

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: P528002

Luminaire Tested: **GALN-SA3A-740-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528002
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-SA3A-740-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 10168 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

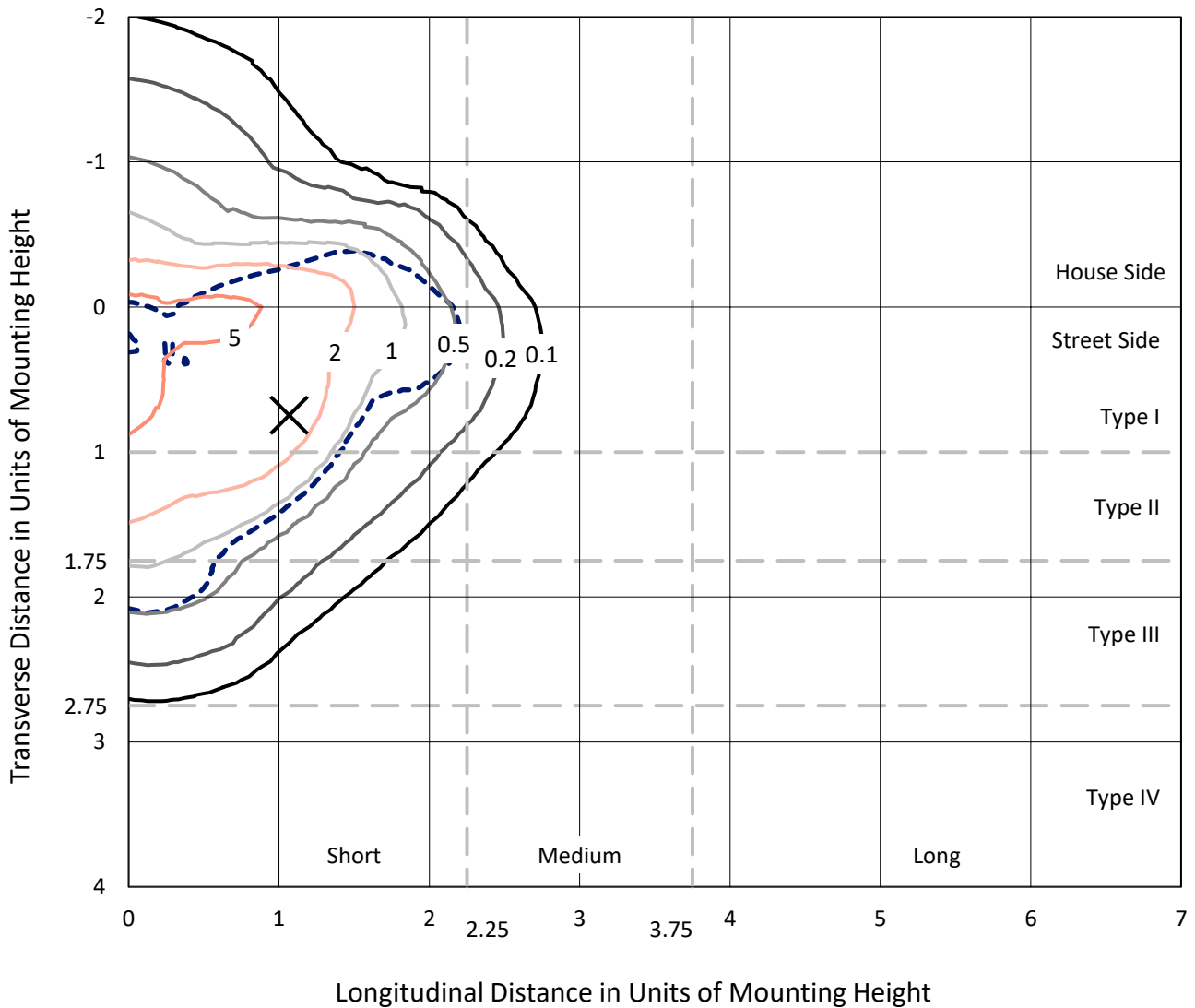
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

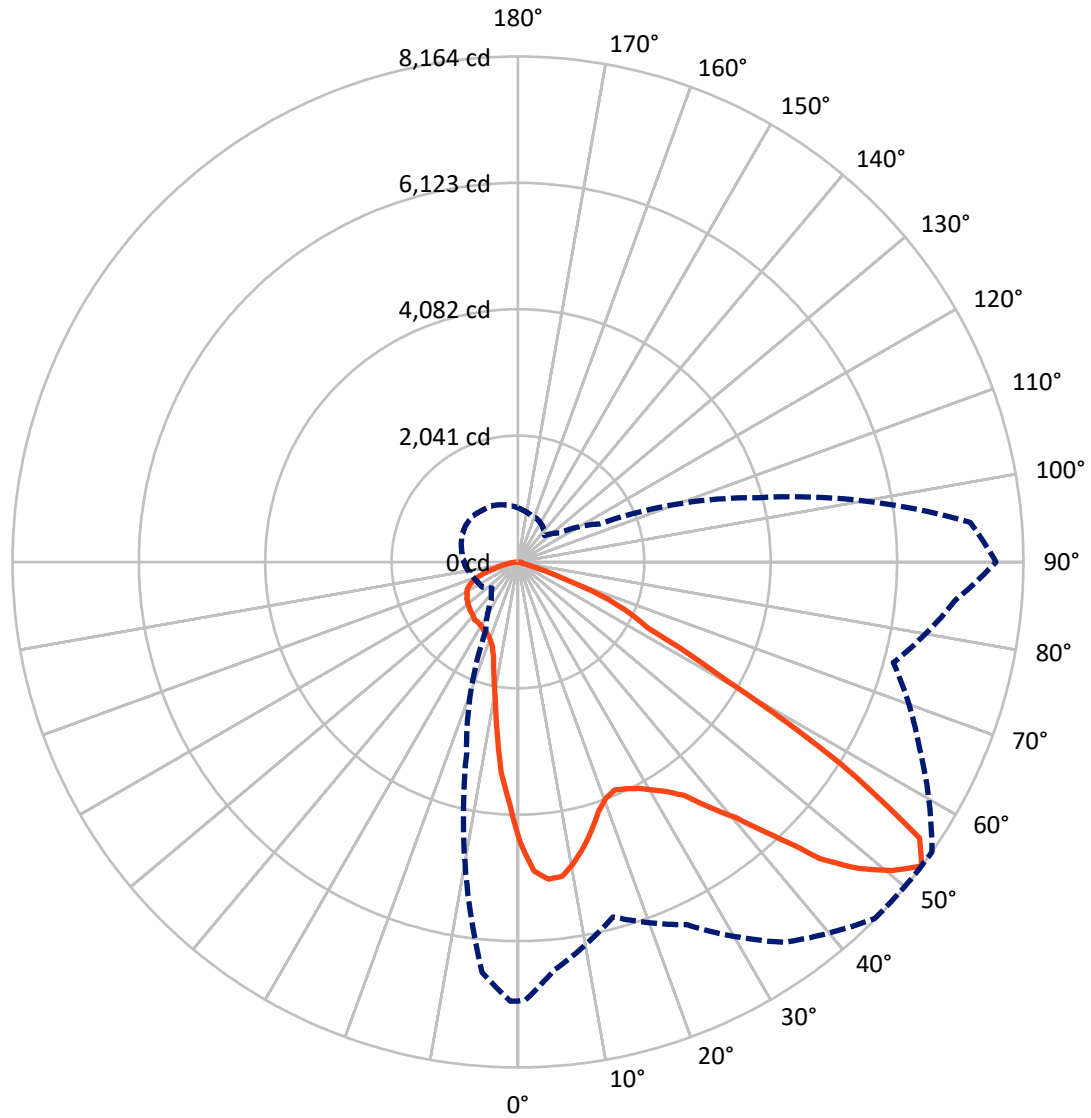
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3101.8	0.0	3101.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7066.2	0.0	7066.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	10168.0	0.0	10168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.5	3.4
10°-20°	747.1	7.3
20°-30°	1132.9	11.1
30°-40°	1636.9	16.1
40°-50°	2187.3	21.5
50°-60°	2441.5	24.0
60°-70°	1339.3	13.2
70°-80°	289.6	2.8
80°-90°	46.8	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°	10168.0	100.0
0°-180°	10168.0	100.0

Coefficient of Utilization



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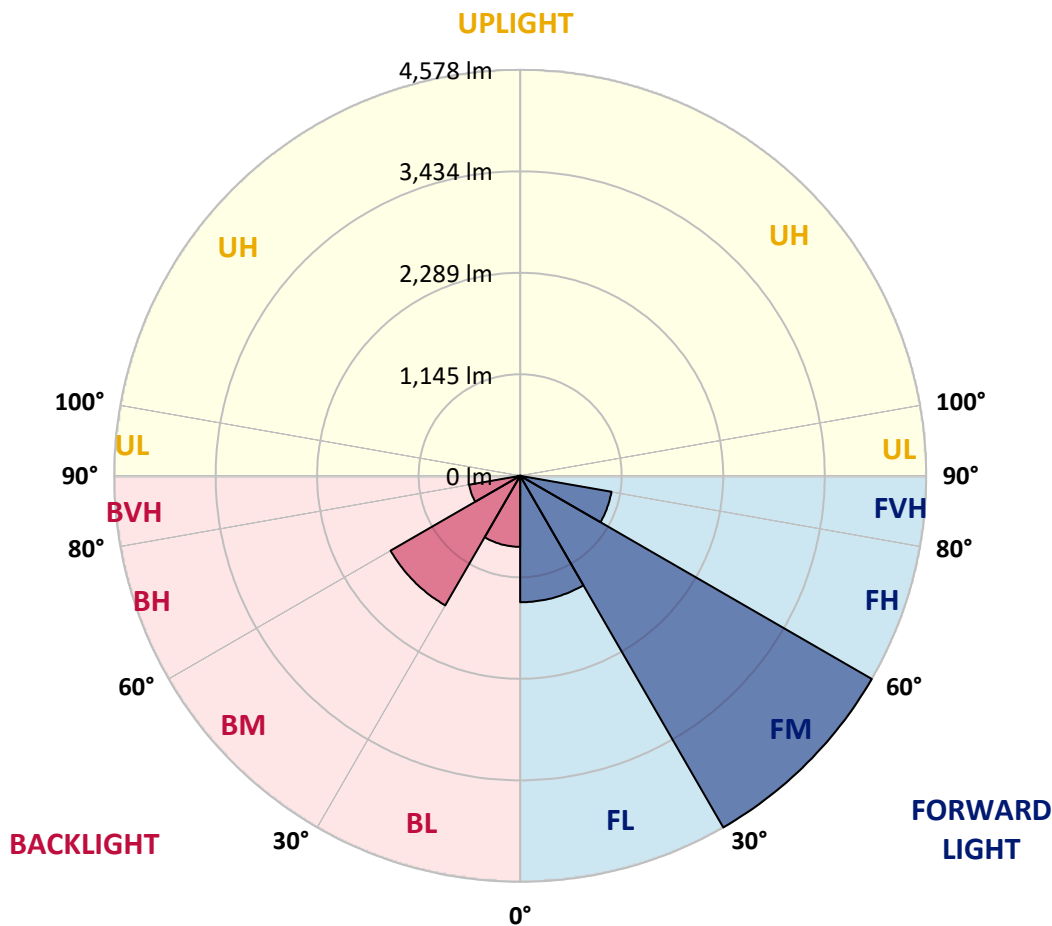
CATALOG NUMBER: GALN-SA3A-740-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.7	14.0			
FM (30°-60°)	4578.1	45.0			
FH (60°-80°)	1045.0	10.3			G1/1800
FVH (80°-90°)	17.3	0.2			G1/100
BL (0°-30°)	800.8	7.9	B2/1000		
BM (30°-60°)	1687.6	16.6	B2/2500		
BH (60°-80°)	583.8	5.7	B2/1000		G2/1000
BVH (80°-90°)	29.5	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°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4759.9	4733.2	4756.9	4869.8	4935.1	4979.6	5007.8	5003.4	4896.5	4792.6	4792.6
5°	4620.3	4586.2	4635.2	4890.6	5147.4	5169.7	5206.8	5145.9	4988.5	4798.5	4561.0
7.5°	4216.5	4241.7	4323.4	4658.9	4993.0	5160.8	5205.3	5128.1	4872.7	4517.9	4169.0
10°	3867.6	3927.0	4115.5	4477.8	4785.1	5003.4	5052.4	4944.0	4742.1	4307.1	3995.3
12.5°	3747.3	3710.2	3919.6	4281.8	4575.8	4693.1	4715.4	4722.8	4586.2	4200.2	3820.1
15°	3732.5	3756.3	3919.6	4194.2	4375.4	4381.3	4418.4	4476.3	4494.1	4272.9	3901.8
17.5°	3946.3	3918.1	4085.9	4304.1	4218.0	4131.9	4140.8	4223.9	4370.9	4335.3	4158.6
20°	4262.5	4326.4	4458.5	4436.2	4204.6	3986.4	3987.9	4066.6	4356.1	4593.6	4516.4
22.5°	4788.1	4850.5	4948.5	4679.7	4204.6	3943.3	3892.8	3999.7	4451.1	4900.9	4920.2
25°	5267.7	5382.0	5408.7	5092.5	4415.5	3983.4	3950.7	4056.2	4546.1	5200.9	5383.5
27.5°	5704.2	5745.7	5863.0	5358.2	4532.7	4010.1	4007.2	4142.3	4666.4	5350.8	5797.7
30°	6048.6	6044.2	6111.0	5526.0	4719.8	4160.1	4016.1	4271.4	4823.7	5598.7	6180.7
32.5°	6283.2	6333.7	6474.7	5759.1	4798.5	4302.6	4189.8	4422.9	5015.3	5716.0	6451.0
35°	6695.9	6783.5	6605.4	5888.3	5047.9	4443.7	4311.5	4629.2	5110.3	5843.7	6782.0
37.5°	7084.9	7018.1	6837.0	5958.0	5209.8	4705.0	4581.7	5028.6	5405.7	6121.4	7001.8
40°	7334.3	7332.9	7010.7	6014.5	5324.1	5104.3	5096.9	5433.9	5768.0	6296.6	7248.2
42.5°	7442.7	7546.7	7082.0	6008.5	5564.6	5588.4	5738.3	6039.7	6024.9	6332.2	7242.3
44°	7591.2	7653.6	7205.2	6021.9	5724.9	5915.0	6268.3	6459.9	6249.0	6312.9	7234.9
45°	7585.3	7589.7	7030.0	6039.7	5861.5	6188.2	6504.4	6828.1	6446.5	6271.3	7332.9
47.5°	7411.6	7361.1	6881.5	5907.6	6287.6	6909.7	7202.2	7398.2	6690.0	6182.2	7211.1
50°	7068.6	7010.7	6520.7	5851.1	6376.7	7358.1	7761.9	7833.2	6911.2	6094.6	7090.9
52.5°	7092.3	7076.0	6623.2	5935.8	6465.8	7499.1	8146.5	8164.3	7162.1	6278.7	7092.3
55°	7517.0	7460.5	6917.2	6041.2	6400.5	7334.3	7901.5	7870.3	7077.5	6167.4	7223.0
57.5°	6878.5	6915.7	6510.3	5624.0	5601.7	5962.5	6211.9	6134.7	5906.1	5566.1	6719.7
60°	5549.8	5655.2	5693.8	4703.5	4226.9	4041.3	3967.1	3830.5	3869.1	4572.8	5903.1
62.5°	4759.9	4754.0	4996.0	4264.0	2768.9	2381.4	2345.8	2377.0	2822.4	4501.6	5781.4
65°	3774.1	3875.0	3949.3	3613.7	2191.4	1768.3	1766.8	1964.2	2442.3	3762.2	4667.9
67.5°	2396.3	2528.4	2620.5	2311.7	1465.4	1259.0	1224.9	1462.4	1692.5	2467.5	2810.5
70°	1351.1	1413.4	1455.0	1333.2	932.4	653.3	614.7	671.1	1022.9	1597.5	1665.8
72.5°	521.1	549.3	605.8	610.2	351.9	210.8	170.7	204.9	430.6	632.5	602.8
75°	80.2	86.1	121.7	145.5	101.0	77.2	81.7	84.6	120.3	163.3	136.6
77.5°	38.6	38.6	37.1	43.1	50.5	54.9	59.4	65.3	71.3	78.7	75.7
80°	25.2	25.2	25.2	29.7	37.1	44.5	50.5	53.4	56.4	62.4	59.4
82.5°	16.3	16.3	16.3	22.3	29.7	37.1	40.1	47.5	53.4	62.4	57.9
85°	8.9	8.9	8.9	14.8	22.3	31.2	29.7	23.8	13.4	1.5	3.0
87.5°	3.0	3.0	3.0	3.0	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°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4667.9	4599.6	4593.6	4454.1	4329.3	4268.5	4219.5	4082.9	4112.6	4033.9	4032.4
5°	4442.2	4302.6	4076.9	3891.4	3705.8	3668.7	3506.8	3365.8	3370.2	3269.3	3287.1
7.5°	4036.9	3940.4	3665.7	3374.7	3128.2	2953.0	2800.1	2708.1	2590.8	2550.7	2529.9
10°	3780.0	3661.2	3352.4	2987.2	2711.0	2617.5	2470.5	2388.9	2268.6	2209.2	2167.6
12.5°	3667.2	3493.5	3107.4	2736.3	2552.2	2455.7	2331.0	2182.5	2040.0	1985.0	1909.3
15°	3679.1	3471.2	3036.2	2635.3	2414.1	2227.0	2115.7	1950.9	1805.4	1708.9	1653.9
17.5°	3858.7	3606.3	3068.8	2558.1	2240.4	2005.8	1787.6	1609.4	1493.6	1420.8	1403.0
20°	4283.3	3940.4	3123.8	2433.4	2066.7	1774.2	1505.5	1319.9	1230.8	1229.3	1230.8
22.5°	4636.7	4296.7	3235.1	2359.2	1893.0	1477.3	1210.0	1150.6	1132.8	1169.9	1174.4
25°	5113.3	4697.5	3426.7	2320.6	1732.6	1259.0	1094.2	1071.9	1070.5	1118.0	1119.5
27.5°	5601.7	5047.9	3541.0	2207.7	1569.3	1146.2	1024.4	1020.0	1043.7	1094.2	1089.8
30°	5934.3	5341.9	3747.3	2072.6	1376.3	1046.7	996.2	1002.2	1034.8	1073.4	1079.4
32.5°	6321.8	5631.4	3800.8	1998.4	1257.5	963.6	927.9	941.3	982.9	1043.7	1076.4
35°	6765.7	5836.3	3882.5	1897.4	1213.0	899.7	881.9	896.8	947.2	987.3	1022.9
37.5°	7093.8	6198.6	3897.3	1818.7	1164.0	864.1	835.9	884.9	914.6	971.0	988.8
40°	7337.3	6461.4	3935.9	1769.7	1125.4	818.1	818.1	850.7	890.8	942.8	978.4
42.5°	7493.2	6652.9	3964.1	1725.2	1051.2	804.7	797.3	829.9	883.4	933.9	950.2
44°	7588.2	6734.5	3935.9	1683.6	1030.4	788.4	788.4	816.6	858.1	917.5	936.8
45°	7612.0	6837.0	3873.5	1682.1	1005.1	769.1	766.1	819.5	847.8	920.5	932.4
47.5°	7704.0	6963.2	3881.0	1634.6	944.3	723.0	775.0	798.8	824.0	887.8	927.9
50°	7701.1	7041.9	3864.6	1564.9	899.7	671.1	757.2	783.9	809.2	874.5	890.8
52.5°	7721.8	7335.8	4014.6	1453.5	819.5	604.3	697.8	757.2	788.4	843.3	877.4
55°	7711.5	7503.6	4163.1	1370.4	706.7	564.2	647.3	717.1	761.6	819.5	835.9
57.5°	7043.3	6632.1	3852.8	1214.5	585.0	516.7	576.1	675.5	732.0	791.3	812.1
60°	5754.6	5111.8	3177.2	893.8	481.0	475.1	536.0	662.2	685.9	737.9	773.5
62.5°	5318.1	4483.8	2519.5	683.0	411.3	435.0	494.4	598.3	635.4	699.3	732.0
65°	4161.6	2978.3	1560.4	461.7	362.3	390.5	446.9	524.1	585.0	644.4	683.0
67.5°	2464.6	1627.2	772.0	323.7	316.2	345.9	403.8	461.7	531.5	596.8	616.1
70°	1342.2	800.2	329.6	246.5	268.7	295.5	351.9	392.0	458.8	509.2	541.9
72.5°	430.6	243.5	164.8	182.6	204.9	236.1	270.2	319.2	366.7	396.4	423.1
75°	103.9	102.4	117.3	127.7	148.5	172.2	200.4	225.7	262.8	291.0	314.8
77.5°	72.7	78.7	90.6	105.4	112.8	121.7	139.6	158.9	175.2	196.0	210.8
80°	56.4	60.9	69.8	77.2	84.6	92.1	101.0	108.4	118.8	132.1	139.6
82.5°	53.4	56.4	65.3	69.8	66.8	65.3	71.3	74.2	75.7	80.2	84.6
85°	4.5	0.0	3.0	10.4	25.2	37.1	40.1	40.1	38.6	41.6	41.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.9	4.5
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°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4014.6	3964.1	3983.4	4007.2	3973.0	3894.3	3915.1	3906.2	3986.4	3980.4	4060.6
5°	3365.8	3287.1	3296.0	3411.8	3374.7	3414.8	3334.6	3324.2	3339.1	3346.5	3359.8
7.5°	2575.9	2565.5	2654.6	2752.6	2798.6	2751.1	2672.4	2654.6	2638.3	2605.6	2679.9
10°	2102.3	2105.3	2099.3	2173.6	2225.5	2215.2	2167.6	2161.7	2130.5	2118.6	2160.2
12.5°	1876.6	1836.6	1817.3	1793.5	1833.6	1860.3	1839.5	1824.7	1826.2	1841.0	1846.9
15°	1658.4	1633.2	1591.6	1564.9	1584.2	1570.8	1563.4	1593.1	1585.6	1582.7	1618.3
17.5°	1413.4	1434.2	1431.2	1401.5	1426.8	1416.4	1414.9	1394.1	1365.9	1345.1	1357.0
20°	1251.6	1290.2	1319.9	1321.4	1334.7	1333.2	1311.0	1247.1	1226.4	1221.9	1224.9
22.5°	1193.7	1214.5	1250.1	1300.6	1300.6	1276.8	1250.1	1175.9	1156.6	1135.8	1126.9
25°	1147.7	1187.7	1233.8	1239.7	1263.5	1241.2	1198.1	1161.0	1120.9	1092.7	1092.7
27.5°	1123.9	1168.4	1202.6	1213.0	1245.7	1227.8	1183.3	1135.8	1088.3	1086.8	1061.6
30°	1113.5	1155.1	1177.4	1202.6	1217.4	1189.2	1175.9	1125.4	1077.9	1066.0	1024.4
32.5°	1082.3	1141.7	1183.3	1177.4	1189.2	1177.4	1158.1	1116.5	1063.0	1036.3	1031.9
35°	1046.7	1106.1	1150.6	1181.8	1189.2	1164.0	1152.1	1095.7	1022.9	1009.6	963.6
37.5°	1027.4	1063.0	1118.0	1168.4	1178.8	1165.5	1125.4	1067.5	994.7	979.9	939.8
40°	1003.6	1049.7	1092.7	1134.3	1165.5	1132.8	1086.8	1030.4	997.7	953.2	941.3
42.5°	985.8	1037.8	1073.4	1119.5	1155.1	1112.0	1058.6	1020.0	974.0	944.3	910.1
44°	979.9	1027.4	1051.2	1107.6	1137.3	1104.6	1060.1	1020.0	966.5	939.8	910.1
45°	959.1	1024.4	1049.7	1100.2	1125.4	1098.7	1042.2	1002.2	963.6	930.9	899.7
47.5°	938.3	982.9	1025.9	1066.0	1083.8	1074.9	1027.4	978.4	932.4	913.1	883.4
50°	932.4	976.9	1017.0	1054.1	1074.9	1057.1	1014.0	966.5	913.1	881.9	856.7
52.5°	902.7	957.6	1002.2	1014.0	1040.8	1030.4	997.7	945.7	895.3	868.5	847.8
55°	859.6	917.5	978.4	993.3	1031.9	1015.5	966.5	917.5	874.5	834.4	807.7
57.5°	843.3	899.7	959.1	978.4	1002.2	975.4	963.6	911.6	843.3	822.5	780.9
60°	801.7	873.0	922.0	966.5	968.0	960.6	939.8	880.4	824.0	785.4	755.7
62.5°	769.1	835.9	874.5	916.1	941.3	920.5	899.7	844.8	783.9	740.9	706.7
65°	721.6	782.4	815.1	840.3	868.5	865.6	829.9	789.9	726.0	691.9	659.2
67.5°	648.8	702.3	746.8	770.6	788.4	783.9	757.2	729.0	663.7	629.5	605.8
70°	561.2	616.1	644.4	657.7	675.5	684.4	663.7	650.3	592.4	547.8	525.6
72.5°	451.3	487.0	528.5	540.4	547.8	553.8	553.8	541.9	482.5	464.7	426.1
75°	332.6	360.8	392.0	392.0	405.3	406.8	409.8	402.3	357.8	334.1	325.1
77.5°	225.7	246.5	271.7	282.1	291.0	289.5	288.0	267.2	243.5	233.1	224.2
80°	147.0	167.8	179.6	193.0	201.9	200.4	203.4	188.6	178.2	160.3	163.3
82.5°	87.6	103.9	115.8	132.1	132.1	136.6	136.6	132.1	121.7	112.8	112.8
85°	41.6	54.9	62.4	72.7	78.7	80.2	71.3	60.9	50.5	46.0	50.5
87.5°	7.4	10.4	14.8	13.4	16.3	14.8	14.8	14.8	14.8	11.9	13.4
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: P528002

CATALOG NUMBER: GALN-SA3A-740-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4030.9	4105.2	4157.1	4243.2	4391.7	4510.5	4632.2	4722.8	4733.2	4759.9
5°	3408.8	3448.9	3581.1	3753.3	3875.0	4075.5	4204.6	4439.2	4526.8	4620.3
7.5°	2662.0	2727.4	2904.0	3019.9	3287.1	3538.0	3797.8	4087.3	4203.1	4216.5
10°	2244.8	2339.9	2460.1	2645.7	2791.2	3070.3	3394.0	3716.2	3845.3	3867.6
12.5°	1971.7	2093.4	2253.8	2387.4	2526.9	2770.4	3080.7	3478.6	3646.4	3747.3
15°	1708.9	1835.1	2011.7	2197.3	2320.6	2611.6	2976.8	3425.2	3643.4	3732.5
17.5°	1438.7	1556.0	1701.4	1901.9	2149.8	2476.5	2960.5	3603.3	3842.4	3946.3
20°	1207.0	1272.4	1441.6	1648.0	1958.3	2338.4	2966.4	3866.1	4216.5	4262.5
22.5°	1116.5	1131.3	1198.1	1388.2	1728.2	2197.3	3071.8	4238.8	4636.7	4788.1
25°	1046.7	1043.7	1061.6	1189.2	1560.4	2142.4	3175.7	4581.7	5102.9	5267.7
27.5°	1008.1	978.4	979.9	1100.2	1441.6	2053.3	3309.4	4975.2	5631.4	5704.2
30°	988.8	982.9	965.0	1014.0	1312.5	1919.7	3331.6	5362.7	5943.2	6048.6
32.5°	976.9	919.0	896.8	914.6	1190.7	1774.2	3414.8	5618.1	6329.2	6283.2
35°	917.5	865.6	850.7	868.5	1104.6	1692.5	3359.8	5840.8	6618.7	6695.9
37.5°	895.3	849.2	819.5	804.7	1024.4	1624.2	3331.6	6183.7	6899.3	7084.9
40°	874.5	825.5	789.9	775.0	962.1	1533.7	3322.7	6448.0	7223.0	7334.3
42.5°	850.7	819.5	779.5	752.7	886.4	1443.1	3220.3	6529.6	7322.5	7442.7
44°	843.3	795.8	754.2	745.3	856.7	1397.1	3199.5	6603.9	7408.6	7591.2
45°	835.9	791.3	743.8	732.0	846.3	1371.8	3171.3	6621.7	7551.1	7585.3
47.5°	815.1	786.9	740.9	708.2	824.0	1316.9	3086.7	6520.7	7405.6	7411.6
50°	798.8	766.1	718.6	654.7	794.3	1270.9	3125.3	6483.6	7055.2	7068.6
52.5°	780.9	732.0	705.2	595.4	745.3	1232.3	3206.9	6651.4	7095.3	7092.3
55°	760.2	706.7	641.4	544.9	663.7	1183.3	3404.4	6982.5	7466.5	7517.0
57.5°	727.5	681.5	587.9	500.3	570.1	1089.8	3340.5	6348.5	6869.6	6878.5
60°	684.4	641.4	533.0	466.2	467.7	859.6	2987.2	4947.0	5420.6	5549.8
62.5°	642.9	619.1	487.0	417.2	397.9	684.4	2525.5	4111.1	4653.0	4759.9
65°	593.9	536.0	446.9	380.1	341.5	479.6	1789.0	3071.8	3630.1	3774.1
67.5°	531.5	469.2	393.4	334.1	292.5	320.7	923.5	1746.0	2311.7	2396.3
70°	464.7	406.8	331.1	282.1	236.1	221.2	406.8	832.9	1263.5	1351.1
72.5°	381.6	328.1	264.3	222.7	176.7	152.9	136.6	222.7	448.4	521.1
75°	276.2	239.0	198.9	158.9	124.7	98.0	80.2	66.8	74.2	80.2
77.5°	203.4	173.7	147.0	112.8	87.6	69.8	54.9	41.6	40.1	38.6
80°	158.9	141.0	117.3	90.6	68.3	52.0	38.6	28.2	25.2	25.2
82.5°	124.7	115.8	96.5	74.2	56.4	41.6	28.2	19.3	16.3	16.3
85°	47.5	47.5	69.8	60.9	43.1	29.7	19.3	10.4	8.9	8.9
87.5°	11.9	11.9	11.9	11.9	10.4	8.9	8.9	4.5	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)