

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: P458816

Luminaire Tested: **GALN-SA3C-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16852 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

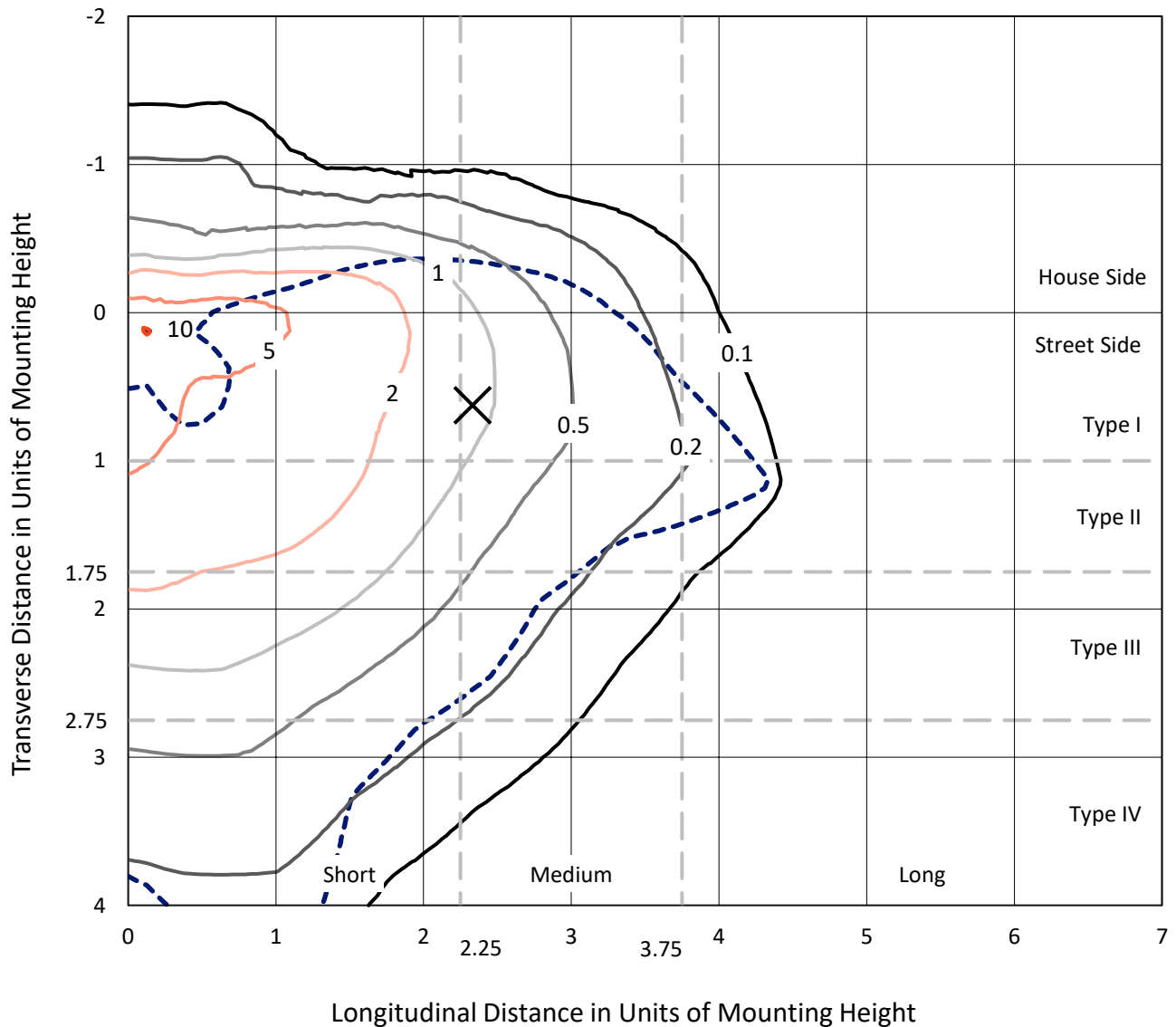
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

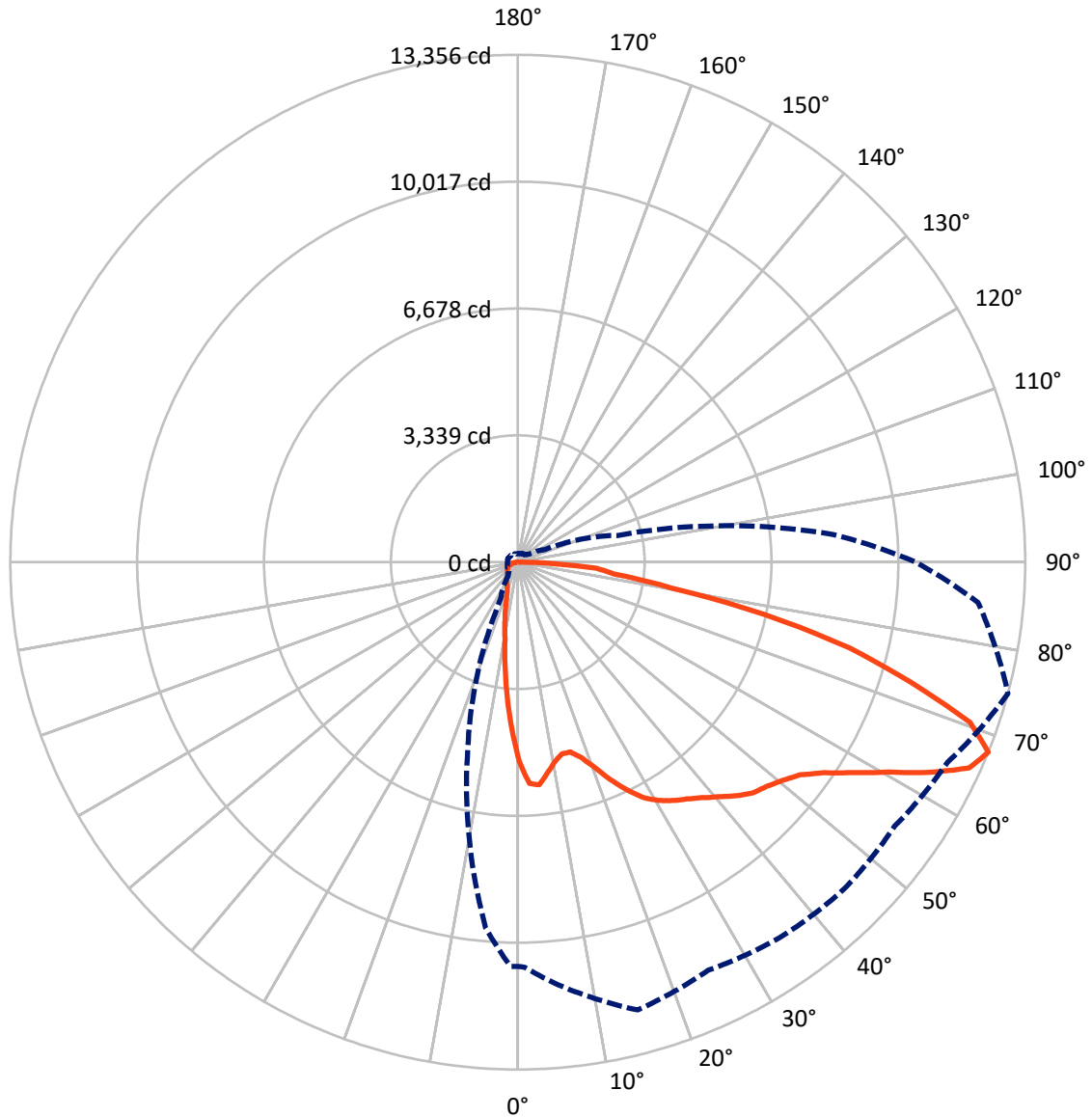
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2848.3	0.0	2848.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	14003.6	0.0	14003.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	16852.0	0.0	16852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	2.4
10°-20°	832.8	4.9
20°-30°	1198.4	7.1
30°-40°	1726.1	10.2
40°-50°	2424.7	14.4
50°-60°	3381.6	20.1
60°-70°	4020.5	23.9
70°-80°	2367.8	14.1
80°-90°	500.7	3.0
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°	16852.0	100.0
0°-180°	16852.0	100.0

Coefficient of Utilization



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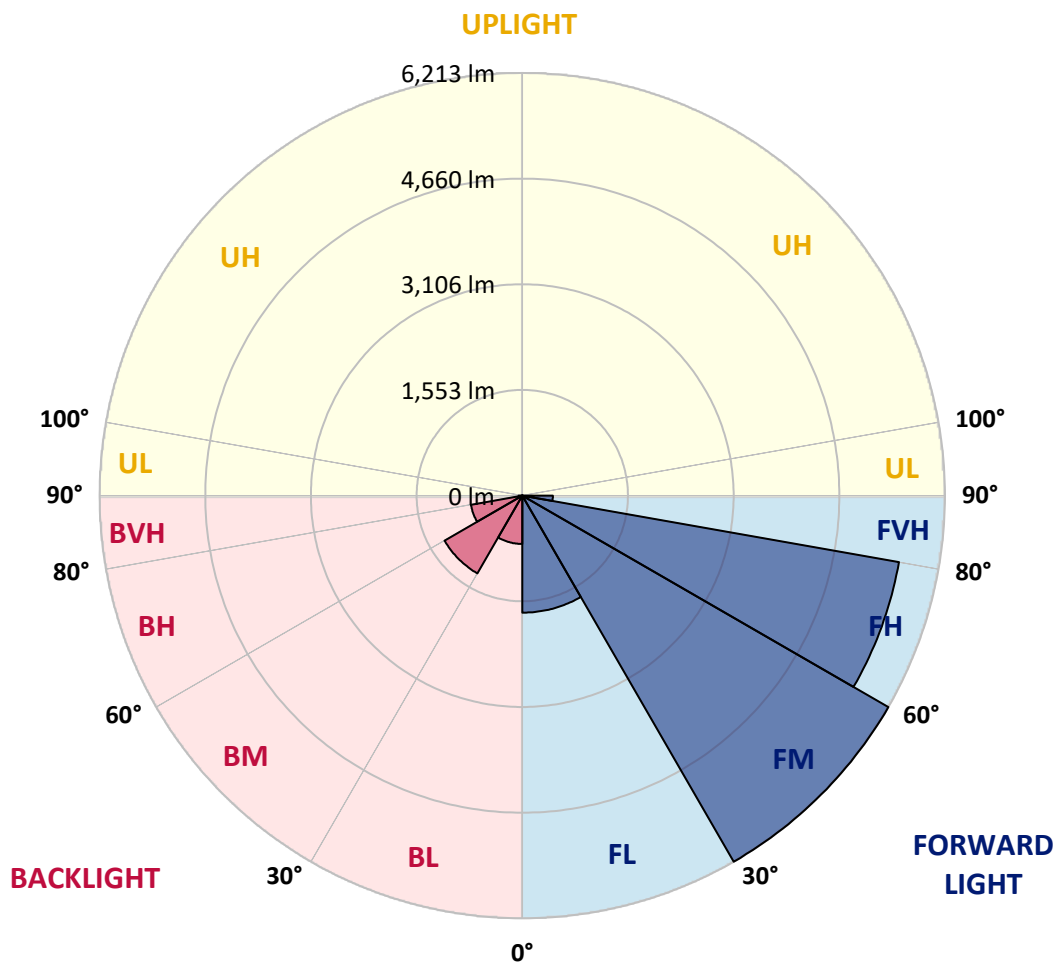
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.1	10.2			
FM	(30°-60°)	6212.7	36.9			
FH	(60°-80°)	5621.9	33.4			G3/7500
FVH	(80°-90°)	448.9	2.7			G3/500
BL	(0°-30°)	710.5	4.2	B2/1000		
BM	(30°-60°)	1319.7	7.8	B2/2500		
BH	(60°-80°)	766.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	51.8	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0
2.5°	5676.7	5684.3	5732.9	5874.5	5971.7	6007.4	6032.2	5985.8	5940.4	5830.1	5663.7
5°	5659.4	5703.7	5830.1	6147.9	6398.6	6506.6	6539.1	6399.7	6169.5	5886.3	5545.9
7.5°	5328.7	5388.2	5582.7	6115.4	6557.4	6810.3	6776.8	6525.0	6110.0	5605.4	5129.9
10°	4936.4	5002.4	5236.9	5880.9	6450.4	6798.4	6798.4	6491.5	5940.4	5340.6	4792.7
12.5°	4625.2	4694.4	4962.4	5640.0	6227.8	6557.4	6612.5	6348.9	5818.3	5173.1	4571.2
15°	4522.6	4589.6	4878.1	5494.1	5992.2	6193.2	6211.6	6125.2	5758.8	5185.0	4561.5
17.5°	4650.1	4736.5	5028.3	5537.3	5776.1	5788.0	5802.1	5870.1	5765.3	5402.2	4758.1
20°	5018.6	5111.5	5416.3	5676.7	5587.0	5463.8	5471.4	5646.4	5842.0	5761.0	5228.2
22.5°	5550.3	5631.3	5943.6	5922.0	5507.0	5253.1	5200.1	5444.4	5955.5	6208.4	5728.6
25°	6124.1	6219.2	6578.0	6286.2	5529.7	5127.7	5094.2	5325.5	6073.3	6626.6	6306.7
27.5°	6781.1	6874.1	7157.2	6653.6	5648.6	5118.0	5078.0	5314.7	6179.2	7013.5	6858.9
30°	7269.6	7355.0	7547.3	6962.7	5794.5	5182.8	5133.1	5400.0	6270.0	7278.2	7397.1
32.5°	7653.2	7741.8	7846.7	7155.0	5986.8	5300.6	5208.8	5555.7	6388.8	7480.3	7795.9
35°	8053.1	8157.9	8150.3	7325.8	6166.2	5436.8	5347.1	5780.4	6575.8	7656.5	8301.6
37.5°	8559.9	8602.0	8548.0	7479.2	6381.3	5682.1	5632.4	6114.4	6841.6	7869.3	8892.7
40°	9074.3	9158.6	8880.8	7665.1	6642.8	6143.5	6138.1	6608.2	7157.2	8119.0	9465.5
42.5°	9515.2	9586.5	9192.1	7827.2	6959.4	6706.6	6747.6	7270.7	7571.1	8408.6	9925.8
45°	9847.0	9910.7	9479.5	7983.9	7376.6	7357.1	7599.2	7980.7	8093.0	8669.0	10196.0
47.5°	10129.0	10190.6	9679.4	8221.6	7892.0	8134.1	8555.6	8720.9	8539.4	8818.2	10498.6
50°	10366.7	10385.1	9816.7	8504.8	8531.8	9086.2	9494.7	9601.6	8980.3	9032.1	10761.2
52.5°	10614.2	10590.4	10053.4	8861.4	9223.4	9989.6	10286.8	10398.1	9402.8	9295.8	11143.7
55°	11168.6	11191.3	10584.0	9310.9	9922.6	10876.8	11268.0	11161.0	9870.7	9781.0	11630.0
57.5°	11838.6	11819.2	11330.7	10014.5	10634.8	11702.4	11994.2	11822.4	10495.3	10447.8	12122.8
60°	12099.0	12125.0	11955.3	10770.9	11337.2	12425.4	12723.7	12456.7	11244.2	11222.6	12494.6
62.5°	11837.5	11983.4	12098.0	11444.2	11935.9	12957.1	13253.2	12948.4	12025.6	12182.3	12755.0
65°	11316.6	11348.0	11738.1	12014.8	12224.4	13044.6	13199.2	13037.1	12678.3	13056.5	12743.1
67.5°	10640.2	10667.2	11124.3	12201.7	11852.7	12050.4	12158.5	12110.9	12476.2	13355.8	12156.3
70°	9996.1	9974.5	10457.5	11725.1	10318.1	10017.7	10107.4	9958.3	10765.5	12624.2	11005.4
72.5°	8742.5	8820.3	9339.0	10400.2	8169.8	7681.3	7876.9	7491.1	8280.0	10812.0	8932.7
75°	6848.1	6866.5	7732.1	8728.5	6163.0	5392.5	5657.2	5496.2	6342.4	9019.2	6168.4
77.5°	4741.9	4700.9	5631.3	6666.6	4395.0	3947.6	3952.0	3875.2	4428.5	6640.6	4190.8
80°	3011.8	2949.1	3525.1	4118.4	3020.4	3231.2	3125.3	3122.0	2883.2	4096.8	2534.1
82.5°	1627.5	1696.6	2227.2	2581.7	2166.7	2497.4	2288.8	2221.8	1978.7	2564.4	1621.0
85°	741.3	806.2	1187.6	1756.1	1645.8	1664.2	1112.0	1311.9	1637.2	2082.4	865.6
87.5°	72.4	92.9	245.3	828.9	561.9	443.1	165.3	318.8	411.7	740.3	69.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0
2.5°	5595.6	5539.5	5348.2	5190.4	5022.9	4895.4	4729.0	4617.6	4540.9	4425.3	4411.2
5°	5338.4	5201.2	4868.4	4529.0	4236.2	4015.7	3792.0	3586.7	3465.7	3427.8	3379.2
7.5°	4905.1	4673.8	4245.9	3856.9	3520.8	3192.3	2939.4	2760.0	2640.0	2569.8	2485.5
10°	4548.5	4280.5	3759.6	3283.0	3006.4	2802.1	2579.5	2387.2	2239.1	2112.7	2043.5
12.5°	4308.6	4006.0	3420.3	3033.4	2819.4	2602.2	2341.8	2125.7	1907.4	1763.6	1702.0
15°	4236.2	3916.3	3315.5	2909.1	2602.2	2318.0	2026.2	1744.2	1528.0	1391.9	1346.5
17.5°	4413.4	4026.5	3314.4	2743.8	2347.2	2007.9	1634.0	1369.2	1147.7	1046.1	1013.7
20°	4744.1	4238.3	3324.1	2580.6	2070.5	1592.9	1188.7	971.5	865.6	822.4	806.2
22.5°	5205.5	4561.5	3353.3	2419.6	1768.0	1223.3	890.5	780.2	742.4	734.8	731.6
25°	5774.0	4961.3	3451.6	2274.8	1512.9	933.7	744.6	694.9	673.2	665.7	664.6
27.5°	6297.0	5477.9	3570.5	2150.5	1266.5	805.1	673.2	631.1	609.5	608.4	610.6
30°	6769.2	5910.1	3669.9	2011.1	1079.6	715.4	626.8	584.6	564.1	563.0	569.5
32.5°	7177.7	6265.7	3743.4	1873.9	975.8	660.3	584.6	539.2	522.0	518.7	522.0
35°	7614.3	6620.1	3709.9	1766.9	916.4	614.9	553.3	509.0	488.5	478.7	478.7
37.5°	8112.5	6985.4	3652.6	1678.3	889.4	577.1	526.3	483.1	462.5	452.8	451.7
40°	8656.1	7350.6	3573.7	1599.4	862.4	554.4	507.9	462.5	437.7	427.9	425.8
42.5°	9135.9	7662.9	3508.9	1547.5	818.1	558.7	491.7	447.4	416.1	403.1	402.0
45°	9553.0	7977.4	3497.0	1517.2	781.3	552.2	487.4	435.5	398.8	384.7	382.6
47.5°	9879.4	8304.9	3565.1	1500.0	741.3	517.6	515.5	427.9	383.6	368.5	366.3
50°	10277.1	8769.5	3720.7	1464.3	704.6	485.2	544.7	426.9	371.7	352.3	346.9
52.5°	10806.6	9374.7	3931.4	1400.5	651.6	455.0	519.8	426.9	357.7	338.2	331.8
55°	11607.3	10146.3	4137.8	1310.8	577.1	415.0	469.0	413.9	337.2	319.9	315.6
57.5°	12137.9	10710.4	4269.7	1186.6	484.1	385.8	404.2	393.4	316.6	298.3	298.3
60°	12165.0	10861.7	4207.0	1029.9	425.8	358.8	351.2	396.6	298.3	278.8	276.6
62.5°	11853.7	10491.0	3880.6	889.4	394.4	329.6	317.7	348.0	279.9	260.4	257.2
65°	11367.4	9545.4	3314.4	822.4	377.1	303.7	286.4	285.3	260.4	242.1	237.7
67.5°	10473.7	8341.6	2723.3	783.5	368.5	274.5	258.3	252.9	237.7	222.6	220.5
70°	9156.4	6986.5	2184.0	767.3	364.2	244.2	231.3	224.8	211.8	199.9	198.8
72.5°	7123.7	5667.0	1802.5	756.5	362.0	216.1	202.1	193.4	185.9	175.1	175.1
75°	5116.9	4169.2	1375.7	681.9	335.0	185.9	170.7	165.3	154.5	145.9	148.1
77.5°	3225.8	2807.5	905.6	501.4	259.4	149.1	136.2	132.9	124.3	112.4	120.0
80°	2178.6	1974.4	528.4	315.6	163.2	109.1	104.8	103.7	94.0	81.0	82.1
82.5°	1482.7	1454.6	274.5	179.4	94.0	63.8	61.6	63.8	53.0	43.2	43.2
85°	579.2	791.0	129.7	70.2	30.3	9.7	14.0	15.1	8.6	4.3	5.4
87.5°	10.8	81.0	3.2	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0
2.5°	4389.6	4379.9	4396.1	4327.0	4341.0	4366.9	4379.9	4387.5	4494.5	4469.6	4537.7
5°	3424.6	3414.9	3477.6	3486.2	3518.6	3512.1	3543.5	3551.0	3589.9	3604.0	3699.1
7.5°	2490.9	2533.1	2604.4	2641.1	2696.2	2713.5	2697.3	2737.3	2656.3	2714.6	2731.9
10°	2001.4	1950.6	1920.3	2004.6	2015.4	2095.4	2063.0	2037.0	2084.6	2086.7	2132.1
12.5°	1666.4	1557.2	1484.8	1508.6	1534.5	1569.1	1574.5	1626.4	1661.0	1693.4	1720.4
15°	1306.5	1268.7	1202.8	1170.4	1207.1	1221.1	1254.6	1297.9	1334.6	1344.3	1381.1
17.5°	1002.9	1009.3	998.5	979.1	1001.8	1012.6	1014.7	1015.8	1025.5	1019.1	1073.1
20°	807.3	829.9	857.0	861.3	868.8	874.3	864.5	827.8	828.9	851.6	868.8
22.5°	730.5	734.8	765.1	774.8	798.6	788.9	760.8	743.5	741.3	746.7	755.4
25°	670.0	676.5	698.1	713.2	731.6	714.3	693.8	677.6	675.4	680.8	689.5
27.5°	616.0	625.7	645.2	660.3	677.6	661.4	641.9	627.9	626.8	625.7	631.1
30°	572.7	583.6	597.6	614.9	626.8	612.7	594.4	586.8	585.7	583.6	585.7
32.5°	529.5	546.8	560.9	569.5	581.4	570.6	556.5	552.2	544.7	538.2	534.9
35°	480.9	499.3	520.9	531.7	543.6	532.8	523.0	504.7	491.7	490.6	492.8
37.5°	452.8	460.4	477.7	496.0	507.9	502.5	484.1	465.8	462.5	462.5	464.7
40°	427.9	431.2	438.7	462.5	484.1	467.9	445.2	439.8	439.8	438.7	439.8
42.5°	403.1	406.3	406.3	424.7	459.3	433.3	416.1	416.1	416.1	417.1	420.4
45°	380.4	381.5	380.4	393.4	425.8	404.2	392.3	395.5	397.7	399.8	402.0
47.5°	360.9	362.0	360.9	371.7	388.0	379.3	372.8	377.1	381.5	384.7	386.9
50°	343.6	342.6	344.7	351.2	358.8	360.9	356.6	363.1	365.3	369.6	375.0
52.5°	328.5	327.4	329.6	332.8	343.6	343.6	343.6	349.1	353.4	357.7	365.3
55°	311.2	312.3	315.6	319.9	333.9	331.8	332.8	337.2	341.5	348.0	352.3
57.5°	295.0	297.2	301.5	308.0	322.0	321.0	322.0	324.2	329.6	332.8	337.2
60°	276.6	281.0	286.4	290.7	304.7	303.7	309.1	313.4	316.6	316.6	318.8
62.5°	258.3	264.8	270.2	273.4	288.5	289.6	297.2	300.4	302.6	300.4	303.7
65°	239.9	249.6	251.8	256.1	271.2	272.3	281.0	288.5	286.4	284.2	289.6
67.5°	221.5	233.4	232.3	237.7	252.9	255.0	262.6	275.6	271.2	269.1	273.4
70°	201.0	209.6	210.7	214.0	234.5	231.3	243.1	255.0	251.8	252.9	252.9
72.5°	178.3	185.9	185.9	192.4	214.0	208.6	218.3	231.3	231.3	230.2	230.2
75°	151.3	155.6	159.9	169.7	192.4	185.9	192.4	204.2	206.4	204.2	204.2
77.5°	122.1	128.6	130.8	143.7	159.9	158.9	165.3	170.7	175.1	172.9	172.9
80°	86.5	92.9	101.6	115.6	125.4	128.6	131.8	136.2	138.3	138.3	140.5
82.5°	48.6	58.4	65.9	80.0	84.3	100.5	99.4	102.7	99.4	87.5	97.3
85°	10.8	20.5	29.2	36.7	42.1	58.4	61.6	69.2	57.3	53.0	53.0
87.5°	0.0	0.0	0.0	0.0	0.0	8.6	17.3	23.8	20.5	17.3	17.3
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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 CATALOG NUMBER: GALN-SA3C-735-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0	5265.0
2.5°	4595.0	4689.0	4802.4	4998.0	5135.3	5283.3	5432.5	5591.3	5633.5	5676.7
5°	3725.0	3909.8	4010.3	4272.9	4548.5	4898.6	5185.0	5498.4	5629.1	5659.4
7.5°	2821.6	2947.0	3210.6	3476.5	3818.0	4185.4	4624.1	5112.6	5265.0	5328.7
10°	2237.0	2407.7	2639.0	2924.3	3223.6	3619.1	4114.1	4684.7	4900.8	4936.4
12.5°	1904.1	2094.3	2346.1	2647.6	2930.7	3229.0	3728.3	4317.2	4548.5	4625.2
15°	1522.6	1752.8	2043.5	2361.2	2669.2	2995.6	3501.3	4165.9	4432.9	4522.6
17.5°	1196.3	1382.2	1696.6	2041.4	2406.6	2819.4	3453.8	4238.3	4566.9	4650.1
20°	915.3	1048.2	1313.0	1677.2	2105.1	2645.4	3465.7	4511.7	4905.1	5018.6
22.5°	791.0	859.1	1020.1	1367.0	1845.8	2494.2	3514.3	4886.7	5361.1	5550.3
25°	716.5	752.1	842.9	1069.9	1598.3	2347.2	3625.6	5391.4	5998.7	6124.1
27.5°	652.7	678.7	734.8	898.0	1373.5	2211.0	3755.3	5951.2	6594.2	6781.1
30°	592.2	626.8	679.7	797.5	1229.8	2086.7	3918.5	6405.1	7095.6	7269.6
32.5°	545.7	580.3	628.9	727.3	1107.7	1956.0	4015.7	6803.8	7505.2	7653.2
35°	507.9	537.1	587.9	671.1	1014.7	1856.6	3996.3	7120.5	7901.8	8053.1
37.5°	480.9	505.7	556.5	618.1	944.5	1752.8	3986.5	7538.7	8384.8	8559.9
40°	456.0	482.0	528.4	583.6	874.3	1630.7	3991.9	7953.6	8899.2	9074.3
42.5°	436.6	465.8	503.6	573.8	801.8	1532.4	3991.9	8314.6	9346.6	9515.2
45°	420.4	451.7	488.5	572.7	744.6	1457.8	3964.9	8624.7	9703.2	9847.0
47.5°	406.3	440.9	493.9	553.3	730.5	1403.8	3941.2	8873.3	9993.9	10129.0
50°	396.6	437.7	525.2	530.6	734.8	1387.6	4055.7	9186.7	10250.0	10366.7
52.5°	389.0	438.7	524.1	497.1	727.3	1398.4	4294.5	9676.2	10605.6	10614.2
55°	373.9	437.7	497.1	459.3	695.9	1416.7	4601.4	10387.3	11162.1	11168.6
57.5°	358.8	425.8	461.4	426.9	632.2	1416.7	4971.0	11060.5	11833.2	11838.6
60°	343.6	443.1	405.2	398.8	549.0	1390.8	5361.1	11356.6	12043.9	12099.0
62.5°	328.5	446.3	362.0	373.9	488.5	1328.1	5651.8	11029.2	11758.6	11837.5
65°	311.2	359.9	333.9	348.0	457.1	1223.3	5560.0	10429.4	11222.6	11316.6
67.5°	290.7	304.7	303.7	321.0	446.3	1068.8	5075.8	9670.8	10645.6	10640.2
70°	265.8	273.4	276.6	295.0	425.8	948.8	4229.7	8686.3	9875.0	9996.1
72.5°	239.9	246.4	249.6	265.8	405.2	880.7	3283.0	7330.1	8553.4	8742.5
75°	211.8	216.1	220.5	234.5	383.6	780.2	2338.5	5595.6	6550.9	6848.1
77.5°	182.6	182.6	188.0	202.1	323.1	644.1	1569.1	3924.9	4438.3	4741.9
80°	148.1	149.1	147.0	162.1	237.7	440.9	891.5	2621.7	2953.4	3011.8
82.5°	113.5	110.2	111.3	118.9	177.2	300.4	475.5	1628.6	1659.9	1627.5
85°	71.3	71.3	69.2	77.8	113.5	156.7	259.4	997.4	779.2	741.3
87.5°	29.2	23.8	27.0	31.3	54.0	63.8	101.6	205.3	78.9	72.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)