
72.5°	349.0	300.1	241.7	203.7	161.6	139.9	124.9	203.7	410.1	476.6
75°	252.6	218.6	182.0	145.3	114.1	89.6	73.3	61.1	67.9	73.3
77.5°	186.0	158.9	134.4	103.2	80.1	63.8	50.2	38.0	36.7	35.3
80°	145.3	129.0	107.3	82.8	62.5	47.5	35.3	25.8	23.1	23.1
82.5°	114.1	105.9	88.3	67.9	51.6	38.0	25.8	17.7	14.9	14.9
85°	43.5	43.5	63.8	55.7	39.4	27.2	17.7	9.5	8.1	8.1
87.5°	10.9	10.9	10.9	10.9	9.5	8.1	8.1	4.1	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)