

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: P527742

Luminaire Tested: **GALN-SA2D-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527742
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-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 10793 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

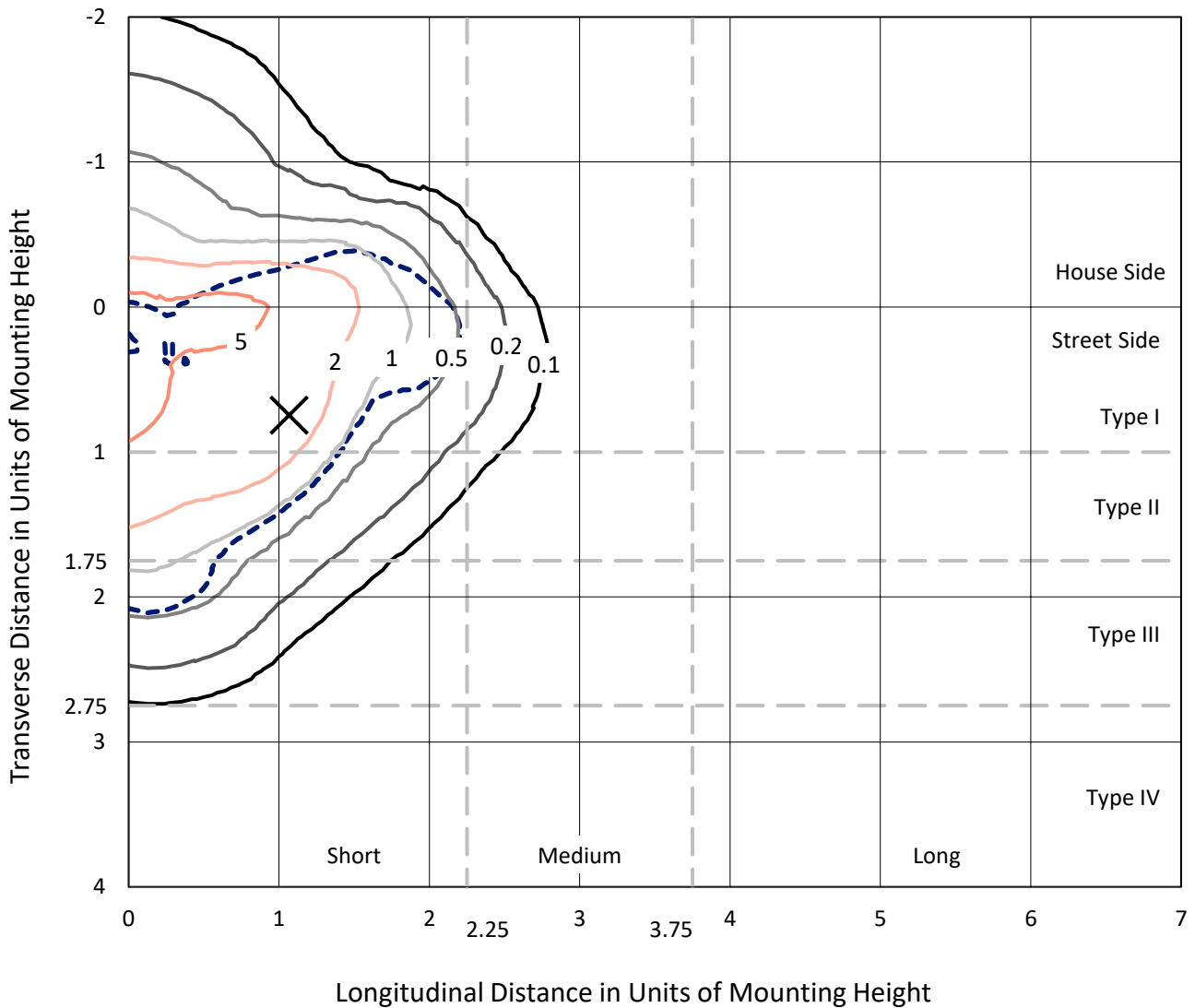
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

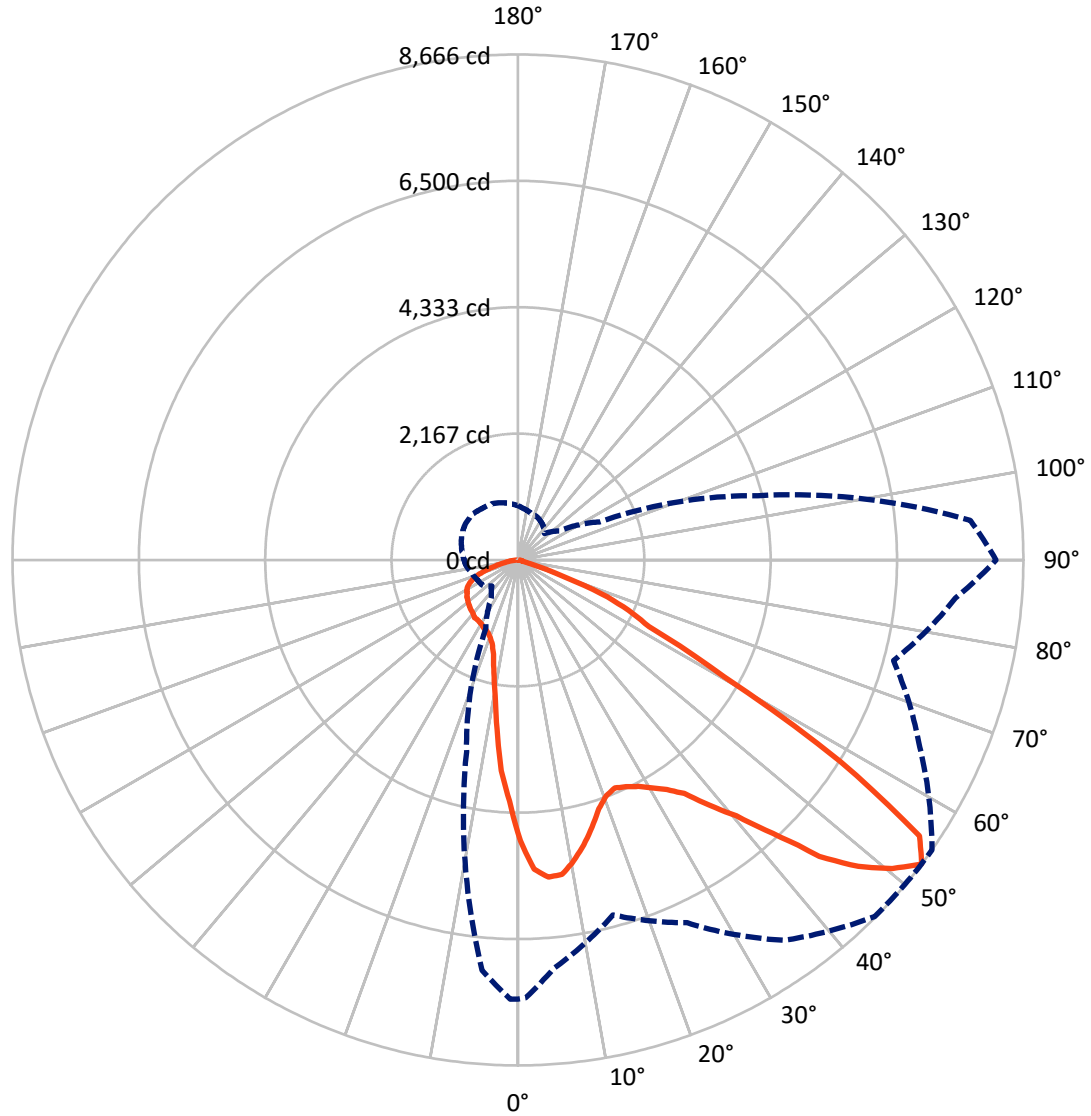
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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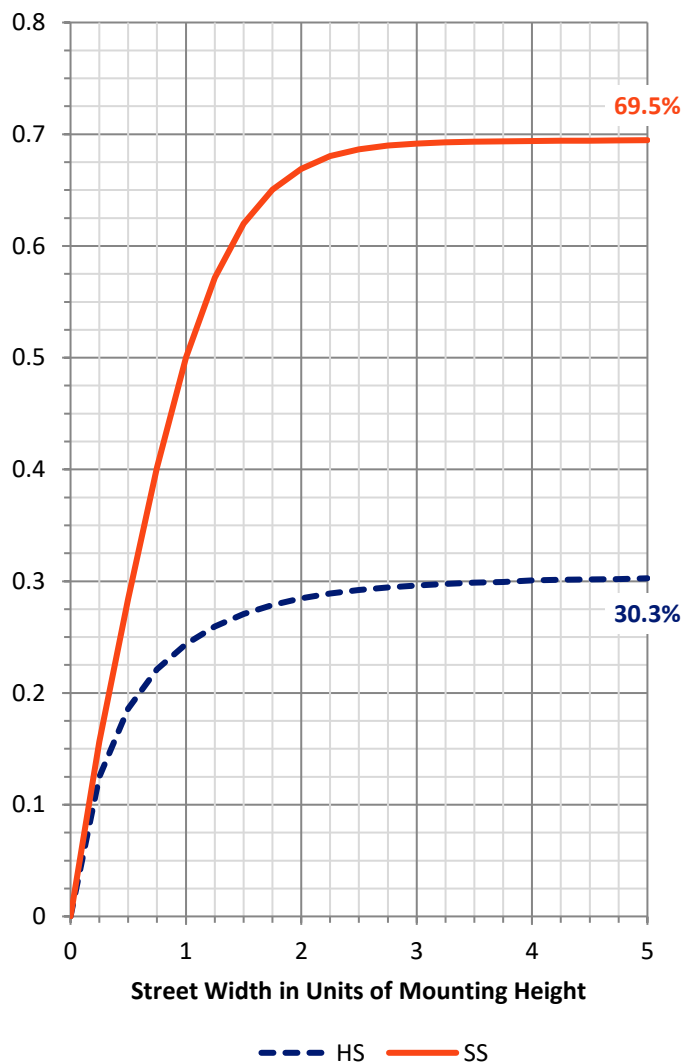
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3292.4	0.0	3292.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7500.5	0.0	7500.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	10793.0	0.0	10793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	3.4
10°-20°	793.1	7.3
20°-30°	1202.5	11.1
30°-40°	1737.5	16.1
40°-50°	2321.8	21.5
50°-60°	2591.6	24.0
60°-70°	1421.6	13.2
70°-80°	307.3	2.8
80°-90°	49.7	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°	10793.0	100.0
0°-180°	10793.0	100.0

Coefficient of Utilization



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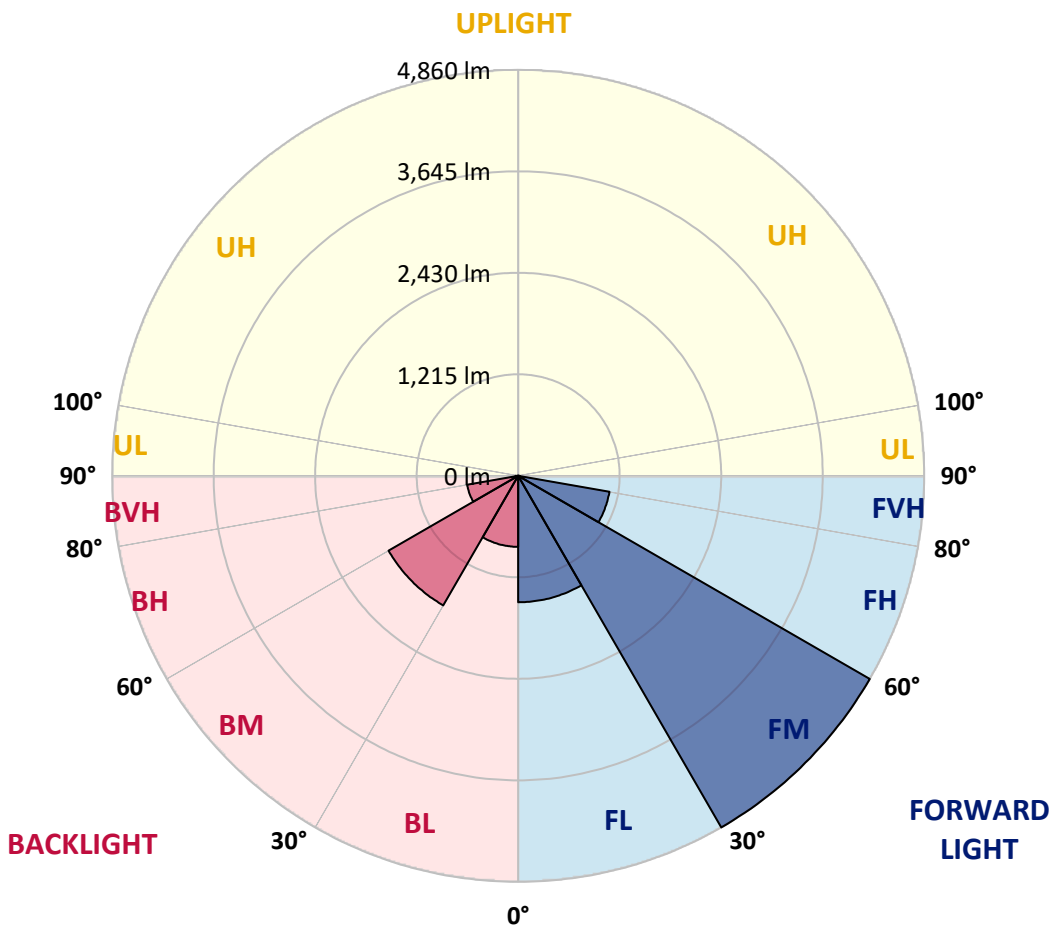
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.4	14.0			
FM (30°-60°)	4859.5	45.0			
FH (60°-80°)	1109.2	10.3			G1/1800
FVH (80°-90°)	18.4	0.2			G1/100
BL (0°-30°)	850.1	7.9	B2/1000		
BM (30°-60°)	1791.4	16.6	B2/2500		
BH (60°-80°)	619.7	5.7	B2/1000		G2/1000
BVH (80°-90°)	31.3	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°	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5
2.5°	5052.5	5024.1	5049.3	5169.1	5238.4	5285.7	5315.7	5310.9	5197.5	5087.2	5087.2
5°	4904.3	4868.1	4920.1	5191.2	5463.8	5487.4	5526.8	5462.2	5295.2	5093.5	4841.3
7.5°	4475.7	4502.5	4589.2	4945.3	5299.9	5478.0	5525.3	5443.3	5172.3	4795.6	4425.3
10°	4105.3	4168.4	4368.5	4753.1	5079.3	5310.9	5362.9	5247.9	5033.6	4571.8	4240.9
12.5°	3977.7	3938.3	4160.5	4545.0	4857.1	4981.6	5005.2	5013.1	4868.1	4458.3	4054.9
15°	3961.9	3987.1	4160.5	4452.0	4644.3	4650.6	4690.0	4751.5	4770.4	4535.6	4141.6
17.5°	4188.9	4158.9	4337.0	4568.7	4477.3	4385.9	4395.3	4483.6	4639.6	4601.8	4414.2
20°	4524.5	4592.3	4732.6	4708.9	4463.1	4231.4	4233.0	4316.5	4623.8	4876.0	4794.0
22.5°	5082.4	5148.6	5252.6	4967.4	4463.1	4185.7	4132.1	4245.6	4724.7	5202.2	5222.7
25°	5591.5	5712.8	5741.2	5405.5	4686.9	4228.3	4193.6	4305.5	4825.5	5520.5	5714.4
27.5°	6054.8	6098.9	6223.4	5687.6	4811.4	4256.6	4253.5	4396.9	4953.2	5679.7	6154.1
30°	6420.4	6415.7	6486.6	5865.7	5009.9	4415.8	4262.9	4534.0	5120.2	5942.9	6560.7
32.5°	6669.4	6723.0	6872.7	6113.1	5093.5	4567.1	4447.3	4694.7	5323.5	6067.4	6847.5
35°	7107.5	7200.5	7011.4	6250.2	5358.2	4716.8	4576.5	4913.8	5424.4	6202.9	7198.9
37.5°	7520.4	7449.5	7257.2	6324.3	5530.0	4994.2	4863.4	5337.7	5738.0	6497.6	7432.2
40°	7785.2	7783.6	7441.6	6384.2	5651.3	5418.1	5410.2	5768.0	6122.5	6683.6	7693.8
42.5°	7900.2	8010.5	7517.3	6377.9	5906.6	5931.9	6091.0	6410.9	6395.2	6721.4	7687.5
44°	8057.8	8124.0	7648.1	6392.0	6076.8	6278.6	6653.6	6856.9	6633.2	6700.9	7679.6
45°	8051.5	8056.2	7462.1	6410.9	6221.8	6568.5	6904.2	7247.8	6842.8	6656.8	7783.6
47.5°	7867.1	7813.5	7304.5	6270.7	6674.1	7334.4	7644.9	7852.9	7101.2	6562.2	7654.4
50°	7503.1	7441.6	6921.6	6210.8	6768.7	7810.4	8239.0	8314.7	7336.0	6469.3	7526.7
52.5°	7528.3	7511.0	7030.3	6300.6	6863.2	7960.1	8647.2	8666.1	7602.4	6664.7	7528.3
55°	7979.0	7919.1	7342.3	6412.5	6793.9	7785.2	8387.2	8354.1	7512.5	6546.5	7667.0
57.5°	7301.4	7340.8	6910.5	5969.7	5946.0	6329.0	6593.8	6511.8	6269.1	5908.2	7132.7
60°	5890.9	6002.8	6043.8	4992.6	4486.7	4289.7	4210.9	4065.9	4106.9	4853.9	6266.0
62.5°	5052.5	5046.2	5303.1	4526.1	2939.1	2527.8	2490.0	2523.1	2995.9	4778.3	6136.7
65°	4006.1	4113.2	4192.0	3835.9	2326.1	1877.0	1875.4	2085.0	2592.4	3993.4	4954.8
67.5°	2543.6	2683.8	2781.5	2453.7	1555.5	1336.4	1300.2	1552.3	1796.6	2619.2	2983.3
70°	1434.1	1500.3	1544.4	1415.2	989.7	693.4	652.4	712.3	1085.8	1695.7	1768.2
72.5°	553.2	583.1	643.0	647.7	373.5	223.8	181.2	217.5	457.0	671.4	639.8
75°	85.1	91.4	129.2	154.4	107.2	81.9	86.7	89.8	127.7	173.4	145.0
77.5°	41.0	41.0	39.4	45.7	53.6	58.3	63.0	69.3	75.6	83.5	80.4
80°	26.8	26.8	26.8	31.5	39.4	47.3	53.6	56.7	59.9	66.2	63.0
82.5°	17.3	17.3	17.3	23.6	31.5	39.4	42.6	50.4	56.7	66.2	61.5
85°	9.5	9.5	9.5	15.8	23.6	33.1	31.5	25.2	14.2	1.6	3.2
87.5°	3.2	3.2	3.2	3.2	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°	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5
2.5°	4954.8	4882.3	4876.0	4727.8	4595.5	4530.8	4478.8	4333.8	4365.4	4281.8	4280.3
5°	4715.2	4567.1	4327.5	4130.6	3933.6	3894.2	3722.4	3572.7	3577.4	3470.2	3489.1
7.5°	4285.0	4182.6	3891.0	3582.1	3320.5	3134.6	2972.2	2874.5	2750.0	2707.5	2685.4
10°	4012.4	3886.3	3558.5	3170.8	2877.7	2778.4	2622.4	2535.7	2408.0	2345.0	2300.9
12.5°	3892.6	3708.2	3298.5	2904.5	2709.0	2606.6	2474.2	2316.6	2165.3	2107.0	2026.7
15°	3905.2	3684.6	3222.8	2797.3	2562.5	2363.9	2245.7	2070.8	1916.3	1813.9	1755.6
17.5°	4095.9	3828.0	3257.5	2715.4	2378.1	2129.1	1897.4	1708.3	1585.4	1508.2	1489.3
20°	4546.6	4182.6	3315.8	2583.0	2193.7	1883.3	1598.0	1401.0	1306.5	1304.9	1306.5
22.5°	4921.7	4560.8	3434.0	2504.2	2009.3	1568.1	1284.4	1221.4	1202.4	1241.8	1246.6
25°	5427.6	4986.3	3637.3	2463.2	1839.1	1336.4	1161.5	1137.8	1136.3	1186.7	1188.3
27.5°	5946.0	5358.2	3758.6	2343.4	1665.8	1216.6	1087.4	1082.7	1107.9	1161.5	1156.7
30°	6299.1	5670.3	3977.7	2200.0	1460.9	1111.0	1057.5	1063.8	1098.4	1139.4	1145.7
32.5°	6710.4	5977.6	4034.4	2121.2	1334.8	1022.8	985.0	999.1	1043.3	1107.9	1142.6
35°	7181.6	6195.0	4121.1	2014.1	1287.5	955.0	936.1	951.9	1005.5	1048.0	1085.8
37.5°	7529.9	6579.6	4136.9	1930.5	1235.5	917.2	887.3	939.3	970.8	1030.7	1049.6
40°	7788.3	6858.5	4177.8	1878.5	1194.6	868.3	868.3	903.0	945.6	1000.7	1038.5
42.5°	7953.8	7061.8	4207.8	1831.2	1115.8	854.2	846.3	881.0	937.7	991.3	1008.6
44°	8054.7	7148.5	4177.8	1787.1	1093.7	836.8	836.8	866.8	910.9	973.9	994.4
45°	8079.9	7257.2	4111.6	1785.5	1066.9	816.3	813.2	869.9	899.9	977.1	989.7
47.5°	8177.6	7391.2	4119.5	1735.1	1002.3	767.5	822.6	847.9	874.6	942.4	985.0
50°	8174.4	7474.7	4102.2	1661.0	955.0	712.3	803.7	832.1	858.9	928.2	945.6
52.5°	8196.5	7786.7	4261.4	1542.9	869.9	641.4	740.7	803.7	836.8	895.1	931.4
55°	8185.5	7964.8	4419.0	1454.6	750.1	598.9	687.1	761.2	808.5	869.9	887.3
57.5°	7476.3	7039.7	4089.6	1289.1	620.9	548.4	611.5	717.1	776.9	840.0	862.0
60°	6108.4	5426.0	3372.5	948.7	510.6	504.3	568.9	702.9	728.1	783.2	821.1
62.5°	5645.0	4759.4	2674.4	724.9	436.5	461.8	524.8	635.1	674.5	742.3	776.9
65°	4417.4	3161.3	1656.3	490.1	384.5	414.5	474.4	556.3	620.9	684.0	724.9
67.5°	2616.1	1727.2	819.5	343.6	335.7	367.2	428.7	490.1	564.2	633.5	654.0
70°	1424.7	849.4	349.9	261.6	285.2	313.6	373.5	416.0	487.0	540.5	575.2
72.5°	457.0	258.5	174.9	193.8	217.5	250.6	286.8	338.8	389.3	420.8	449.1
75°	110.3	108.7	124.5	135.5	157.6	182.8	212.8	239.5	278.9	308.9	334.1
77.5°	77.2	83.5	96.1	111.9	119.8	129.2	148.1	168.6	186.0	208.0	223.8
80°	59.9	64.6	74.1	81.9	89.8	97.7	107.2	115.0	126.1	140.3	148.1
82.5°	56.7	59.9	69.3	74.1	70.9	69.3	75.6	78.8	80.4	85.1	89.8
85°	4.7	0.0	3.2	11.0	26.8	39.4	42.6	42.6	41.0	44.1	44.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.3	4.7
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°	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5
2.5°	4261.4	4207.8	4228.3	4253.5	4217.2	4133.7	4155.8	4146.3	4231.4	4225.1	4310.2
5°	3572.7	3489.1	3498.6	3621.5	3582.1	3624.7	3539.6	3528.5	3544.3	3552.2	3566.4
7.5°	2734.3	2723.2	2817.8	2921.8	2970.7	2920.2	2836.7	2817.8	2800.5	2765.8	2844.6
10°	2231.5	2234.7	2228.4	2307.2	2362.3	2351.3	2300.9	2294.6	2261.5	2248.9	2293.0
12.5°	1992.0	1949.4	1929.0	1903.7	1946.3	1974.7	1952.6	1936.8	1938.4	1954.2	1960.5
15°	1760.3	1733.5	1689.4	1661.0	1681.5	1667.4	1659.5	1691.0	1683.1	1680.0	1717.8
17.5°	1500.3	1522.4	1519.2	1487.7	1514.5	1503.5	1501.9	1479.8	1449.9	1427.8	1440.4
20°	1328.5	1369.5	1401.0	1402.6	1416.8	1415.2	1391.6	1323.8	1301.7	1297.0	1300.2
22.5°	1267.1	1289.1	1326.9	1380.5	1380.5	1355.3	1326.9	1248.1	1227.7	1205.6	1196.1
25°	1218.2	1260.8	1309.6	1315.9	1341.1	1317.5	1271.8	1232.4	1189.8	1159.9	1159.9
27.5°	1193.0	1240.3	1276.5	1287.5	1322.2	1303.3	1256.0	1205.6	1155.2	1153.6	1126.8
30°	1182.0	1226.1	1249.7	1276.5	1292.3	1262.3	1248.1	1194.6	1144.1	1131.5	1087.4
32.5°	1148.9	1211.9	1256.0	1249.7	1262.3	1249.7	1229.2	1185.1	1128.4	1100.0	1095.3
35°	1111.0	1174.1	1221.4	1254.5	1262.3	1235.5	1222.9	1163.0	1085.8	1071.6	1022.8
37.5°	1090.6	1128.4	1186.7	1240.3	1251.3	1237.1	1194.6	1133.1	1055.9	1040.1	997.6
40°	1065.3	1114.2	1159.9	1204.0	1237.1	1202.4	1153.6	1093.7	1059.0	1011.8	999.1
42.5°	1046.4	1101.6	1139.4	1188.3	1226.1	1180.4	1123.6	1082.7	1033.8	1002.3	966.1
44°	1040.1	1090.6	1115.8	1175.7	1207.2	1172.5	1125.2	1082.7	1025.9	997.6	966.1
45°	1018.1	1087.4	1114.2	1167.8	1194.6	1166.2	1106.3	1063.8	1022.8	988.1	955.0
47.5°	996.0	1043.3	1089.0	1131.5	1150.4	1141.0	1090.6	1038.5	989.7	969.2	937.7
50°	989.7	1037.0	1079.5	1118.9	1141.0	1122.1	1076.4	1025.9	969.2	936.1	909.3
52.5°	958.2	1016.5	1063.8	1076.4	1104.7	1093.7	1059.0	1003.9	950.3	921.9	899.9
55°	912.5	973.9	1038.5	1054.3	1095.3	1077.9	1025.9	973.9	928.2	885.7	857.3
57.5°	895.1	955.0	1018.1	1038.5	1063.8	1035.4	1022.8	967.6	895.1	873.1	828.9
60°	851.0	926.7	978.7	1025.9	1027.5	1019.6	997.6	934.5	874.6	833.7	802.2
62.5°	816.3	887.3	928.2	972.4	999.1	977.1	955.0	896.7	832.1	786.4	750.1
65°	765.9	830.5	865.2	892.0	921.9	918.8	881.0	838.4	770.6	734.4	699.7
67.5°	688.7	745.4	792.7	817.9	836.8	832.1	803.7	773.8	704.4	668.2	643.0
70°	595.7	654.0	684.0	698.1	717.1	726.5	704.4	690.3	628.8	581.5	557.9
72.5°	479.1	516.9	561.0	573.6	581.5	587.8	587.8	575.2	512.2	493.3	452.3
75°	353.0	383.0	416.0	416.0	430.2	431.8	435.0	427.1	379.8	354.6	345.1
77.5°	239.5	261.6	288.4	299.4	308.9	307.3	305.7	283.7	258.5	247.4	238.0
80°	156.0	178.1	190.7	204.9	214.3	212.8	215.9	200.1	189.1	170.2	173.4
82.5°	93.0	110.3	122.9	140.3	140.3	145.0	145.0	140.3	129.2	119.8	119.8
85°	44.1	58.3	66.2	77.2	83.5	85.1	75.6	64.6	53.6	48.9	53.6
87.5°	7.9	11.0	15.8	14.2	17.3	15.8	15.8	15.8	15.8	12.6	14.2
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: P527742

CATALOG NUMBER: GALN-SA2D-735-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5	4814.5
2.5°	4278.7	4357.5	4412.6	4504.1	4661.6	4787.7	4916.9	5013.1	5024.1	5052.5
5°	3618.4	3660.9	3801.2	3984.0	4113.2	4326.0	4463.1	4712.1	4805.1	4904.3
7.5°	2825.7	2895.0	3082.5	3205.5	3489.1	3755.5	4031.3	4338.6	4461.5	4475.7
10°	2382.8	2483.7	2611.3	2808.3	2962.8	3259.1	3602.6	3944.6	4081.7	4105.3
12.5°	2092.9	2222.1	2392.3	2534.1	2682.3	2940.7	3270.1	3692.4	3870.5	3977.7
15°	1813.9	1947.9	2135.4	2332.4	2463.2	2772.1	3159.8	3635.7	3867.4	3961.9
17.5°	1527.1	1651.6	1806.0	2018.8	2282.0	2628.7	3142.4	3824.8	4078.5	4188.9
20°	1281.2	1350.6	1530.2	1749.3	2078.7	2482.1	3148.7	4103.8	4475.7	4524.5
22.5°	1185.1	1200.9	1271.8	1473.5	1834.4	2332.4	3260.6	4499.3	4921.7	5082.4
25°	1111.0	1107.9	1126.8	1262.3	1656.3	2274.1	3370.9	4863.4	5416.5	5591.5
27.5°	1070.1	1038.5	1040.1	1167.8	1530.2	2179.5	3512.8	5281.0	5977.6	6054.8
30°	1049.6	1043.3	1024.4	1076.4	1393.1	2037.7	3536.4	5692.3	6308.5	6420.4
32.5°	1037.0	975.5	951.9	970.8	1263.9	1883.3	3624.7	5963.4	6718.3	6669.4
35°	973.9	918.8	903.0	921.9	1172.5	1796.6	3566.4	6199.8	7025.6	7107.5
37.5°	950.3	901.4	869.9	854.2	1087.4	1724.1	3536.4	6563.8	7323.4	7520.4
40°	928.2	876.2	838.4	822.6	1021.2	1628.0	3527.0	6844.3	7667.0	7785.2
42.5°	903.0	869.9	827.4	799.0	940.8	1531.8	3418.2	6931.0	7772.6	7900.2
44°	895.1	844.7	800.6	791.1	909.3	1483.0	3396.2	7009.8	7864.0	8057.8
45°	887.3	840.0	789.5	776.9	898.3	1456.2	3366.2	7028.7	8015.3	8051.5
47.5°	865.2	835.3	786.4	751.7	874.6	1397.9	3276.4	6921.6	7860.8	7867.1
50°	847.9	813.2	762.8	695.0	843.1	1349.0	3317.4	6882.2	7488.9	7503.1
52.5°	828.9	776.9	748.6	632.0	791.1	1308.0	3404.0	7060.2	7531.4	7528.3
55°	806.9	750.1	680.8	578.4	704.4	1256.0	3613.6	7411.7	7925.4	7979.0
57.5°	772.2	723.4	624.1	531.1	605.2	1156.7	3545.9	6738.7	7291.9	7301.4
60°	726.5	680.8	565.8	494.8	496.4	912.5	3170.8	5251.0	5753.8	5890.9
62.5°	682.4	657.2	516.9	442.8	422.4	726.5	2680.7	4363.8	4939.0	5052.5
65°	630.4	568.9	474.4	403.4	362.5	509.0	1899.0	3260.6	3853.2	4006.1
67.5°	564.2	498.0	417.6	354.6	310.5	340.4	980.2	1853.3	2453.7	2543.6
70°	493.3	431.8	351.4	299.4	250.6	234.8	431.8	884.1	1341.1	1434.1
72.5°	405.0	348.3	280.5	236.4	187.5	162.3	145.0	236.4	475.9	553.2
75°	293.1	253.7	211.2	168.6	132.4	104.0	85.1	70.9	78.8	85.1
77.5°	215.9	184.4	156.0	119.8	93.0	74.1	58.3	44.1	42.6	41.0
80°	168.6	149.7	124.5	96.1	72.5	55.2	41.0	29.9	26.8	26.8
82.5°	132.4	122.9	102.4	78.8	59.9	44.1	29.9	20.5	17.3	17.3
85°	50.4	50.4	74.1	64.6	45.7	31.5	20.5	11.0	9.5	9.5
87.5°	12.6	12.6	12.6	12.6	11.0	9.5	9.5	4.7	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)