

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: P527690

Luminaire Tested: **GALN-SA2D-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527690
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-SA2D-727-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 9690 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

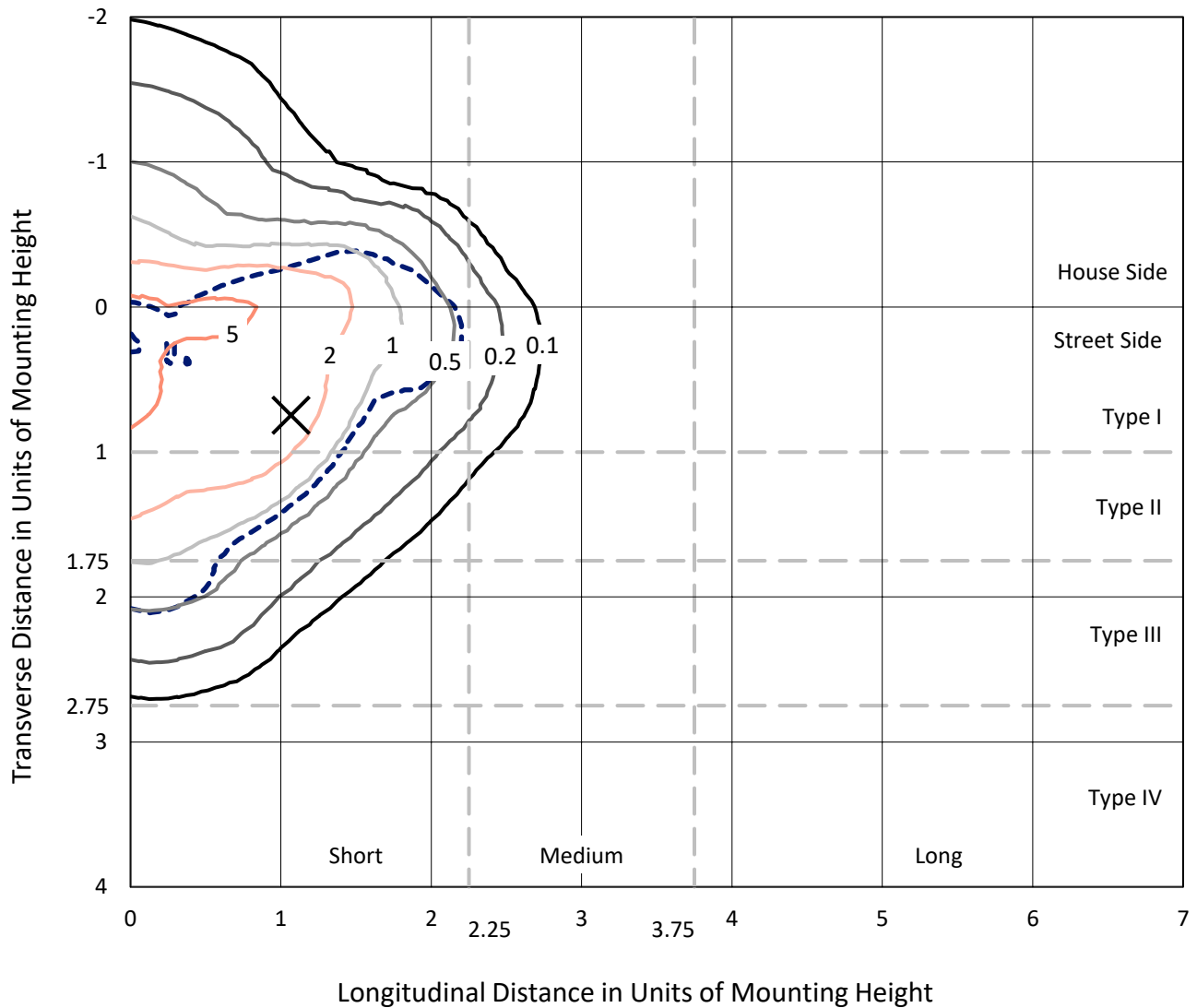
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

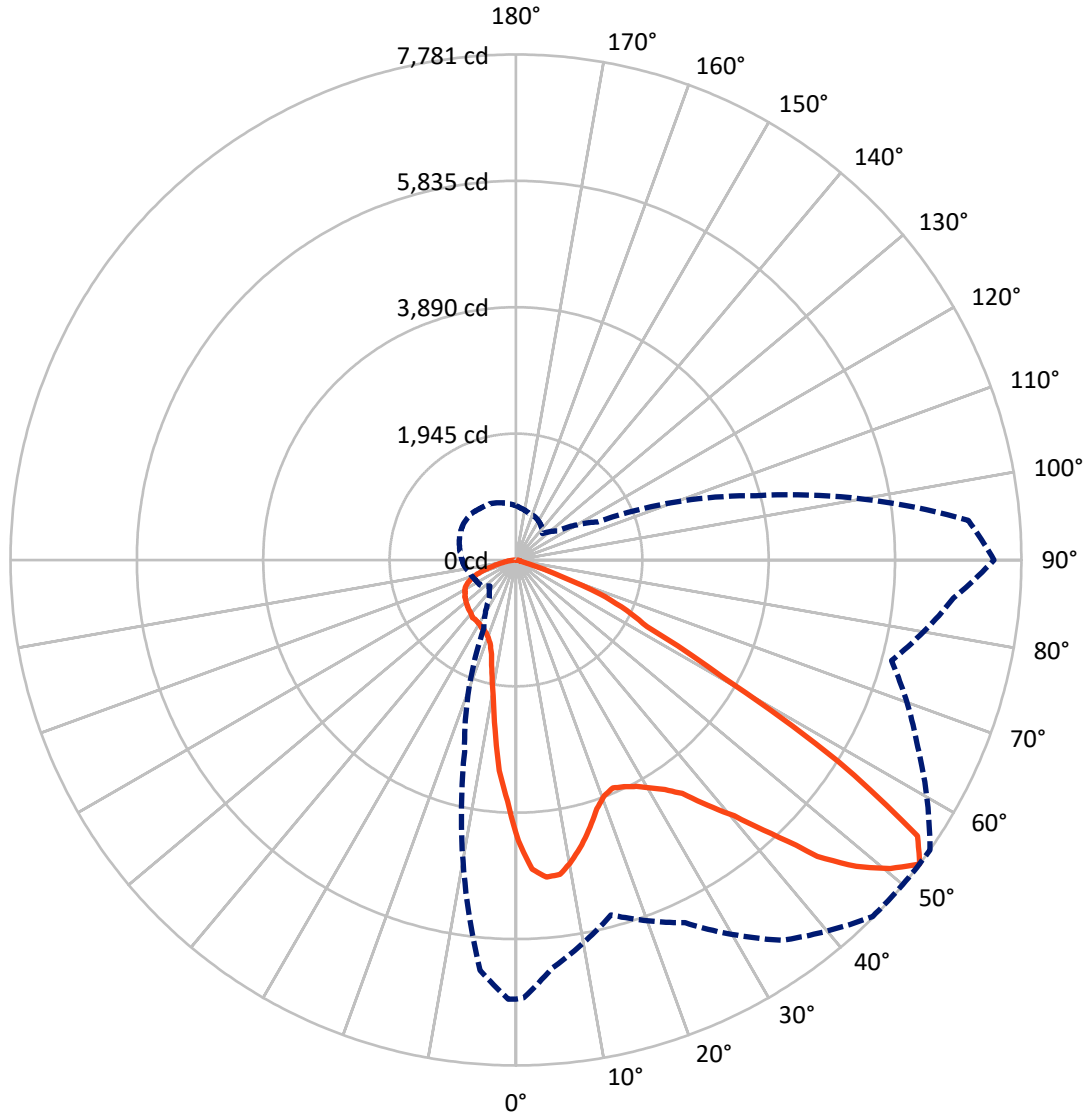
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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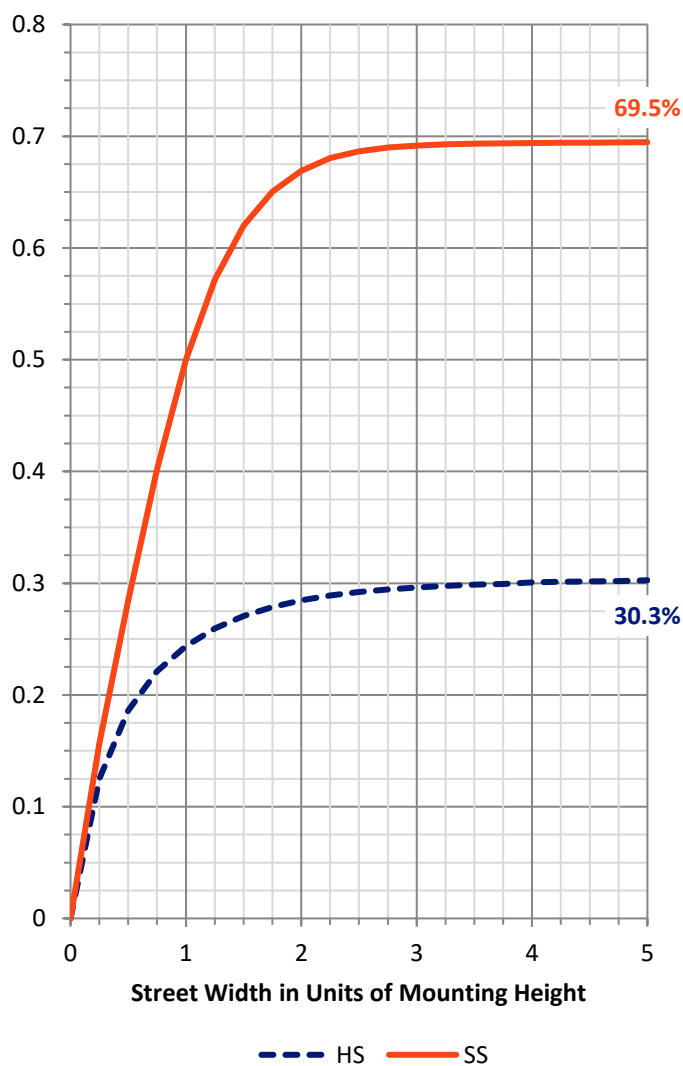
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2956.0	0.0	2956.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	6734.0	0.0	6734.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	9690.0	0.0	9690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	3.4
10°-20°	712.0	7.3
20°-30°	1079.7	11.1
30°-40°	1559.9	16.1
40°-50°	2084.5	21.5
50°-60°	2326.8	24.0
60°-70°	1276.3	13.2
70°-80°	275.9	2.8
80°-90°	44.6	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°	9690.0	100.0
0°-180°	9690.0	100.0

Coefficient of Utilization

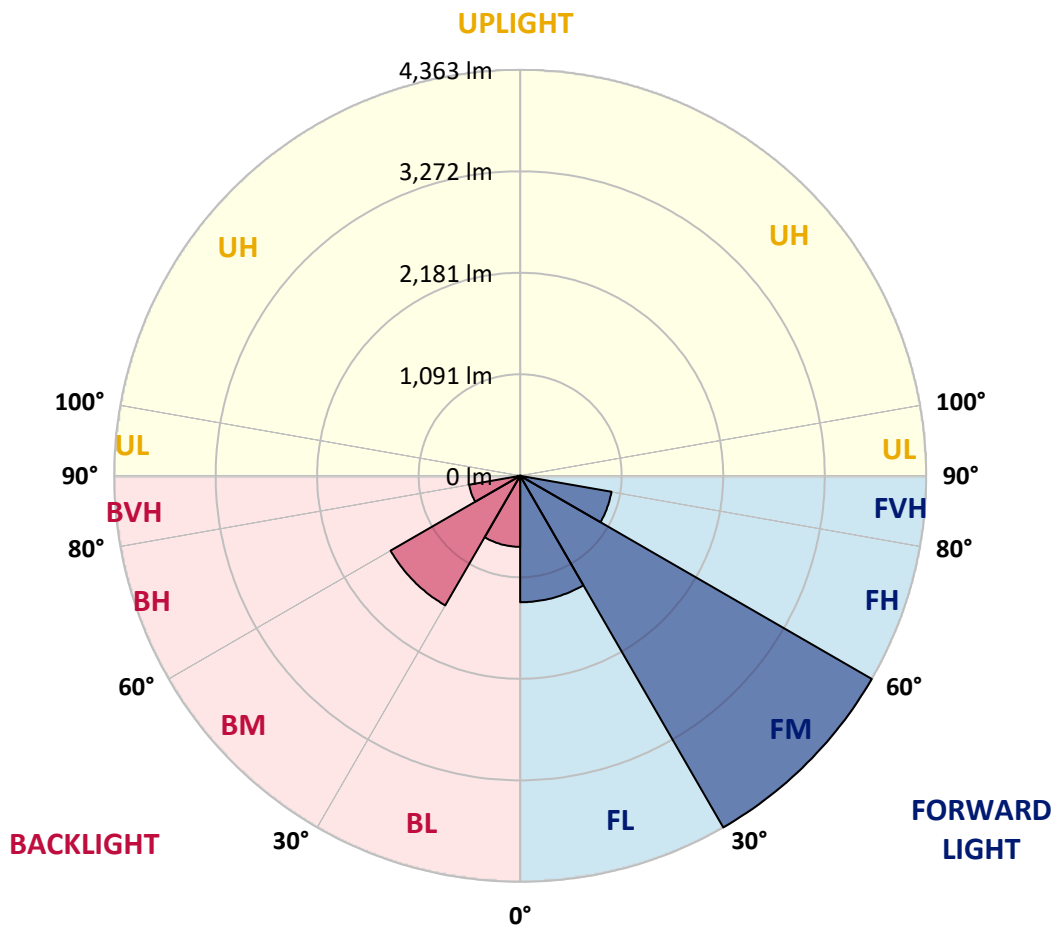


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.7	14.0			
FM (30°-60°)	4362.9	45.0			
FH (60°-80°)	995.9	10.3			G1/1800
FVH (80°-90°)	16.5	0.2			G1/100
BL (0°-30°)	763.2	7.9	B2/1000		
BM (30°-60°)	1608.3	16.6	B2/2500		
BH (60°-80°)	556.4	5.7	B2/1000		G2/1000
BVH (80°-90°)	28.1	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°	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5
2.5°	4536.1	4510.7	4533.3	4640.8	4703.1	4745.5	4772.4	4768.2	4666.3	4567.3	4567.3
5°	4403.1	4370.6	4417.3	4660.6	4905.4	4926.6	4962.0	4904.0	4754.0	4572.9	4346.5
7.5°	4018.3	4042.3	4120.2	4439.9	4758.3	4918.2	4960.6	4887.0	4643.7	4305.5	3973.0
10°	3685.8	3742.4	3922.1	4267.3	4560.2	4768.2	4814.9	4711.6	4519.2	4104.6	3807.5
12.5°	3571.2	3535.8	3735.3	4080.5	4360.7	4472.5	4493.7	4500.8	4370.6	4002.7	3640.5
15°	3557.0	3579.7	3735.3	3997.1	4169.7	4175.3	4210.7	4265.9	4282.9	4072.1	3718.3
17.5°	3760.8	3733.9	3893.8	4101.8	4019.7	3937.6	3946.1	4025.4	4165.4	4131.5	3963.1
20°	4062.1	4123.0	4248.9	4227.7	4007.0	3799.0	3800.4	3875.4	4151.3	4377.7	4304.1
22.5°	4563.0	4622.4	4715.8	4459.7	4007.0	3757.9	3709.8	3811.7	4241.8	4670.6	4688.9
25°	5020.0	5129.0	5154.4	4853.1	4207.9	3796.2	3765.0	3865.5	4332.4	4956.4	5130.4
27.5°	5436.0	5475.6	5587.4	5106.3	4319.7	3821.6	3818.8	3947.5	4447.0	5099.3	5525.1
30°	5764.3	5760.0	5823.7	5266.2	4497.9	3964.5	3827.3	4070.6	4597.0	5335.6	5890.2
32.5°	5987.8	6035.9	6170.3	5488.4	4572.9	4100.4	3992.8	4215.0	4779.5	5447.3	6147.7
35°	6381.2	6464.6	6294.8	5611.5	4810.6	4234.8	4108.8	4411.6	4870.1	5569.0	6463.2
37.5°	6751.9	6688.2	6515.6	5678.0	4964.8	4483.8	4366.4	4792.2	5151.6	5833.6	6672.6
40°	6989.6	6988.1	6681.1	5731.7	5073.8	4864.4	4857.3	5178.5	5496.8	6000.5	6907.5
42.5°	7092.8	7191.9	6749.0	5726.1	5303.0	5325.6	5468.6	5755.8	5741.6	6034.5	6901.8
44°	7234.3	7293.8	6866.5	5738.8	5455.8	5636.9	5973.7	6156.2	5955.3	6016.1	6894.8
45°	7228.7	7232.9	6699.5	5755.8	5586.0	5897.3	6198.6	6507.1	6143.5	5976.5	6988.1
47.5°	7063.1	7015.0	6558.0	5629.8	5992.1	6584.9	6863.6	7050.4	6375.5	5891.6	6872.1
50°	6736.3	6681.1	6214.2	5576.1	6077.0	7012.2	7397.0	7465.0	6586.3	5808.1	6757.5
52.5°	6758.9	6743.4	6311.8	5656.7	6161.8	7146.6	7763.5	7780.5	6825.4	5983.6	6758.9
55°	7163.6	7109.8	6592.0	5757.2	6099.6	6989.6	7530.0	7500.3	6744.8	5877.5	6883.4
57.5°	6555.2	6590.6	6204.3	5359.6	5338.4	5682.2	5919.9	5846.3	5628.4	5304.4	6403.8
60°	5288.9	5389.3	5426.1	4482.4	4028.2	3851.3	3780.6	3650.4	3687.2	4357.9	5625.6
62.5°	4536.1	4530.5	4761.1	4063.6	2638.8	2269.5	2235.5	2265.2	2689.7	4289.9	5509.6
65°	3596.7	3692.9	3763.6	3443.8	2088.4	1685.1	1683.7	1871.9	2327.5	3585.3	4448.4
67.5°	2283.6	2409.6	2497.3	2203.0	1396.5	1199.8	1167.3	1393.7	1613.0	2351.5	2678.4
70°	1287.6	1347.0	1386.6	1270.6	888.6	622.6	585.8	639.5	974.9	1522.4	1587.5
72.5°	496.6	523.5	577.3	581.5	335.3	200.9	162.7	195.3	410.3	602.7	574.4
75°	76.4	82.1	116.0	138.7	96.2	73.6	77.8	80.6	114.6	155.6	130.2
77.5°	36.8	36.8	35.4	41.0	48.1	52.4	56.6	62.3	67.9	75.0	72.2
80°	24.1	24.1	24.1	28.3	35.4	42.4	48.1	50.9	53.8	59.4	56.6
82.5°	15.6	15.6	15.6	21.2	28.3	35.4	38.2	45.3	50.9	59.4	55.2
85°	8.5	8.5	8.5	14.1	21.2	29.7	28.3	22.6	12.7	1.4	2.8
87.5°	2.8	2.8	2.8	2.8	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°	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5
2.5°	4448.4	4383.3	4377.7	4244.7	4125.8	4067.8	4021.1	3890.9	3919.2	3844.3	3842.8
5°	4233.4	4100.4	3885.3	3708.4	3531.6	3496.2	3342.0	3207.6	3211.8	3115.6	3132.6
7.5°	3847.1	3755.1	3493.4	3216.0	2981.2	2814.2	2668.5	2580.8	2469.0	2430.8	2411.0
10°	3602.3	3489.1	3194.8	2846.8	2583.6	2494.5	2354.4	2276.6	2162.0	2105.4	2065.7
12.5°	3494.8	3329.2	2961.4	2607.6	2432.2	2340.2	2221.4	2079.9	1944.1	1891.7	1819.5
15°	3506.1	3308.0	2893.5	2511.4	2300.6	2122.3	2016.2	1859.2	1720.5	1628.5	1576.2
17.5°	3677.3	3436.8	2924.6	2437.9	2135.1	1911.5	1703.5	1533.7	1423.4	1354.0	1337.1
20°	4082.0	3755.1	2976.9	2319.0	1969.5	1690.8	1434.7	1257.8	1172.9	1171.5	1172.9
22.5°	4418.7	4094.7	3083.0	2248.3	1804.0	1407.8	1153.1	1096.5	1079.6	1114.9	1119.2
25°	4872.9	4476.7	3265.6	2211.5	1651.2	1199.8	1042.8	1021.6	1020.1	1065.4	1066.8
27.5°	5338.4	4810.6	3374.5	2103.9	1495.5	1092.3	976.3	972.0	994.7	1042.8	1038.5
30°	5655.3	5090.8	3571.2	1975.2	1311.6	997.5	949.4	955.1	986.2	1023.0	1028.6
32.5°	6024.6	5366.7	3622.1	1904.4	1198.4	918.3	884.3	897.0	936.7	994.7	1025.8
35°	6447.7	5561.9	3699.9	1808.2	1156.0	857.4	840.4	854.6	902.7	940.9	974.9
37.5°	6760.3	5907.2	3714.1	1733.2	1109.3	823.5	796.6	843.3	871.6	925.3	942.3
40°	6992.4	6157.6	3750.9	1686.5	1072.5	779.6	779.6	810.7	848.9	898.5	932.4
42.5°	7141.0	6340.1	3777.8	1644.1	1001.7	766.9	759.8	790.9	841.9	890.0	905.5
44°	7231.5	6417.9	3750.9	1604.5	981.9	751.3	751.3	778.2	817.8	874.4	892.8
45°	7254.1	6515.6	3691.4	1603.1	957.9	732.9	730.1	781.0	807.9	877.2	888.6
47.5°	7341.9	6635.8	3698.5	1557.8	899.9	689.1	738.6	761.2	785.3	846.1	884.3
50°	7339.0	6710.8	3683.0	1491.3	857.4	639.5	721.6	747.1	771.1	833.4	848.9
52.5°	7358.8	6991.0	3825.9	1385.2	781.0	575.9	665.0	721.6	751.3	803.7	836.2
55°	7348.9	7150.9	3967.4	1305.9	673.5	537.7	616.9	683.4	725.8	781.0	796.6
57.5°	6712.2	6320.3	3671.6	1157.4	557.5	492.4	549.0	643.8	697.5	754.1	773.9
60°	5484.1	4871.5	3027.9	851.8	458.4	452.8	510.8	631.0	653.7	703.2	737.2
62.5°	5068.1	4273.0	2401.1	650.8	391.9	414.6	471.2	570.2	605.6	666.4	697.5
65°	3965.9	2838.3	1487.0	440.0	345.2	372.1	425.9	499.5	557.5	614.1	650.8
67.5°	2348.7	1550.7	735.7	308.4	301.4	329.7	384.9	440.0	506.5	568.8	587.2
70°	1279.1	762.6	314.1	234.9	256.1	281.6	335.3	373.5	437.2	485.3	516.4
72.5°	410.3	232.0	157.1	174.0	195.3	225.0	257.5	304.2	349.5	377.8	403.2
75°	99.0	97.6	111.8	121.7	141.5	164.1	191.0	215.1	250.4	277.3	300.0
77.5°	69.3	75.0	86.3	100.5	107.5	116.0	133.0	151.4	167.0	186.8	200.9
80°	53.8	58.0	66.5	73.6	80.6	87.7	96.2	103.3	113.2	125.9	133.0
82.5°	50.9	53.8	62.3	66.5	63.7	62.3	67.9	70.7	72.2	76.4	80.6
85°	4.2	0.0	2.8	9.9	24.1	35.4	38.2	38.2	36.8	39.6	39.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.7	4.2
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°	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5
2.5°	3825.9	3777.8	3796.2	3818.8	3786.2	3711.3	3731.1	3722.6	3799.0	3793.3	3869.7
5°	3207.6	3132.6	3141.1	3251.4	3216.0	3254.2	3177.8	3167.9	3182.1	3189.2	3201.9
7.5°	2454.8	2444.9	2529.8	2623.2	2667.1	2621.8	2546.8	2529.8	2514.3	2483.1	2553.9
10°	2003.5	2006.3	2000.7	2071.4	2120.9	2111.0	2065.7	2060.1	2030.4	2019.0	2058.7
12.5°	1788.4	1750.2	1731.8	1709.2	1747.4	1772.9	1753.0	1738.9	1740.3	1754.5	1760.1
15°	1580.4	1556.4	1516.8	1491.3	1509.7	1497.0	1489.9	1518.2	1511.1	1508.3	1542.2
17.5°	1347.0	1366.8	1364.0	1335.7	1359.7	1349.8	1348.4	1328.6	1301.7	1281.9	1293.2
20°	1192.8	1229.5	1257.8	1259.3	1272.0	1270.6	1249.3	1188.5	1168.7	1164.5	1167.3
22.5°	1137.6	1157.4	1191.3	1239.4	1239.4	1216.8	1191.3	1120.6	1102.2	1082.4	1073.9
25°	1093.7	1131.9	1175.8	1181.4	1204.1	1182.8	1141.8	1106.4	1068.2	1041.4	1041.4
27.5°	1071.1	1113.5	1146.1	1156.0	1187.1	1170.1	1127.7	1082.4	1037.1	1035.7	1011.6
30°	1061.2	1100.8	1122.0	1146.1	1160.2	1133.3	1120.6	1072.5	1027.2	1015.9	976.3
32.5°	1031.5	1088.1	1127.7	1122.0	1133.3	1122.0	1103.6	1064.0	1013.1	987.6	983.3
35°	997.5	1054.1	1096.5	1126.3	1133.3	1109.3	1098.0	1044.2	974.9	962.1	918.3
37.5°	979.1	1013.1	1065.4	1113.5	1123.4	1110.7	1072.5	1017.3	948.0	933.8	895.6
40°	956.5	1000.3	1041.4	1081.0	1110.7	1079.6	1035.7	981.9	950.8	908.4	897.0
42.5°	939.5	989.0	1023.0	1066.8	1100.8	1059.8	1008.8	972.0	928.2	899.9	867.3
44°	933.8	979.1	1001.7	1055.5	1083.8	1052.7	1010.2	972.0	921.1	895.6	867.3
45°	914.0	976.3	1000.3	1048.4	1072.5	1047.0	993.3	955.1	918.3	887.1	857.4
47.5°	894.2	936.7	977.7	1015.9	1032.9	1024.4	979.1	932.4	888.6	870.2	841.9
50°	888.6	931.0	969.2	1004.6	1024.4	1007.4	966.4	921.1	870.2	840.4	816.4
52.5°	860.3	912.6	955.1	966.4	991.8	981.9	950.8	901.3	853.2	827.7	807.9
55°	819.2	874.4	932.4	946.6	983.3	967.8	921.1	874.4	833.4	795.2	769.7
57.5°	803.7	857.4	914.0	932.4	955.1	929.6	918.3	868.7	803.7	783.8	744.2
60°	764.0	832.0	878.6	921.1	922.5	915.4	895.6	839.0	785.3	748.5	720.2
62.5°	732.9	796.6	833.4	873.0	897.0	877.2	857.4	805.1	747.1	706.0	673.5
65°	687.6	745.6	776.8	800.8	827.7	824.9	790.9	752.7	691.9	659.3	628.2
67.5°	618.3	669.2	711.7	734.3	751.3	747.1	721.6	694.7	632.5	599.9	577.3
70°	534.8	587.2	614.1	626.8	643.8	652.3	632.5	619.7	564.5	522.1	500.9
72.5°	430.1	464.1	503.7	515.0	522.1	527.8	527.8	516.4	459.8	442.9	406.1
75°	316.9	343.8	373.5	373.5	386.3	387.7	390.5	383.4	341.0	318.4	309.9
77.5°	215.1	234.9	258.9	268.8	277.3	275.9	274.5	254.7	232.0	222.1	213.6
80°	140.1	159.9	171.2	183.9	192.4	191.0	193.8	179.7	169.8	152.8	155.6
82.5°	83.5	99.0	110.4	125.9	125.9	130.2	130.2	125.9	116.0	107.5	107.5
85°	39.6	52.4	59.4	69.3	75.0	76.4	67.9	58.0	48.1	43.9	48.1
87.5°	7.1	9.9	14.1	12.7	15.6	14.1	14.1	14.1	14.1	11.3	12.7
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: P527690

CATALOG NUMBER: GALN-SA2D-727-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5
2.5°	3841.4	3912.2	3961.7	4043.8	4185.2	4298.4	4414.5	4500.8	4510.7	4536.1
5°	3248.6	3286.8	3412.7	3576.8	3692.9	3883.9	4007.0	4230.5	4314.0	4403.1
7.5°	2536.9	2599.2	2767.5	2877.9	3132.6	3371.7	3619.3	3895.2	4005.6	4018.3
10°	2139.3	2229.9	2344.5	2521.3	2660.0	2926.0	3234.4	3541.5	3664.6	3685.8
12.5°	1879.0	1995.0	2147.8	2275.1	2408.1	2640.2	2935.9	3315.1	3475.0	3571.2
15°	1628.5	1748.8	1917.2	2094.0	2211.5	2488.8	2836.9	3264.2	3472.1	3557.0
17.5°	1371.0	1482.8	1621.5	1812.5	2048.8	2360.0	2821.3	3433.9	3661.7	3760.8
20°	1150.3	1212.6	1373.9	1570.5	1866.2	2228.5	2827.0	3684.4	4018.3	4062.1
22.5°	1064.0	1078.1	1141.8	1322.9	1646.9	2094.0	2927.4	4039.5	4418.7	4563.0
25°	997.5	994.7	1011.6	1133.3	1487.0	2041.7	3026.5	4366.4	4863.0	5020.0
27.5°	960.7	932.4	933.8	1048.4	1373.9	1956.8	3153.8	4741.3	5366.7	5436.0
30°	942.3	936.7	919.7	966.4	1250.8	1829.5	3175.0	5110.6	5663.8	5764.3
32.5°	931.0	875.8	854.6	871.6	1134.7	1690.8	3254.2	5353.9	6031.7	5987.8
35°	874.4	824.9	810.7	827.7	1052.7	1613.0	3201.9	5566.2	6307.6	6381.2
37.5°	853.2	809.3	781.0	766.9	976.3	1547.9	3175.0	5893.0	6575.0	6751.9
40°	833.4	786.7	752.7	738.6	916.8	1461.6	3166.5	6144.9	6883.4	6989.6
42.5°	810.7	781.0	742.8	717.3	844.7	1375.3	3068.9	6222.7	6978.2	7092.8
44°	803.7	758.4	718.8	710.3	816.4	1331.4	3049.1	6293.4	7060.3	7234.3
45°	796.6	754.1	708.9	697.5	806.5	1307.4	3022.2	6310.4	7196.1	7228.7
47.5°	776.8	749.9	706.0	674.9	785.3	1255.0	2941.6	6214.2	7057.5	7063.1
50°	761.2	730.1	684.8	624.0	757.0	1211.1	2978.3	6178.8	6723.6	6736.3
52.5°	744.2	697.5	672.1	567.4	710.3	1174.4	3056.2	6338.7	6761.8	6758.9
55°	724.4	673.5	611.2	519.3	632.5	1127.7	3244.3	6654.2	7115.5	7163.6
57.5°	693.3	649.4	560.3	476.8	543.3	1038.5	3183.5	6050.1	6546.7	6555.2
60°	652.3	611.2	507.9	444.3	445.7	819.2	2846.8	4714.4	5165.8	5288.9
62.5°	612.6	590.0	464.1	397.6	379.2	652.3	2406.7	3917.8	4434.3	4536.1
65°	566.0	510.8	425.9	362.2	325.4	457.0	1704.9	2927.4	3459.4	3596.7
67.5°	506.5	447.1	374.9	318.4	278.7	305.6	880.1	1663.9	2203.0	2283.6
70°	442.9	387.7	315.5	268.8	225.0	210.8	387.7	793.8	1204.1	1287.6
72.5°	363.6	312.7	251.9	212.2	168.4	145.7	130.2	212.2	427.3	496.6
75°	263.2	227.8	189.6	151.4	118.9	93.4	76.4	63.7	70.7	76.4
77.5°	193.8	165.5	140.1	107.5	83.5	66.5	52.4	39.6	38.2	36.8
80°	151.4	134.4	111.8	86.3	65.1	49.5	36.8	26.9	24.1	24.1
82.5°	118.9	110.4	92.0	70.7	53.8	39.6	26.9	18.4	15.6	15.6
85°	45.3	45.3	66.5	58.0	41.0	28.3	18.4	9.9	8.5	8.5
87.5°	11.3	11.3	11.3	11.3	9.9	8.5	8.5	4.2	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)