

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: P527978

Luminaire Tested: **GALN-SA3A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9471 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

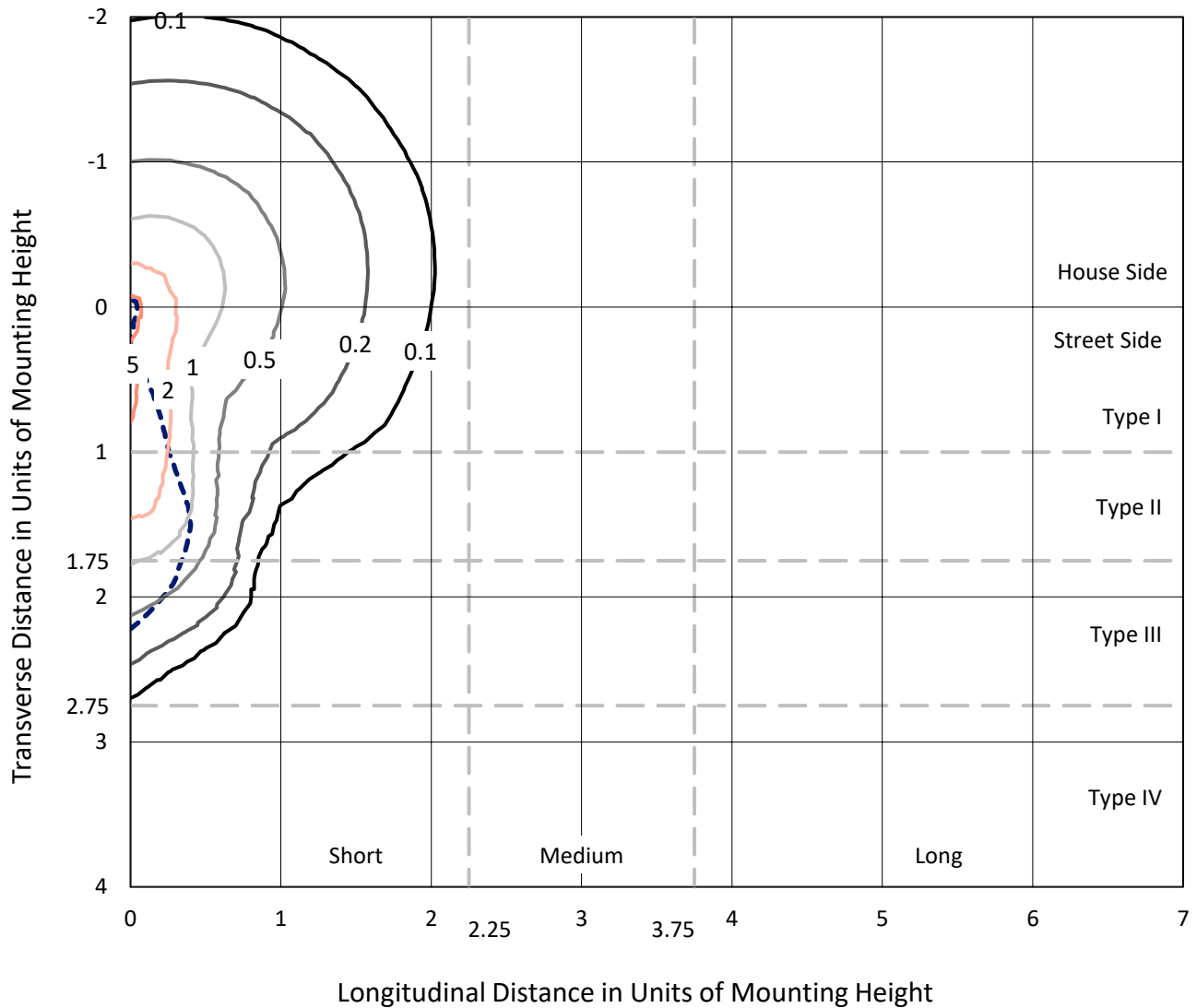
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

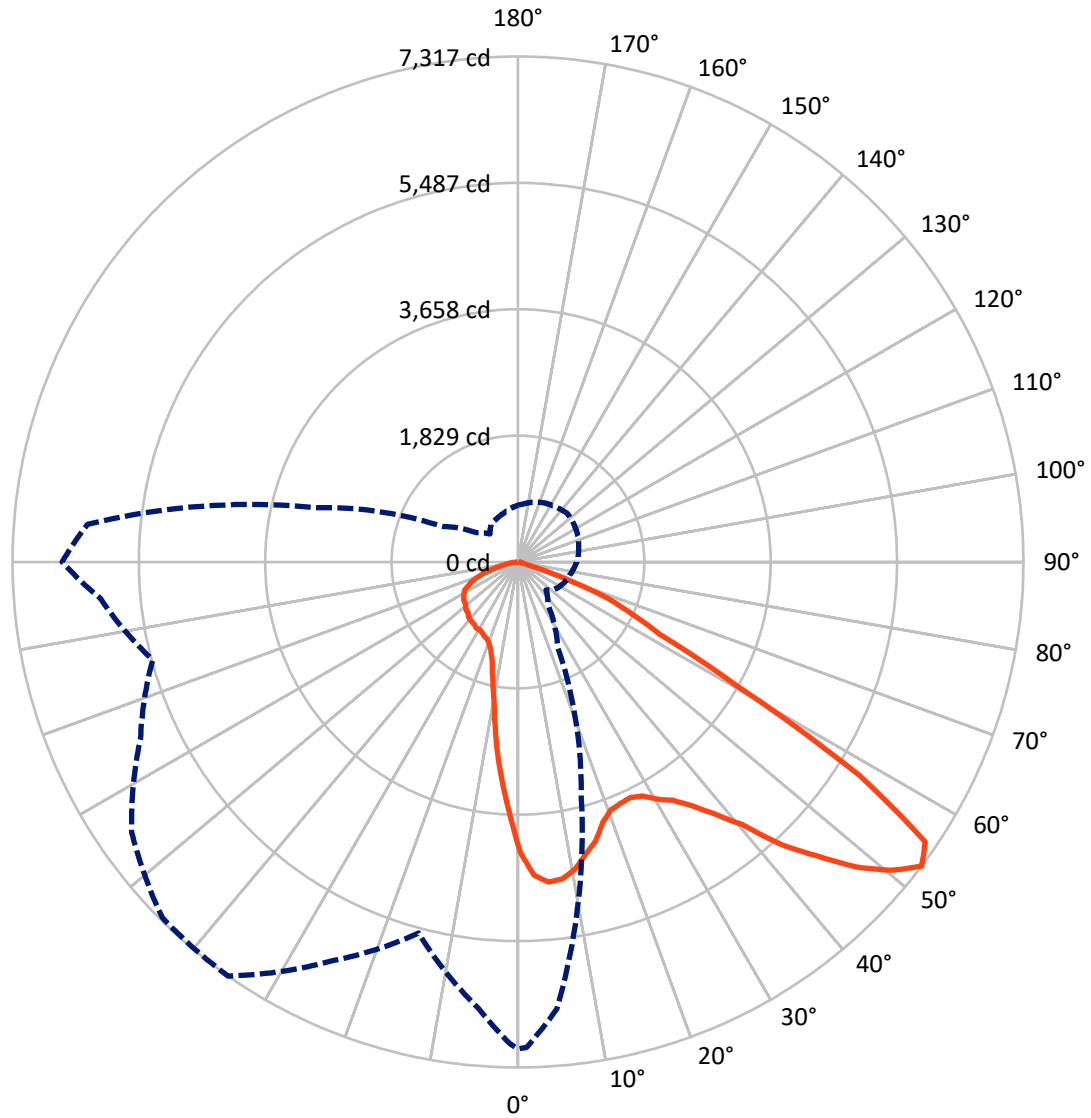
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2855.1	0.0	2855.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6615.9	0.0	6615.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	9471.0	0.0	9471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	3.4
10°-20°	695.2	7.3
20°-30°	1050.4	11.1
30°-40°	1517.8	16.0
40°-50°	2019.9	21.3
50°-60°	2259.3	23.9
60°-70°	1273.3	13.4
70°-80°	283.8	3.0
80°-90°	50.5	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°	9471.0	100.0
0°-180°	9471.0	100.0

Coefficient of Utilization



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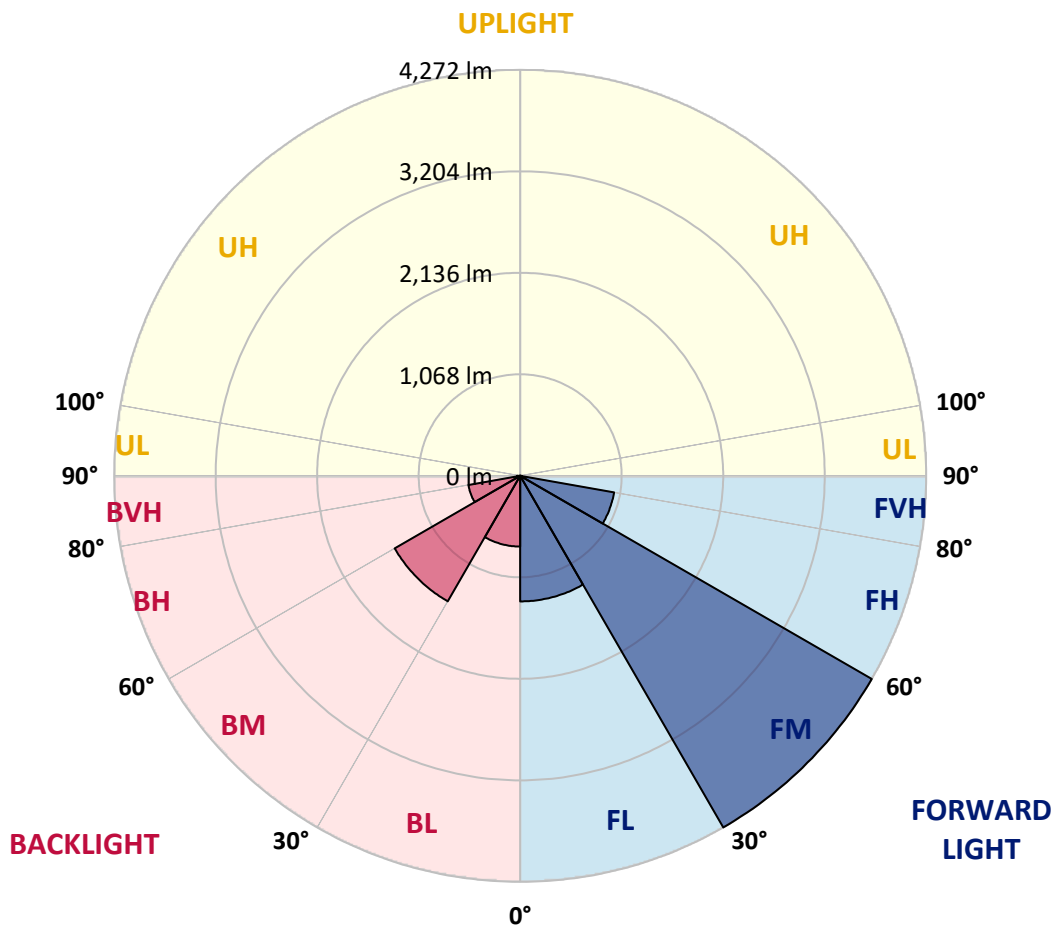
CATALOG NUMBER: GALN-SA3A-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.7	14.0			
FM (30°-60°)	4272.1	45.1			
FH (60°-80°)	1003.8	10.6			G1/1800
FVH (80°-90°)	18.3	0.2			G1/100
BL (0°-30°)	744.5	7.9	B2/1000		
BM (30°-60°)	1524.9	16.1	B2/2500		
BH (60°-80°)	553.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	32.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3
2.5°	4273.3	4341.9	4267.8	4136.0	4042.7	3957.6	3868.3	3850.5	3733.8	3713.2	3628.1
5°	4030.3	4015.2	3924.6	3751.7	3560.9	3387.9	3260.2	3136.7	3052.9	2955.5	2948.6
7.5°	3735.2	3647.3	3595.2	3333.0	3096.9	2825.1	2708.4	2520.3	2461.3	2373.4	2328.1
10°	3471.6	3407.1	3284.9	3022.7	2693.3	2513.5	2388.5	2287.0	2218.3	2127.7	2013.8
12.5°	3341.2	3315.1	3177.9	2771.5	2527.2	2335.0	2247.2	2148.3	2031.6	1886.1	1829.8
15°	3364.6	3276.7	3172.4	2723.5	2385.8	2200.5	2060.5	1936.9	1787.3	1648.6	1567.7
17.5°	3538.9	3471.6	3263.0	2753.7	2332.3	2064.6	1810.6	1628.1	1493.5	1368.6	1312.3
20°	3882.1	3784.6	3549.9	2792.1	2217.0	1875.1	1584.1	1359.0	1214.9	1149.0	1129.8
22.5°	4262.3	4204.7	3829.9	2878.6	2125.0	1699.4	1343.9	1118.8	1065.2	1047.4	1083.1
25°	4724.9	4575.3	4265.1	3020.0	2053.6	1549.8	1140.7	1015.8	988.4	1006.2	1047.4
27.5°	5076.3	5036.5	4569.8	3153.2	1956.1	1370.0	1026.8	944.4	952.7	970.5	1009.0
30°	5493.7	5291.9	4864.9	3245.1	1868.3	1246.4	947.2	925.2	933.5	963.7	982.9
32.5°	5744.9	5669.4	5050.3	3383.8	1766.7	1139.4	885.4	864.8	877.2	922.5	967.8
35°	6064.7	5915.1	5279.5	3419.5	1695.3	1096.8	841.5	826.4	855.2	886.8	937.6
37.5°	6438.1	6335.1	5596.6	3394.8	1656.9	1052.9	804.4	797.6	818.1	862.1	921.1
40°	6659.1	6627.5	5762.7	3409.9	1596.5	1014.4	761.9	770.1	812.7	847.0	904.6
42.5°	6871.9	6666.0	6008.4	3404.4	1558.0	962.3	766.0	756.4	789.3	829.1	884.0
45°	6918.5	6714.0	6066.1	3365.9	1511.4	911.5	734.4	738.5	778.3	827.8	863.4
47.5°	6888.3	6737.3	6173.2	3354.9	1467.4	875.8	687.7	737.2	760.5	800.3	851.1
50°	6867.7	6859.5	6263.8	3407.1	1408.4	819.5	631.5	719.3	742.6	782.5	837.4
52.5°	7048.9	7031.1	6490.3	3544.4	1361.7	759.1	573.8	674.0	730.3	768.7	822.3
55°	7158.8	7080.5	6878.7	3713.2	1283.5	679.5	534.0	617.7	700.1	734.4	789.3
57.5°	6439.5	6385.9	6222.6	3466.1	1151.7	575.2	484.6	560.1	658.9	712.4	768.7
60°	5357.8	5274.0	4855.3	2945.9	849.7	447.5	454.4	514.8	647.9	668.5	734.4
62.5°	5051.6	4844.4	4274.7	2370.7	652.0	384.4	407.7	473.6	590.3	624.6	690.5
65°	4008.4	3854.6	3058.4	1711.8	436.5	333.6	372.0	426.9	509.3	576.5	636.9
67.5°	2509.3	2362.5	1632.2	809.9	304.7	285.5	332.2	389.9	457.1	517.5	584.8
70°	1311.0	1150.3	753.6	292.4	210.0	233.4	277.3	332.2	398.1	447.5	499.7
72.5°	488.7	396.7	245.7	126.3	145.5	178.5	225.1	264.9	311.6	372.0	400.8
75°	75.5	64.5	63.1	76.9	98.8	129.0	160.6	200.4	241.6	280.0	299.3
77.5°	35.7	34.3	38.4	50.8	65.9	92.0	116.7	155.1	188.1	212.8	223.8
80°	23.3	22.0	24.7	34.3	49.4	68.6	93.3	119.4	149.6	170.2	167.5
82.5°	13.7	15.1	15.1	23.3	34.3	49.4	67.3	90.6	111.2	129.0	118.1
85°	8.2	6.9	6.9	13.7	23.3	39.8	56.3	38.4	39.8	39.8	45.3
87.5°	2.7	2.7	2.7	1.4	2.7	2.7	4.1	6.9	8.2	9.6	12.4
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°	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3
2.5°	3625.4	3667.9	3652.8	3599.3	3640.5	3647.3	3619.9	3714.6	3732.4	3703.6	3711.9
5°	2939.0	2950.0	2974.7	3026.9	3063.9	3107.9	3107.9	3110.6	3073.5	3166.9	3139.4
7.5°	2289.7	2296.6	2325.4	2436.6	2468.2	2551.9	2587.6	2562.9	2488.8	2457.2	2483.3
10°	1976.7	1936.9	1927.3	1941.0	2012.4	2048.1	2078.3	2070.1	2057.7	2033.0	2005.6
12.5°	1768.1	1739.2	1715.9	1683.0	1687.1	1721.4	1744.7	1725.5	1731.0	1736.5	1744.7
15°	1541.6	1521.0	1508.6	1459.2	1453.7	1477.1	1485.3	1496.3	1516.9	1518.2	1508.6
17.5°	1301.3	1283.5	1311.0	1338.4	1319.2	1320.6	1335.7	1345.3	1339.8	1315.1	1302.7
20°	1136.6	1155.8	1183.3	1209.4	1230.0	1242.3	1247.8	1232.7	1214.9	1164.1	1162.7
22.5°	1088.6	1113.3	1136.6	1176.4	1195.6	1227.2	1198.4	1164.1	1139.4	1114.7	1085.8
25°	1052.9	1073.5	1120.1	1135.2	1172.3	1198.4	1177.8	1143.5	1100.9	1065.2	1043.3
27.5°	1026.8	1050.1	1080.3	1121.5	1150.3	1165.4	1144.9	1131.1	1087.2	1044.6	1013.1
30°	1010.3	1035.0	1089.9	1124.3	1149.0	1161.3	1125.6	1109.2	1077.6	1041.9	1014.4
32.5°	999.3	1021.3	1068.0	1111.9	1128.4	1128.4	1133.9	1114.7	1070.7	1010.3	987.0
35°	963.7	993.9	1032.3	1083.1	1113.3	1131.1	1103.7	1081.7	1052.9	991.1	948.6
37.5°	943.1	963.7	1013.1	1061.1	1087.2	1106.4	1095.4	1057.0	1018.6	967.8	933.5
40°	921.1	954.0	998.0	1043.3	1072.1	1091.3	1083.1	1037.8	991.1	943.1	919.7
42.5°	906.0	928.0	973.3	1024.1	1058.4	1095.4	1070.7	1014.4	981.5	915.6	889.5
45°	893.6	929.3	977.4	998.0	1033.7	1072.1	1028.2	993.9	955.4	907.4	885.4
47.5°	878.5	911.5	943.1	998.0	1014.4	1032.3	1024.1	969.1	936.2	884.0	868.9
50°	873.1	885.4	943.1	973.3	996.6	1014.4	992.5	951.3	919.7	866.2	833.2
52.5°	851.1	874.4	911.5	951.3	980.1	1002.1	966.4	940.3	897.8	841.5	820.9
55°	823.6	837.4	903.3	944.4	959.5	974.6	960.9	918.4	874.4	816.8	796.2
57.5°	787.9	819.5	873.1	930.7	949.9	958.2	936.2	901.9	847.0	796.2	763.2
60°	750.9	783.8	842.9	889.5	908.7	938.9	906.0	885.4	822.3	766.0	730.3
62.5°	713.8	750.9	794.8	853.8	870.3	882.7	874.4	845.6	794.8	731.7	687.7
65°	669.9	697.3	752.3	782.5	793.4	822.3	793.4	782.5	737.2	676.8	639.7
67.5°	604.0	627.3	675.4	704.2	712.4	724.8	723.4	711.1	660.3	619.1	586.2
70°	528.5	549.1	579.3	613.6	617.7	632.8	619.1	616.4	583.4	527.1	509.3
72.5°	424.2	443.4	483.2	498.3	499.7	505.2	498.3	488.7	480.5	421.4	403.6
75°	325.3	336.3	355.5	369.3	369.3	376.1	372.0	362.4	340.4	303.4	285.5
77.5°	226.5	237.5	262.2	270.4	269.1	271.8	259.4	249.8	216.9	197.7	182.6
80°	164.7	171.6	183.9	189.4	190.8	194.9	179.8	171.6	152.4	130.4	123.5
82.5°	119.4	123.5	124.9	131.8	131.8	124.9	120.8	112.6	98.8	85.1	79.6
85°	49.4	50.8	52.2	60.4	61.8	74.1	68.6	64.5	56.3	48.0	43.9
87.5°	12.4	13.7	17.8	15.1	17.8	17.8	19.2	22.0	22.0	17.8	17.8
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°	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3
2.5°	3743.4	3754.4	3894.4	3912.3	3980.9	4050.9	4192.3	4293.9	4376.3	4429.8	4444.9
5°	3168.3	3238.3	3302.8	3407.1	3501.8	3636.4	3791.5	3983.7	4225.3	4348.8	4398.2
7.5°	2480.5	2562.9	2656.2	2757.8	2896.5	3138.1	3345.3	3567.7	3876.6	4004.2	4197.8
10°	2024.8	2116.7	2240.3	2318.5	2486.0	2716.6	2958.2	3214.9	3510.1	3694.0	3917.8
12.5°	1790.0	1865.5	1979.5	2144.2	2269.1	2418.7	2598.6	2922.5	3345.3	3519.7	3673.4
15°	1530.6	1614.3	1746.1	1928.7	2078.3	2256.8	2458.6	2811.3	3261.6	3530.7	3661.1
17.5°	1316.4	1376.8	1515.5	1673.4	1844.9	2039.9	2329.5	2805.9	3349.5	3694.0	3906.8
20°	1168.2	1176.4	1251.9	1386.5	1619.8	1873.8	2249.9	2778.4	3630.9	3975.4	4244.5
22.5°	1074.8	1066.6	1068.0	1181.9	1345.3	1710.4	2125.0	2871.7	3950.7	4422.9	4604.1
25°	1028.2	1006.2	992.5	1017.2	1165.4	1516.9	2030.3	2995.3	4295.3	4792.2	5014.6
27.5°	1003.5	965.0	937.6	941.7	1050.1	1419.4	1971.2	3048.8	4637.1	5307.0	5385.2
30°	993.9	945.8	906.0	892.3	963.7	1283.5	1844.9	3140.8	4943.2	5589.7	5657.0
32.5°	959.5	900.5	862.1	849.7	878.5	1164.1	1754.3	3206.7	5213.6	5897.2	5873.9
35°	919.7	870.3	822.3	798.9	819.5	1087.2	1681.6	3175.1	5532.1	6136.1	6123.7
37.5°	915.6	851.1	811.3	772.8	771.5	992.5	1582.8	3205.3	5735.3	6564.4	6395.5
40°	879.9	838.7	786.6	755.0	737.2	944.4	1486.7	3133.9	6033.1	6737.3	6571.2
42.5°	881.3	819.5	774.2	737.2	719.3	874.4	1420.8	3114.7	6137.5	7018.7	6653.6
45°	859.3	798.9	760.5	716.6	707.0	820.9	1357.6	3025.5	6321.4	7032.5	6550.7
47.5°	837.4	783.8	742.6	690.5	668.5	801.7	1308.2	2951.4	6225.3	6903.4	6407.9
50°	822.3	760.5	722.1	685.0	623.2	768.7	1243.7	2933.5	6090.8	6729.1	6143.0
52.5°	796.2	741.3	701.5	672.6	573.8	738.5	1219.0	3037.8	6255.5	6598.7	6066.1
55°	771.5	715.2	664.4	608.1	532.6	658.9	1150.3	3135.3	6495.7	6899.3	6414.8
57.5°	745.4	691.9	636.9	569.7	492.8	576.5	1079.0	3153.2	6045.5	6376.3	6089.4
60°	711.1	642.4	601.3	513.4	450.3	477.7	855.2	2779.8	4689.2	5324.8	5334.4
62.5°	672.6	598.5	562.8	459.9	406.3	411.8	697.3	2336.4	3803.8	4407.8	4670.0
65°	621.8	550.5	507.9	425.5	374.8	356.9	510.7	1711.8	2889.6	3576.0	3873.8
67.5°	556.0	488.7	435.2	370.6	334.9	306.1	348.7	963.7	1706.3	2400.9	2491.5
70°	485.9	428.3	372.0	318.5	278.7	258.1	255.3	426.9	815.4	1291.7	1470.2
72.5°	383.0	341.8	296.5	256.7	230.6	200.4	182.6	177.1	275.9	525.8	726.2
75°	274.5	240.2	214.1	188.1	168.8	152.4	138.6	126.3	115.3	131.8	181.2
77.5°	173.0	160.6	140.0	133.2	122.2	118.1	112.6	105.7	97.5	92.0	92.0
80°	116.7	108.4	101.6	100.2	96.1	94.7	96.1	89.2	81.0	74.1	76.9
82.5°	78.2	76.9	75.5	74.1	75.5	76.9	79.6	78.2	71.4	67.3	68.6
85°	46.7	49.4	52.2	54.9	60.4	53.5	43.9	37.1	32.9	30.2	28.8
87.5°	17.8	24.7	22.0	20.6	22.0	20.6	19.2	17.8	15.1	13.7	13.7
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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CATALOG NUMBER: GALN-SA3A-735-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3	4203.3
2.5°	4545.1	4572.6	4595.9	4590.4	4542.4	4477.8	4451.8	4318.6	4291.1	4273.3
5°	4606.9	4766.1	4800.4	4779.8	4654.9	4497.1	4343.3	4148.4	4034.4	4030.3
7.5°	4492.9	4689.2	4751.0	4797.7	4631.6	4357.0	4093.5	3801.1	3729.7	3735.2
10°	4203.3	4516.3	4668.6	4716.7	4525.9	4288.4	3923.3	3626.7	3474.4	3471.6
12.5°	4042.7	4288.4	4331.0	4398.2	4341.9	4101.7	3824.4	3492.2	3344.0	3341.2
15°	3899.9	4061.9	4074.3	4169.0	4199.2	4037.2	3850.5	3496.3	3376.9	3364.6
17.5°	4024.8	3912.3	3865.6	3878.0	3967.2	4026.2	4001.5	3729.7	3607.5	3538.9
20°	4108.6	3857.4	3716.0	3729.7	3835.4	4050.9	4226.6	4067.4	3873.8	3882.1
22.5°	4332.3	3865.6	3644.6	3629.5	3797.0	4180.0	4480.6	4494.3	4307.6	4262.3
25°	4667.3	3960.3	3622.6	3618.5	3779.1	4318.6	4777.1	4999.5	4808.7	4724.9
27.5°	4936.3	4108.6	3691.3	3705.0	3835.4	4431.2	5029.7	5324.8	5179.3	5076.3
30°	5172.4	4262.3	3787.4	3724.2	3986.4	4490.2	5138.1	5695.4	5578.8	5493.7
32.5°	5269.9	4480.6	3939.7	3835.4	4111.3	4561.6	5363.2	6055.1	5954.9	5744.9
35°	5434.6	4602.8	4022.1	4013.9	4329.6	4733.2	5468.9	6292.6	6251.4	6064.7
37.5°	5566.4	4726.3	4314.5	4223.9	4628.8	5021.4	5639.2	6620.7	6525.9	6438.1
40°	5668.0	4947.3	4587.7	4707.1	4996.7	5283.6	5795.7	6641.2	6914.4	6659.1
42.5°	5574.6	5145.0	5036.5	5322.1	5596.6	5582.9	5813.5	6800.5	7005.0	6871.9
45°	5551.3	5479.9	5746.2	6005.7	6068.8	5831.3	5685.8	6624.8	6977.6	6918.5
47.5°	5495.0	5809.4	6273.4	6696.2	6600.1	5997.4	5533.5	6593.2	6994.0	6888.3
50°	5475.8	5880.8	6663.2	7075.0	7017.4	6141.6	5462.1	6390.0	6877.4	6867.7
52.5°	5474.4	6027.6	6825.2	7280.9	7316.6	6369.5	5559.5	6493.0	6968.0	7048.9
55°	5536.2	5981.0	6804.6	7167.0	7153.3	6267.9	5570.5	6561.6	7079.1	7158.8
57.5°	5221.9	5357.8	5615.8	5902.7	5828.6	5191.7	4974.8	6066.1	6497.1	6439.5
60°	4509.4	4083.9	3792.8	3779.1	3635.0	3435.9	4071.5	5414.0	5414.0	5357.8
62.5°	3949.3	2680.9	2303.4	2196.4	2299.3	2528.6	3927.4	5265.8	5116.2	5051.6
65°	3453.8	2046.7	1665.1	1634.9	1813.4	2159.3	3551.2	4486.1	4222.5	4008.4
67.5°	2222.4	1499.0	1238.2	1184.7	1400.2	1585.5	2363.8	2759.2	2593.1	2509.3
70°	1433.1	976.0	689.1	646.6	730.3	977.4	1510.0	1608.8	1367.2	1311.0
72.5°	678.1	421.4	241.6	199.0	223.8	373.4	597.1	642.4	534.0	488.7
75°	215.5	155.1	98.8	85.1	81.0	96.1	137.3	105.7	76.9	75.5
77.5°	96.1	92.0	78.2	65.9	57.7	48.0	39.8	32.9	34.3	35.7
80°	79.6	72.8	64.5	57.7	48.0	37.1	28.8	22.0	22.0	23.3
82.5°	70.0	63.1	56.3	48.0	41.2	30.2	22.0	15.1	13.7	13.7
85°	30.2	35.7	38.4	41.2	32.9	24.7	15.1	9.6	8.2	8.2
87.5°	12.4	11.0	9.6	8.2	6.9	6.9	5.5	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)