

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: P529016

Luminaire Tested: **GALN-SA4A-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529016
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-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 9904 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

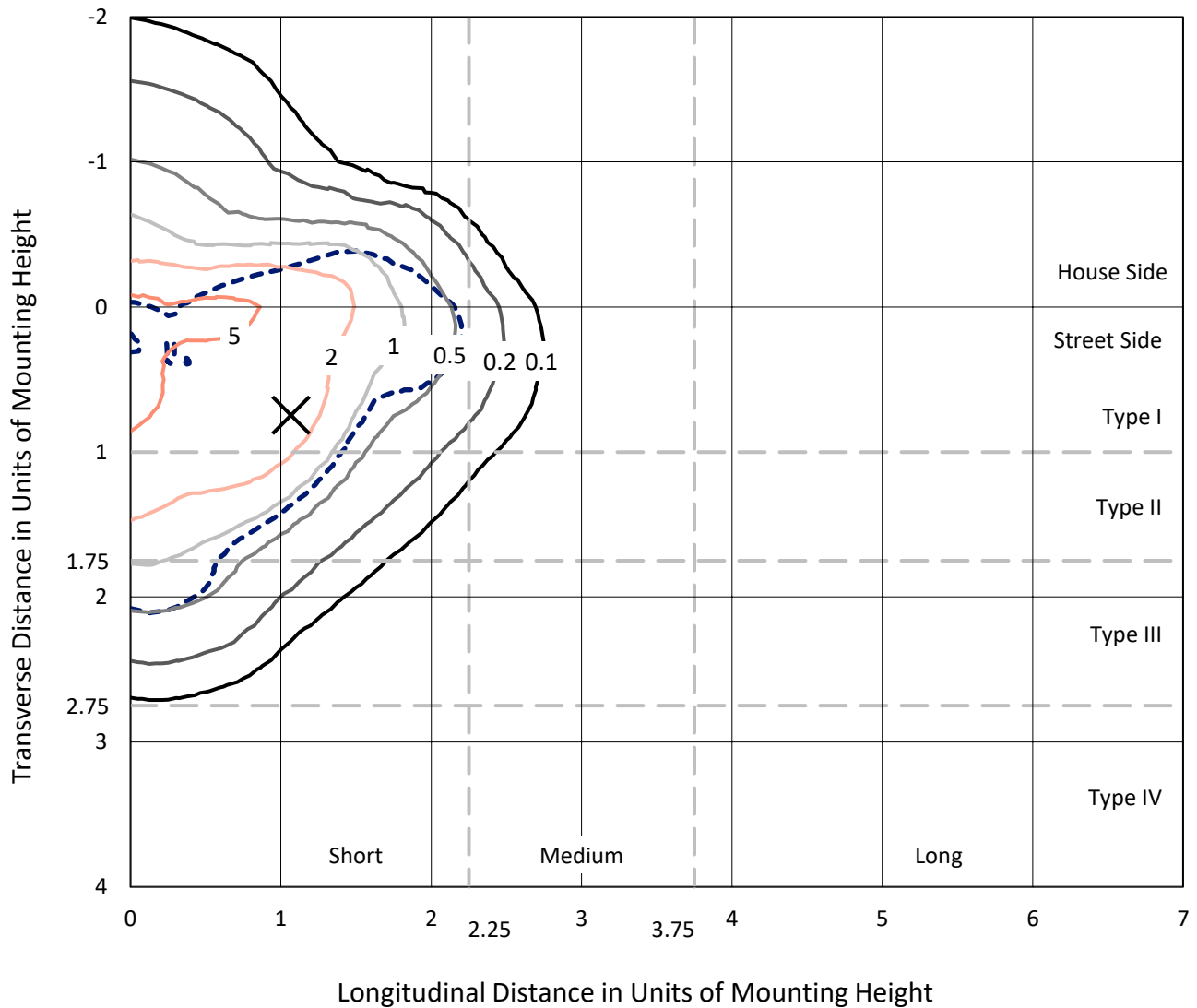
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

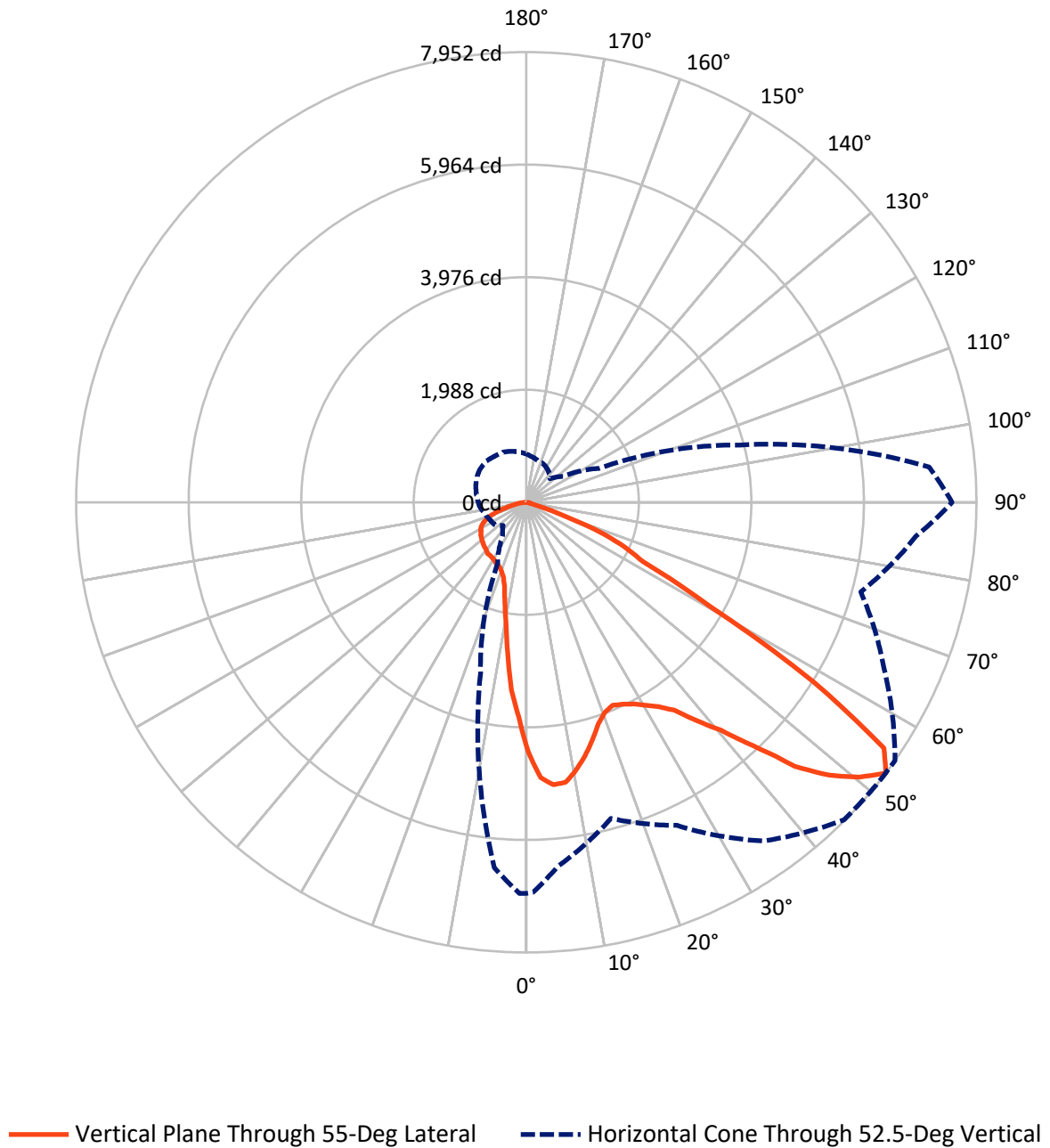
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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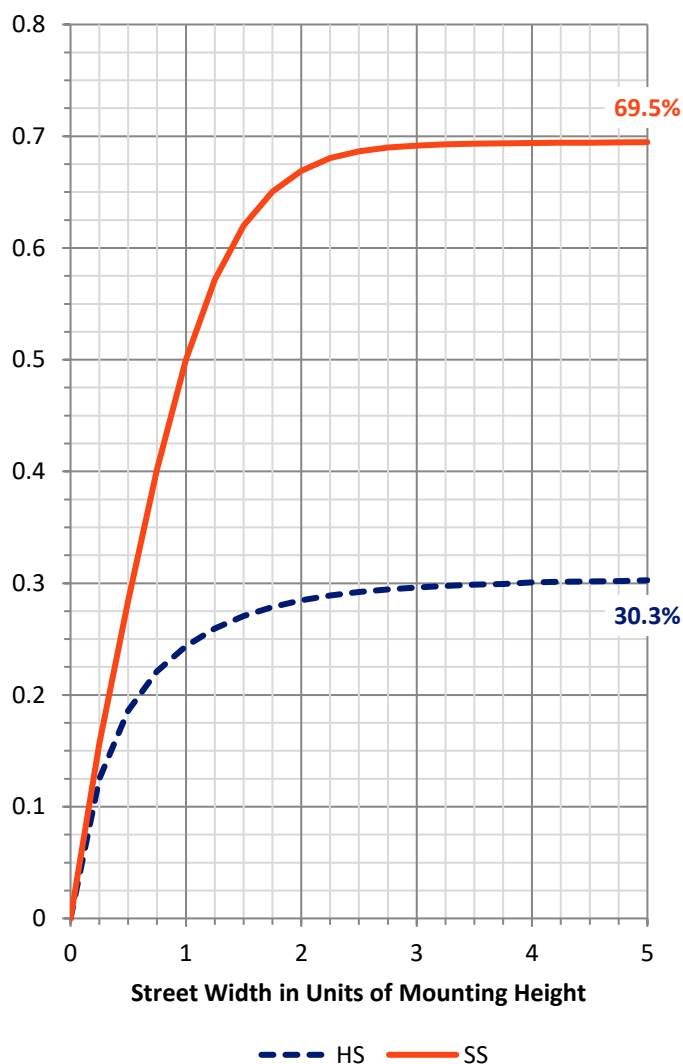
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3021.3	0.0	3021.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6882.7	0.0	6882.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	9904.0	0.0	9904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.5	3.4
10°-20°	727.7	7.3
20°-30°	1103.5	11.1
30°-40°	1594.4	16.1
40°-50°	2130.5	21.5
50°-60°	2378.1	24.0
60°-70°	1304.5	13.2
70°-80°	282.0	2.8
80°-90°	45.6	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°	9904.0	100.0
0°-180°	9904.0	100.0

Coefficient of Utilization



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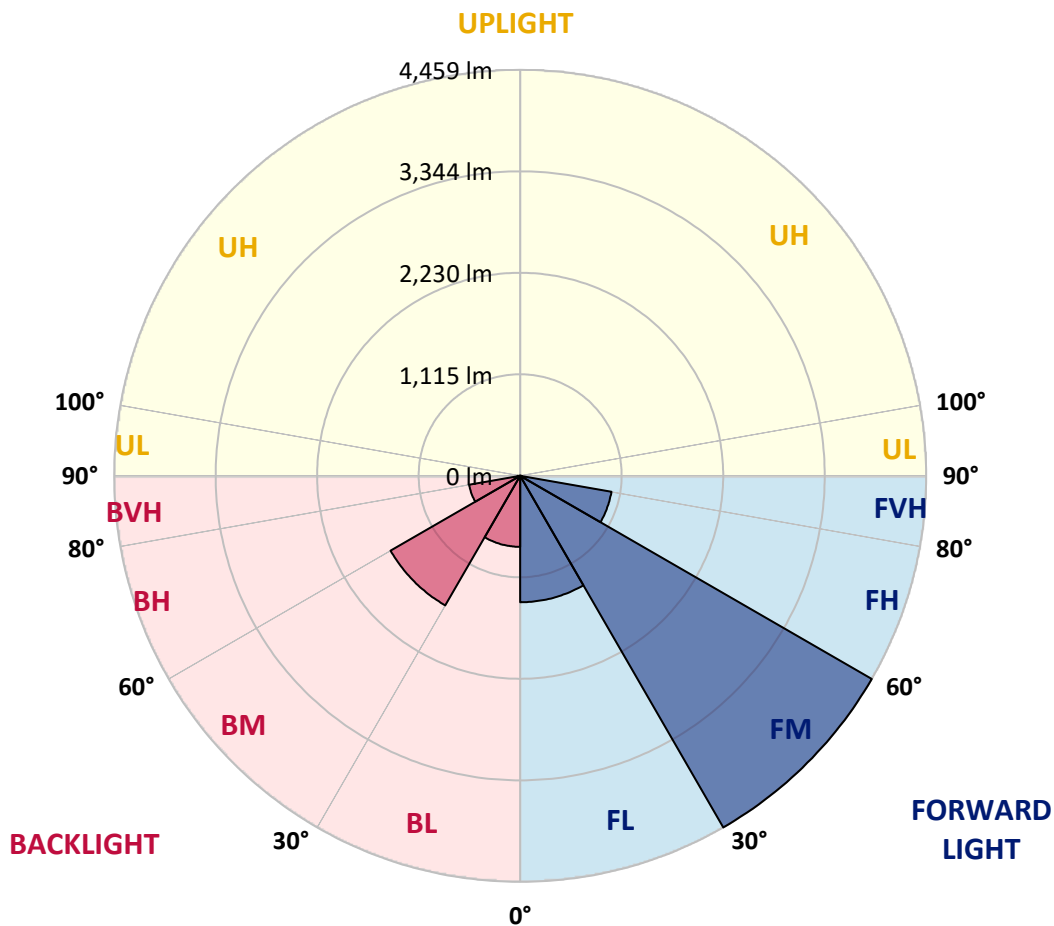
CATALOG NUMBER: GALN-SA4A-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.7	14.0			
FM (30°-60°)	4459.2	45.0			
FH (60°-80°)	1017.9	10.3			G1/1800
FVH (80°-90°)	16.9	0.2			G1/100
BL (0°-30°)	780.0	7.9	B2/1000		
BM (30°-60°)	1643.8	16.6	B2/2500		
BH (60°-80°)	568.7	5.7	B2/1000		G2/1000
BVH (80°-90°)	28.7	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°	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0
2.5°	4636.3	4610.3	4633.4	4743.3	4807.0	4850.3	4877.8	4873.5	4769.4	4668.1	4668.1
5°	4500.4	4467.1	4514.8	4763.6	5013.8	5035.5	5071.6	5012.3	4859.0	4673.9	4442.5
7.5°	4107.0	4131.6	4211.2	4538.0	4863.4	5026.8	5070.2	4995.0	4746.2	4400.6	4060.8
10°	3767.2	3825.0	4008.7	4361.6	4660.9	4873.5	4921.2	4815.6	4619.0	4195.2	3891.6
12.5°	3650.1	3613.9	3817.8	4170.7	4457.0	4571.2	4592.9	4600.2	4467.1	4091.1	3720.9
15°	3635.6	3658.7	3817.8	4085.3	4261.8	4267.6	4303.7	4360.1	4377.5	4162.0	3800.4
17.5°	3843.8	3816.4	3979.8	4192.4	4108.5	4024.6	4033.3	4114.3	4257.4	4222.7	4050.6
20°	4151.9	4214.0	4342.8	4321.1	4095.5	3882.9	3884.3	3961.0	4243.0	4474.3	4399.2
22.5°	4663.8	4724.5	4820.0	4558.2	4095.5	3840.9	3791.8	3895.9	4335.5	4773.7	4792.5
25°	5130.9	5242.2	5268.3	4960.3	4300.8	3880.0	3848.2	3950.8	4428.1	5065.8	5243.7
27.5°	5556.1	5596.6	5710.8	5219.1	4415.1	3906.0	3903.1	4034.7	4545.2	5211.9	5647.2
30°	5891.6	5887.2	5952.3	5382.5	4597.3	4052.1	3911.8	4160.5	4698.5	5453.4	6020.3
32.5°	6120.1	6169.2	6306.6	5609.6	4673.9	4190.9	4081.0	4308.0	4885.1	5567.6	6283.5
35°	6522.1	6607.4	6433.9	5735.4	4916.9	4328.3	4199.6	4509.1	4977.6	5692.0	6606.0
37.5°	6901.0	6835.9	6659.5	5803.3	5074.5	4582.8	4462.8	4898.1	5265.4	5962.4	6820.0
40°	7143.9	7142.5	6828.7	5858.3	5185.8	4971.8	4964.6	5292.9	5618.2	6133.1	7060.0
42.5°	7249.5	7350.7	6898.1	5852.5	5420.1	5443.3	5589.3	5882.9	5868.4	6167.8	7054.3
44°	7394.1	7454.8	7018.1	5865.5	5576.3	5761.4	6105.6	6292.1	6086.8	6149.0	7047.0
45°	7388.3	7392.7	6847.5	5882.9	5709.4	6027.5	6335.5	6650.8	6279.1	6108.5	7142.5
47.5°	7219.1	7169.9	6702.8	5754.2	6124.4	6730.3	7015.2	7206.1	6516.3	6021.7	7023.9
50°	6885.1	6828.7	6351.4	5699.2	6211.2	7167.1	7560.4	7629.8	6731.8	5936.4	6906.8
52.5°	6908.2	6892.3	6451.2	5781.7	6297.9	7304.4	7935.0	7952.3	6976.2	6115.7	6908.2
55°	7321.8	7266.8	6737.6	5884.3	6234.3	7143.9	7696.3	7666.0	6893.7	6007.3	7035.5
57.5°	6700.0	6736.1	6341.3	5478.0	5456.3	5807.7	6050.6	5975.4	5752.7	5421.6	6545.2
60°	5405.7	5508.3	5545.9	4581.4	4117.2	3936.4	3864.1	3731.0	3768.6	4454.1	5749.8
62.5°	4636.3	4630.5	4866.3	4153.3	2697.0	2319.6	2284.9	2315.3	2749.1	4384.7	5631.3
65°	3676.1	3774.4	3846.7	3519.9	2134.5	1722.3	1720.9	1913.2	2378.9	3664.5	4546.7
67.5°	2334.1	2462.8	2552.4	2251.6	1427.3	1226.3	1193.1	1424.4	1648.6	2403.5	2737.5
70°	1316.0	1376.7	1417.2	1298.6	908.2	636.3	598.7	653.7	996.4	1556.0	1622.6
72.5°	507.6	535.1	590.0	594.4	342.7	205.4	166.3	199.6	419.4	616.1	587.1
75°	78.1	83.9	118.6	141.7	98.3	75.2	79.5	82.4	117.1	159.1	133.0
77.5°	37.6	37.6	36.2	41.9	49.2	53.5	57.8	63.6	69.4	76.6	73.8
80°	24.6	24.6	24.6	28.9	36.2	43.4	49.2	52.1	55.0	60.7	57.8
82.5°	15.9	15.9	15.9	21.7	28.9	36.2	39.0	46.3	52.1	60.7	56.4
85°	8.7	8.7	8.7	14.5	21.7	30.4	28.9	23.1	13.0	1.4	2.9
87.5°	2.9	2.9	2.9	2.9	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°	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0
2.5°	4546.7	4480.1	4474.3	4338.4	4216.9	4157.6	4109.9	3976.9	4005.8	3929.2	3927.7
5°	4326.8	4190.9	3971.1	3790.3	3609.6	3573.4	3415.8	3278.4	3282.7	3184.4	3201.7
7.5°	3932.0	3838.0	3570.5	3287.1	3047.0	2876.4	2727.4	2637.8	2523.5	2484.5	2464.2
10°	3681.9	3566.2	3265.4	2909.6	2640.6	2549.5	2406.4	2326.8	2209.7	2151.9	2111.4
12.5°	3572.0	3402.8	3026.8	2665.2	2485.9	2391.9	2270.4	2125.8	1987.0	1933.5	1859.7
15°	3583.5	3381.1	2957.4	2566.9	2351.4	2169.2	2060.7	1900.2	1758.5	1664.5	1611.0
17.5°	3758.5	3512.7	2989.2	2491.7	2182.2	1953.7	1741.1	1567.6	1454.8	1384.0	1366.6
20°	4172.1	3838.0	3042.7	2370.2	2013.0	1728.1	1466.4	1285.6	1198.8	1197.4	1198.8
22.5°	4516.3	4185.1	3151.1	2297.9	1843.8	1438.9	1178.6	1120.8	1103.4	1139.6	1143.9
25°	4980.5	4575.6	3337.7	2260.3	1687.6	1226.3	1065.8	1044.1	1042.7	1088.9	1090.4
27.5°	5456.3	4916.9	3449.0	2150.4	1528.6	1116.4	997.8	993.5	1016.6	1065.8	1061.5
30°	5780.2	5203.2	3650.1	2018.8	1340.6	1019.5	970.4	976.1	1008.0	1045.6	1051.3
32.5°	6157.7	5485.2	3702.1	1946.5	1224.9	938.5	903.8	916.9	957.3	1016.6	1048.4
35°	6590.0	5684.8	3781.6	1848.2	1181.5	876.4	859.0	873.5	922.6	961.7	996.4
37.5°	6909.6	6037.6	3796.1	1771.5	1133.8	841.7	814.2	861.9	890.8	945.8	963.1
40°	7146.8	6293.6	3833.7	1723.8	1096.2	796.8	796.8	828.6	867.7	918.3	953.0
42.5°	7298.7	6480.1	3861.2	1680.4	1023.9	783.8	776.6	808.4	860.5	909.6	925.5
44°	7391.2	6559.7	3833.7	1639.9	1003.6	767.9	767.9	795.4	835.9	893.7	912.5
45°	7414.3	6659.5	3773.0	1638.5	979.0	749.1	746.2	798.3	825.7	896.6	908.2
47.5°	7504.0	6782.4	3780.2	1592.2	919.7	704.3	754.9	778.0	802.6	864.8	903.8
50°	7501.1	6859.0	3764.3	1524.2	876.4	653.7	737.5	763.6	788.1	851.8	867.7
52.5°	7521.4	7145.4	3910.4	1415.8	798.3	588.6	679.7	737.5	767.9	821.4	854.7
55°	7511.2	7308.8	4055.0	1334.8	688.4	549.5	630.5	698.5	741.9	798.3	814.2
57.5°	6860.5	6459.9	3752.7	1182.9	569.8	503.3	561.1	658.0	712.9	770.8	791.0
60°	5605.2	4979.1	3094.7	870.6	468.5	462.8	522.1	645.0	668.1	718.7	753.4
62.5°	5180.1	4367.3	2454.1	665.2	400.6	423.7	481.6	582.8	618.9	681.1	712.9
65°	4053.5	2901.0	1519.9	449.7	352.9	380.3	435.3	510.5	569.8	627.6	665.2
67.5°	2400.6	1585.0	752.0	315.3	308.0	337.0	393.3	449.7	517.7	581.3	600.1
70°	1307.3	779.5	321.0	240.1	261.8	287.8	342.7	381.8	446.9	496.0	527.8
72.5°	419.4	237.2	160.5	177.9	199.6	229.9	263.2	310.9	357.2	386.1	412.1
75°	101.2	99.8	114.2	124.4	144.6	167.8	195.2	219.8	256.0	283.4	306.6
77.5°	70.9	76.6	88.2	102.7	109.9	118.6	135.9	154.7	170.6	190.9	205.4
80°	55.0	59.3	68.0	75.2	82.4	89.7	98.3	105.6	115.7	128.7	135.9
82.5°	52.1	55.0	63.6	68.0	65.1	63.6	69.4	72.3	73.8	78.1	82.4
85°	4.3	0.0	2.9	10.1	24.6	36.2	39.0	39.0	37.6	40.5	40.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.8	4.3
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°	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0
2.5°	3910.4	3861.2	3880.0	3903.1	3869.9	3793.2	3813.5	3804.8	3882.9	3877.1	3955.2
5°	3278.4	3201.7	3210.4	3323.2	3287.1	3326.1	3248.0	3237.9	3252.4	3259.6	3272.6
7.5°	2509.0	2498.9	2585.7	2681.1	2726.0	2679.7	2603.0	2585.7	2569.8	2538.0	2610.3
10°	2047.7	2050.6	2044.8	2117.1	2167.8	2157.6	2111.4	2105.6	2075.2	2063.6	2104.1
12.5°	1827.9	1788.9	1770.1	1746.9	1786.0	1812.0	1791.8	1777.3	1778.7	1793.2	1799.0
15°	1615.3	1590.8	1550.3	1524.2	1543.0	1530.0	1522.8	1551.7	1544.5	1541.6	1576.3
17.5°	1376.7	1397.0	1394.1	1365.2	1389.7	1379.6	1378.2	1357.9	1330.4	1310.2	1321.8
20°	1219.1	1256.7	1285.6	1287.1	1300.1	1298.6	1276.9	1214.8	1194.5	1190.2	1193.1
22.5°	1162.7	1182.9	1217.6	1266.8	1266.8	1243.7	1217.6	1145.3	1126.5	1106.3	1097.6
25°	1117.9	1156.9	1201.7	1207.5	1230.7	1209.0	1167.0	1130.9	1091.8	1064.4	1064.4
27.5°	1094.7	1138.1	1171.4	1181.5	1213.3	1196.0	1152.6	1106.3	1060.0	1058.6	1034.0
30°	1084.6	1125.1	1146.8	1171.4	1185.8	1158.4	1145.3	1096.2	1049.9	1038.3	997.8
32.5°	1054.2	1112.1	1152.6	1146.8	1158.4	1146.8	1128.0	1087.5	1035.4	1009.4	1005.1
35°	1019.5	1077.4	1120.8	1151.1	1158.4	1133.8	1122.2	1067.2	996.4	983.4	938.5
37.5°	1000.7	1035.4	1088.9	1138.1	1148.2	1135.2	1096.2	1039.8	968.9	954.5	915.4
40°	977.6	1022.4	1064.4	1104.8	1135.2	1103.4	1058.6	1003.6	971.8	928.4	916.9
42.5°	960.2	1010.9	1045.6	1090.4	1125.1	1083.2	1031.1	993.5	948.7	919.7	886.5
44°	954.5	1000.7	1023.9	1078.8	1107.7	1075.9	1032.5	993.5	941.4	915.4	886.5
45°	934.2	997.8	1022.4	1071.6	1096.2	1070.1	1015.2	976.1	938.5	906.7	876.4
47.5°	914.0	957.3	999.3	1038.3	1055.7	1047.0	1000.7	953.0	908.2	889.4	860.5
50°	908.2	951.6	990.6	1026.8	1047.0	1029.6	987.7	941.4	889.4	859.0	834.4
52.5°	879.3	932.8	976.1	987.7	1013.7	1003.6	971.8	921.2	872.0	846.0	825.7
55°	837.3	893.7	953.0	967.5	1005.1	989.2	941.4	893.7	851.8	812.7	786.7
57.5°	821.4	876.4	934.2	953.0	976.1	950.1	938.5	887.9	821.4	801.2	760.7
60°	780.9	850.3	898.1	941.4	942.9	935.7	915.4	857.6	802.6	765.0	736.1
62.5°	749.1	814.2	851.8	892.3	916.9	896.6	876.4	822.9	763.6	721.6	688.4
65°	702.8	762.1	793.9	818.5	846.0	843.1	808.4	769.3	707.2	673.9	642.1
67.5°	632.0	684.0	727.4	750.5	767.9	763.6	737.5	710.1	646.4	613.2	590.0
70°	546.6	600.1	627.6	640.6	658.0	666.7	646.4	633.4	577.0	533.6	511.9
72.5°	439.6	474.3	514.8	526.4	533.6	539.4	539.4	527.8	470.0	452.6	415.0
75°	323.9	351.4	381.8	381.8	394.8	396.2	399.1	391.9	348.5	325.4	316.7
77.5°	219.8	240.1	264.6	274.8	283.4	282.0	280.6	260.3	237.2	227.0	218.4
80°	143.2	163.4	175.0	188.0	196.7	195.2	198.1	183.7	173.5	156.2	159.1
82.5°	85.3	101.2	112.8	128.7	128.7	133.0	133.0	128.7	118.6	109.9	109.9
85°	40.5	53.5	60.7	70.9	76.6	78.1	69.4	59.3	49.2	44.8	49.2
87.5°	7.2	10.1	14.5	13.0	15.9	14.5	14.5	14.5	14.5	11.6	13.0
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: P529016

CATALOG NUMBER: GALN-SA4A-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0	4418.0
2.5°	3926.3	3998.6	4049.2	4133.1	4277.7	4393.4	4511.9	4600.2	4610.3	4636.3
5°	3320.3	3359.4	3488.1	3655.8	3774.4	3969.6	4095.5	4324.0	4409.3	4500.4
7.5°	2592.9	2656.6	2828.6	2941.4	3201.7	3446.1	3699.2	3981.2	4094.0	4107.0
10°	2186.6	2279.1	2396.2	2577.0	2718.7	2990.6	3305.9	3619.7	3745.5	3767.2
12.5°	1920.5	2039.1	2195.2	2325.4	2461.3	2698.5	3000.7	3388.3	3551.7	3650.1
15°	1664.5	1787.4	1959.5	2140.3	2260.3	2543.8	2899.5	3336.2	3548.8	3635.6
17.5°	1401.3	1515.6	1657.3	1852.5	2094.0	2412.2	2883.6	3509.8	3742.6	3843.8
20°	1175.7	1239.3	1404.2	1605.2	1907.5	2277.7	2889.4	3765.7	4107.0	4151.9
22.5°	1087.5	1102.0	1167.0	1352.1	1683.3	2140.3	2992.1	4128.7	4516.3	4663.8
25°	1019.5	1016.6	1034.0	1158.4	1519.9	2086.8	3093.3	4462.8	4970.4	5130.9
27.5°	981.9	953.0	954.5	1071.6	1404.2	2000.0	3223.4	4846.0	5485.2	5556.1
30°	963.1	957.3	940.0	987.7	1278.4	1869.9	3245.1	5223.4	5788.9	5891.6
32.5°	951.6	895.2	873.5	890.8	1159.8	1728.1	3326.1	5472.2	6164.9	6120.1
35°	893.7	843.1	828.6	846.0	1075.9	1648.6	3272.6	5689.1	6446.9	6522.1
37.5°	872.0	827.2	798.3	783.8	997.8	1582.1	3245.1	6023.2	6720.2	6901.0
40°	851.8	804.1	769.3	754.9	937.1	1493.9	3236.5	6280.6	7035.5	7143.9
42.5°	828.6	798.3	759.2	733.2	863.3	1405.6	3136.7	6360.1	7132.4	7249.5
44°	821.4	775.1	734.6	726.0	834.4	1360.8	3116.4	6432.4	7216.2	7394.1
45°	814.2	770.8	724.5	712.9	824.3	1336.2	3088.9	6449.8	7355.1	7388.3
47.5°	793.9	766.5	721.6	689.8	802.6	1282.7	3006.5	6351.4	7213.3	7219.1
50°	778.0	746.2	699.9	637.7	773.7	1237.9	3044.1	6315.3	6872.0	6885.1
52.5°	760.7	712.9	686.9	579.9	726.0	1200.3	3123.7	6478.7	6911.1	6908.2
55°	740.4	688.4	624.7	530.7	646.4	1152.6	3316.0	6801.2	7272.6	7321.8
57.5°	708.6	663.8	572.7	487.3	555.3	1061.5	3253.8	6183.7	6691.3	6700.0
60°	666.7	624.7	519.2	454.1	455.5	837.3	2909.6	4818.5	5279.8	5405.7
62.5°	626.2	603.0	474.3	406.4	387.6	666.7	2459.9	4004.4	4532.2	4636.3
65°	578.5	522.1	435.3	370.2	332.6	467.1	1742.6	2992.1	3535.8	3676.1
67.5°	517.7	457.0	383.2	325.4	284.9	312.4	899.5	1700.7	2251.6	2334.1
70°	452.6	396.2	322.5	274.8	229.9	215.5	396.2	811.3	1230.7	1316.0
72.5°	371.7	319.6	257.4	216.9	172.1	149.0	133.0	216.9	436.7	507.6
75°	269.0	232.8	193.8	154.7	121.5	95.4	78.1	65.1	72.3	78.1
77.5°	198.1	169.2	143.2	109.9	85.3	68.0	53.5	40.5	39.0	37.6
80°	154.7	137.4	114.2	88.2	66.5	50.6	37.6	27.5	24.6	24.6
82.5°	121.5	112.8	94.0	72.3	55.0	40.5	27.5	18.8	15.9	15.9
85°	46.3	46.3	68.0	59.3	41.9	28.9	18.8	10.1	8.7	8.7
87.5°	11.6	11.6	11.6	11.6	10.1	8.7	8.7	4.3	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)