

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: P452581

Luminaire Tested: **GALN-SA3C-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452581
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-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 18091 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

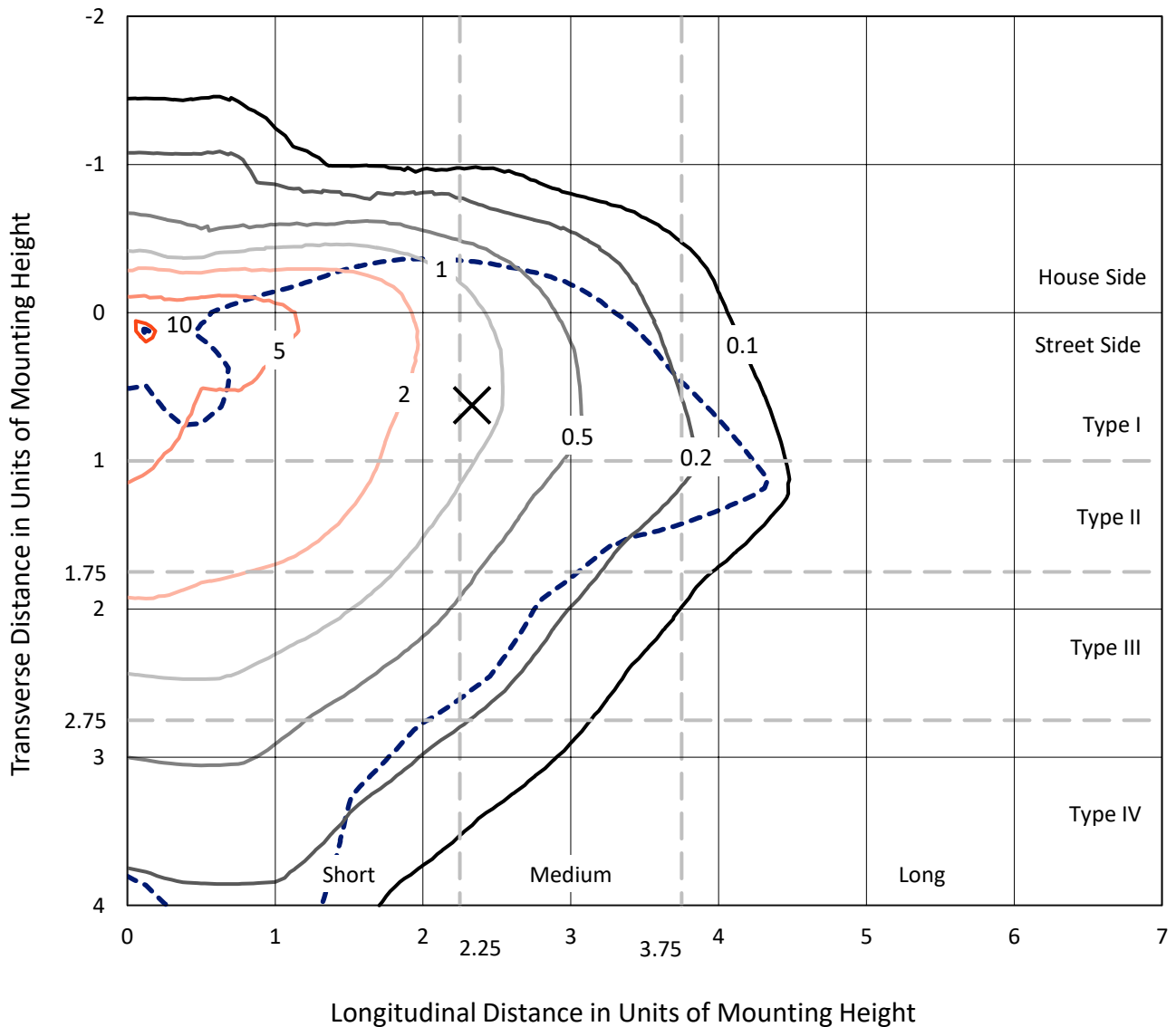
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

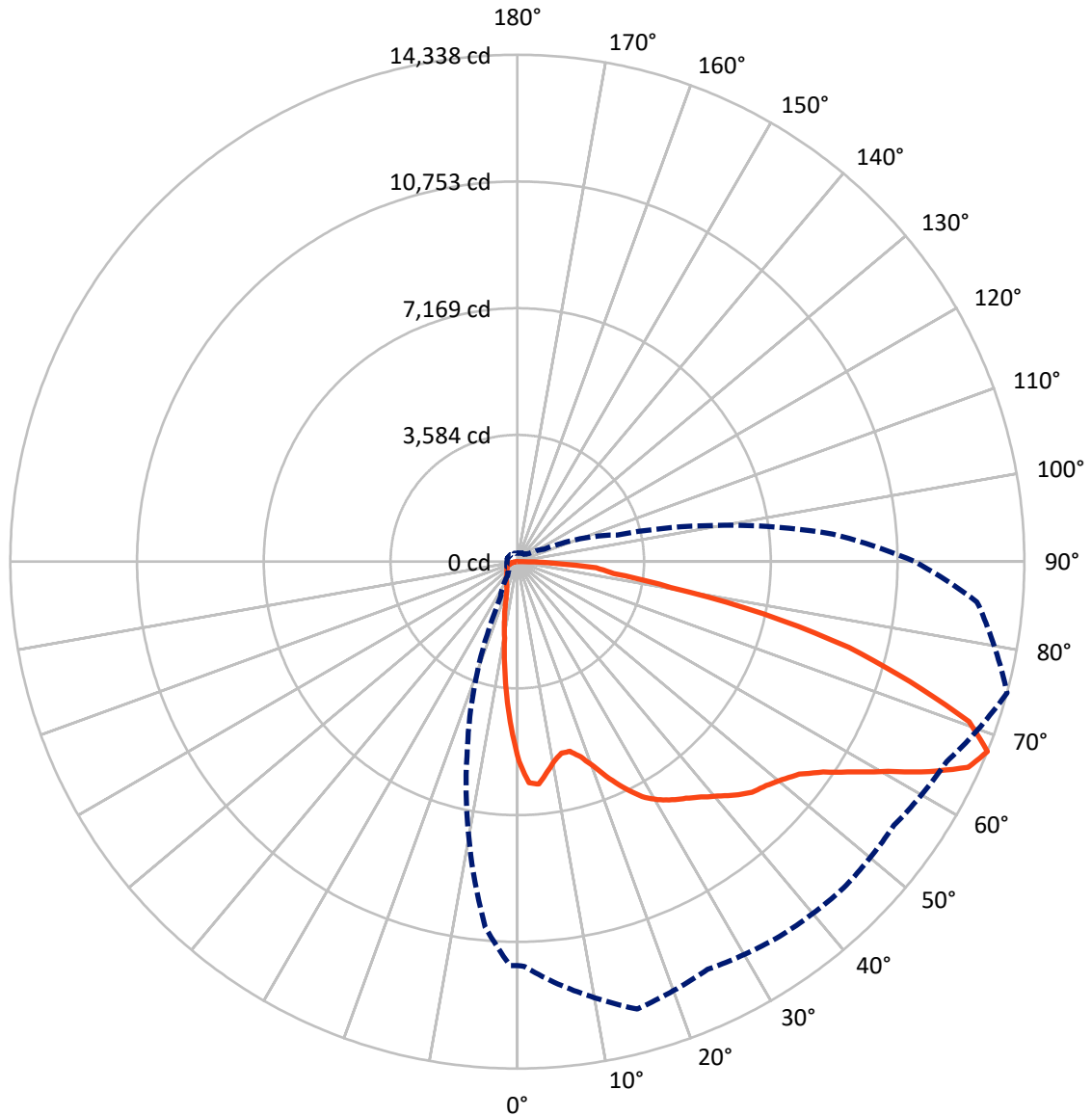
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	3057.8	0.0	3057.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	15033.2	0.0	15033.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	18091.0	0.0	18091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	2.4
10°-20°	894.1	4.9
20°-30°	1286.6	7.1
30°-40°	1853.0	10.2
40°-50°	2603.0	14.4
50°-60°	3630.2	20.1
60°-70°	4316.1	23.9
70°-80°	2541.9	14.1
80°-90°	537.5	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°	18091.0	100.0
0°-180°	18091.0	100.0

Coefficient of Utilization



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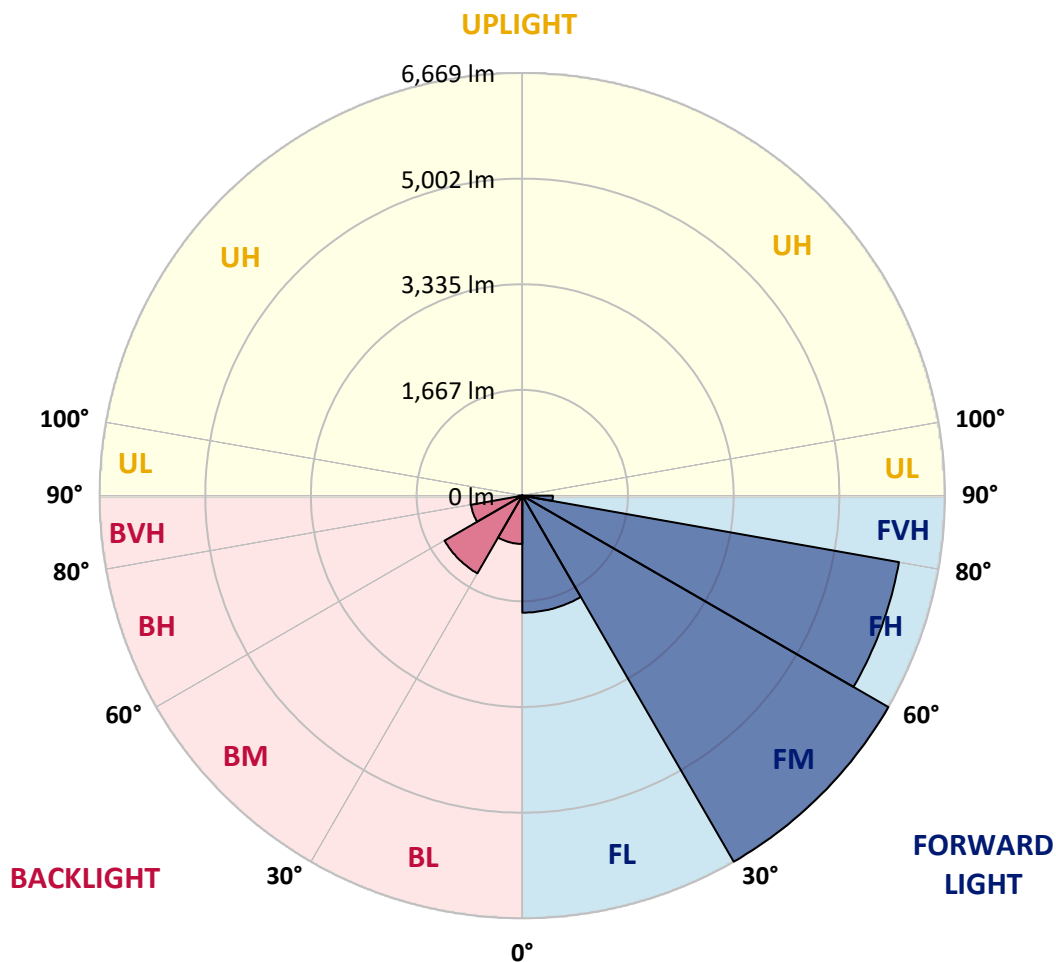
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1846.6	10.2			
FM	(30°-60°)	6669.5	36.9			
FH	(60°-80°)	6035.2	33.4			G3/7500
FVH	(80°-90°)	481.9	2.7			G3/500
BL	(0°-30°)	762.7	4.2	B2/1000		
BM	(30°-60°)	1416.7	7.8	B2/2500		
BH	(60°-80°)	822.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	55.6	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°	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1
2.5°	6094.1	6102.2	6154.4	6306.4	6410.8	6449.1	6475.7	6425.8	6377.1	6258.8	6080.1
5°	6075.5	6123.1	6258.8	6599.9	6869.0	6985.0	7019.8	6870.2	6623.1	6319.1	5953.7
7.5°	5720.5	5784.3	5993.1	6565.1	7039.5	7311.0	7275.1	7004.7	6559.3	6017.5	5507.0
10°	5299.4	5370.1	5621.9	6313.3	6924.7	7298.3	7298.3	6968.8	6377.1	5733.3	5145.1
12.5°	4965.3	5039.5	5327.2	6054.6	6685.7	7039.5	7098.7	6815.6	6246.0	5553.4	4907.3
15°	4855.1	4927.0	5236.7	5898.0	6432.8	6648.6	6668.3	6575.5	6182.2	5566.2	4896.8
17.5°	4992.0	5084.8	5398.0	5944.4	6200.8	6213.5	6228.6	6301.7	6189.2	5799.4	5108.0
20°	5387.6	5487.3	5814.5	6094.1	5997.8	5865.5	5873.6	6061.6	6271.6	6184.5	5612.6
22.5°	5958.3	6045.3	6380.6	6357.4	5911.9	5639.3	5582.4	5844.6	6393.4	6664.8	6149.7
25°	6574.3	6676.4	7061.6	6748.4	5936.3	5504.7	5468.8	5717.0	6519.8	7113.8	6770.4
27.5°	7279.7	7379.5	7683.4	7142.8	6063.9	5494.3	5451.4	5705.4	6633.5	7529.1	7363.2
30°	7804.1	7895.7	8102.2	7474.6	6220.5	5563.9	5510.5	5797.1	6731.0	7813.3	7941.0
32.5°	8215.9	8311.0	8423.6	7681.1	6427.0	5690.3	5591.7	5964.1	6858.6	8030.3	8369.0
35°	8645.1	8757.7	8749.6	7864.4	6619.6	5836.5	5740.2	6205.4	7059.3	8219.4	8912.0
37.5°	9189.2	9234.5	9176.5	8029.1	6850.5	6099.9	6046.5	6563.9	7344.7	8447.9	9546.5
40°	9741.4	9831.9	9533.8	8228.7	7131.2	6595.2	6589.4	7094.1	7683.4	8715.9	10161.4
42.5°	10214.8	10291.3	9867.9	8402.7	7471.1	7199.6	7243.7	7805.2	8127.7	9026.8	10655.6
45°	10570.9	10639.4	10176.5	8570.9	7918.9	7898.0	8157.9	8567.4	8688.1	9306.4	10945.6
47.5°	10873.7	10939.8	10391.1	8826.1	8472.3	8732.1	9184.6	9362.1	9167.2	9466.5	11270.5
50°	11128.9	11148.7	10538.4	9130.1	9159.1	9754.2	10192.7	10307.6	9640.5	9696.2	11552.4
52.5°	11394.6	11369.1	10792.5	9512.9	9901.5	10724.1	11043.1	11162.6	10094.1	9979.3	11963.1
55°	11989.7	12014.1	11362.1	9995.5	10652.1	11676.5	12096.5	11981.6	10596.4	10500.2	12485.1
57.5°	12709.0	12688.1	12163.8	10750.7	11416.6	12562.8	12876.1	12691.6	11267.0	11215.9	13014.1
60°	12988.6	13016.4	12834.3	11562.8	12170.7	13338.9	13659.1	13372.6	12070.9	12047.7	13413.2
62.5°	12707.8	12864.5	12987.4	12285.6	12813.4	13909.7	14227.6	13900.4	12909.7	13077.9	13692.8
65°	12148.7	12182.3	12601.1	12898.1	13123.2	14003.7	14169.6	13995.6	13610.4	14016.5	13680.0
67.5°	11422.4	11451.4	11942.2	13098.8	12724.1	12936.4	13052.4	13001.4	13393.5	14337.8	13050.1
70°	10731.0	10707.8	11226.4	12587.2	11076.7	10754.2	10850.5	10690.4	11557.0	13552.4	11814.6
72.5°	9385.3	9468.8	10025.7	11164.9	8770.4	8246.1	8456.0	8041.9	8888.8	11606.9	9589.5
75°	7351.6	7371.3	8300.6	9370.2	6616.1	5788.9	6073.2	5900.3	6808.7	9682.3	6621.9
77.5°	5090.6	5046.5	6045.3	7156.7	4718.2	4237.9	4242.5	4160.2	4754.1	7128.9	4498.9
80°	3233.2	3165.9	3784.3	4421.2	3242.5	3468.7	3355.0	3351.6	3095.2	4398.0	2720.5
82.5°	1747.1	1821.4	2391.0	2771.5	2326.0	2681.0	2457.1	2385.2	2124.2	2752.9	1740.2
85°	795.8	865.4	1275.0	1885.2	1766.8	1786.6	1193.8	1408.4	1757.6	2235.5	929.2
87.5°	77.7	99.8	263.3	889.8	603.3	475.6	177.5	342.2	442.0	794.7	74.2
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°	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1
2.5°	6007.1	5946.7	5741.4	5572.0	5392.2	5255.3	5076.6	4957.2	4874.8	4750.7	4735.6
5°	5730.9	5583.6	5226.3	4862.0	4547.6	4311.0	4070.8	3850.4	3720.5	3679.9	3627.7
7.5°	5265.7	5017.5	4558.1	4140.4	3779.6	3427.0	3155.5	2962.9	2834.1	2758.7	2668.3
10°	4882.9	4595.2	4036.0	3524.4	3227.4	3008.2	2769.2	2562.7	2403.7	2268.0	2193.8
12.5°	4625.4	4300.5	3671.7	3256.4	3026.7	2793.5	2514.0	2281.9	2047.6	1893.3	1827.2
15°	4547.6	4204.2	3559.2	3123.0	2793.5	2488.4	2175.2	1872.4	1640.4	1494.2	1445.5
17.5°	4737.9	4322.6	3558.1	2945.5	2519.8	2155.5	1754.1	1469.9	1232.0	1123.0	1088.2
20°	5092.9	4550.0	3568.5	2770.3	2222.8	1710.0	1276.1	1042.9	929.2	882.8	865.4
22.5°	5588.3	4896.8	3599.8	2597.5	1897.9	1313.2	955.9	837.6	797.0	788.9	785.4
25°	6198.5	5326.1	3705.4	2442.0	1624.2	1002.3	799.3	746.0	722.7	714.6	713.5
27.5°	6760.0	5880.6	3833.0	2308.6	1359.6	864.3	722.7	677.5	654.3	653.1	655.5
30°	7266.9	6344.6	3939.7	2159.0	1159.0	768.0	672.9	627.6	605.6	604.4	611.4
32.5°	7705.5	6726.3	4018.6	2011.6	1047.6	708.8	627.6	578.9	560.3	556.9	560.3
35°	8174.1	7106.8	3982.7	1896.8	983.8	660.1	594.0	546.4	524.4	513.9	513.9
37.5°	8708.9	7499.0	3921.2	1801.7	954.8	619.5	565.0	518.6	496.5	486.1	484.9
40°	9292.5	7891.1	3836.5	1717.0	925.8	595.1	545.3	496.5	469.8	459.4	457.1
42.5°	9807.6	8226.3	3766.9	1661.3	878.2	599.8	527.9	480.3	446.6	432.7	431.6
45°	10255.4	8563.9	3754.1	1628.8	838.8	592.8	523.2	467.5	428.1	413.0	410.7
47.5°	10605.7	8915.4	3827.2	1610.2	795.8	555.7	553.4	459.4	411.8	395.6	393.3
50°	11032.6	9414.3	3994.3	1571.9	756.4	520.9	584.7	458.2	399.1	378.2	372.4
52.5°	11601.1	10064.0	4220.5	1503.5	699.5	488.4	558.0	458.2	384.0	363.1	356.2
55°	12460.7	10892.3	4442.1	1407.2	619.5	445.5	503.5	444.3	362.0	343.4	338.8
57.5°	13030.4	11497.9	4583.6	1273.8	519.7	414.2	433.9	422.3	339.9	320.2	320.2
60°	13059.4	11660.3	4516.3	1105.6	457.1	385.2	377.0	425.8	320.2	299.3	297.0
62.5°	12725.2	11262.3	4166.0	954.8	423.4	353.8	341.1	373.6	300.5	279.6	276.1
65°	12203.2	10247.3	3558.1	882.8	404.9	326.0	307.4	306.3	279.6	259.9	255.2
67.5°	11243.8	8954.9	2923.5	841.1	395.6	294.7	277.3	271.5	255.2	239.0	236.7
70°	9829.6	7500.1	2344.6	823.7	391.0	262.2	248.3	241.3	227.4	214.6	213.5
72.5°	7647.4	6083.6	1935.1	812.1	388.6	232.0	216.9	207.7	199.5	187.9	187.9
75°	5493.1	4475.7	1476.8	732.0	359.6	199.5	183.3	177.5	165.9	156.6	158.9
77.5°	3462.9	3014.0	972.2	538.3	278.4	160.1	146.2	142.7	133.4	120.7	128.8
80°	2338.8	2119.5	567.3	338.8	175.2	117.2	112.5	111.4	100.9	87.0	88.2
82.5°	1591.7	1561.5	294.7	192.6	100.9	68.4	66.1	68.4	56.8	46.4	46.4
85°	621.8	849.2	139.2	75.4	32.5	10.4	15.1	16.2	9.3	4.6	5.8
87.5°	11.6	87.0	3.5	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°	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1
2.5°	4712.4	4701.9	4719.3	4645.1	4660.2	4688.0	4701.9	4710.0	4824.9	4798.2	4871.3
5°	3676.4	3665.9	3733.2	3742.5	3777.3	3770.4	3804.0	3812.1	3853.9	3869.0	3971.1
7.5°	2674.1	2719.3	2795.9	2835.3	2894.5	2913.0	2895.6	2938.6	2851.6	2914.2	2932.8
10°	2148.5	2094.0	2061.5	2152.0	2163.6	2249.5	2214.7	2186.8	2237.9	2240.2	2288.9
12.5°	1788.9	1671.7	1594.0	1619.5	1647.4	1684.5	1690.3	1746.0	1783.1	1817.9	1846.9
15°	1402.6	1362.0	1291.2	1256.4	1295.8	1310.9	1346.9	1393.3	1432.7	1443.2	1482.6
17.5°	1076.6	1083.5	1071.9	1051.1	1075.4	1087.0	1089.3	1090.5	1100.9	1094.0	1152.0
20°	866.6	891.0	920.0	924.6	932.7	938.5	928.1	888.6	889.8	914.2	932.7
22.5°	784.2	788.9	821.4	831.8	857.3	846.9	816.7	798.2	795.8	801.6	810.9
25°	719.3	726.2	749.4	765.7	785.4	766.8	744.8	727.4	725.1	730.9	740.2
27.5°	661.3	671.7	692.6	708.8	727.4	710.0	689.1	674.0	672.9	671.7	677.5
30°	614.9	626.5	641.5	660.1	672.9	657.8	638.1	629.9	628.8	626.5	628.8
32.5°	568.5	587.0	602.1	611.4	624.1	612.5	597.5	592.8	584.7	577.7	574.3
35°	516.2	536.0	559.2	570.8	583.5	571.9	561.5	541.8	527.9	526.7	529.0
37.5°	486.1	494.2	512.8	532.5	545.3	539.5	519.7	500.0	496.5	496.5	498.8
40°	459.4	462.9	471.0	496.5	519.7	502.3	478.0	472.2	472.2	471.0	472.2
42.5°	432.7	436.2	436.2	455.9	493.0	465.2	446.6	446.6	446.6	447.8	451.3
45°	408.4	409.5	408.4	422.3	457.1	433.9	421.1	424.6	426.9	429.2	431.6
47.5°	387.5	388.6	387.5	399.1	416.5	407.2	400.2	404.9	409.5	413.0	415.3
50°	368.9	367.8	370.1	377.0	385.2	387.5	382.8	389.8	392.1	396.8	402.6
52.5°	352.7	351.5	353.8	357.3	368.9	368.9	368.9	374.7	379.4	384.0	392.1
55°	334.1	335.3	338.8	343.4	358.5	356.2	357.3	362.0	366.6	373.6	378.2
57.5°	316.7	319.0	323.7	330.6	345.7	344.6	345.7	348.0	353.8	357.3	362.0
60°	297.0	301.6	307.4	312.1	327.2	326.0	331.8	336.4	339.9	339.9	342.2
62.5°	277.3	284.2	290.0	293.5	309.7	310.9	319.0	322.5	324.8	322.5	326.0
65°	257.5	268.0	270.3	274.9	291.2	292.3	301.6	309.7	307.4	305.1	310.9
67.5°	237.8	250.6	249.4	255.2	271.5	273.8	281.9	295.8	291.2	288.9	293.5
70°	215.8	225.1	226.2	229.7	251.7	248.3	261.0	273.8	270.3	271.5	271.5
72.5°	191.4	199.5	199.5	206.5	229.7	223.9	234.3	248.3	248.3	247.1	247.1
75°	162.4	167.1	171.7	182.1	206.5	199.5	206.5	219.3	221.6	219.3	219.3
77.5°	131.1	138.1	140.4	154.3	171.7	170.5	177.5	183.3	187.9	185.6	185.6
80°	92.8	99.8	109.1	124.1	134.6	138.1	141.5	146.2	148.5	148.5	150.8
82.5°	52.2	62.6	70.8	85.8	90.5	107.9	106.7	110.2	106.7	94.0	104.4
85°	11.6	22.0	31.3	39.4	45.2	62.6	66.1	74.2	61.5	56.8	56.8
87.5°	0.0	0.0	0.0	0.0	0.0	9.3	18.6	25.5	22.0	18.6	18.6
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-740-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1	5652.1
2.5°	4932.8	5033.7	5155.5	5365.5	5512.8	5671.8	5831.9	6002.4	6047.7	6094.1
5°	3998.9	4197.3	4305.2	4587.1	4882.9	5258.8	5566.2	5902.6	6043.0	6075.5
7.5°	3029.0	3163.6	3446.7	3732.1	4098.7	4493.1	4964.1	5488.5	5652.1	5720.5
10°	2401.4	2584.7	2833.0	3139.3	3460.6	3885.2	4416.5	5029.1	5261.1	5299.4
12.5°	2044.1	2248.3	2518.6	2842.3	3146.2	3466.4	4002.4	4634.6	4882.9	4965.3
15°	1634.6	1881.7	2193.8	2534.8	2865.5	3215.8	3758.8	4472.2	4758.8	4855.1
17.5°	1284.2	1483.8	1821.4	2191.4	2583.6	3026.7	3707.7	4550.0	4902.6	4992.0
20°	982.6	1125.3	1409.5	1800.5	2259.9	2839.9	3720.5	4843.5	5265.7	5387.6
22.5°	849.2	922.3	1095.1	1467.5	1981.5	2677.5	3772.7	5246.0	5755.3	5958.3
25°	769.2	807.4	904.9	1148.5	1715.8	2519.8	3892.2	5787.8	6439.8	6574.3
27.5°	700.7	728.5	788.9	964.1	1474.5	2373.6	4031.4	6388.7	7079.0	7279.7
30°	635.7	672.9	729.7	856.2	1320.2	2240.2	4206.6	6876.0	7617.3	7804.1
32.5°	585.9	623.0	675.2	780.8	1189.1	2099.8	4311.0	7304.1	8057.0	8215.9
35°	545.3	576.6	631.1	720.4	1089.3	1993.1	4290.1	7644.0	8482.7	8645.1
37.5°	516.2	542.9	597.5	663.6	1013.9	1881.7	4279.6	8092.9	9001.3	9189.2
40°	489.6	517.4	567.3	626.5	938.5	1750.6	4285.4	8538.4	9553.5	9741.4
42.5°	468.7	500.0	540.6	616.0	860.8	1645.0	4285.4	8925.9	10033.8	10214.8
45°	451.3	484.9	524.4	614.9	799.3	1565.0	4256.4	9258.8	10416.6	10570.9
47.5°	436.2	473.3	530.2	594.0	784.2	1507.0	4230.9	9525.7	10728.7	10873.7
50°	425.8	469.8	563.8	569.6	788.9	1489.6	4353.9	9862.1	11003.6	11128.9
52.5°	417.6	471.0	562.7	533.7	780.8	1501.2	4610.3	10387.6	11385.3	11394.6
55°	401.4	469.8	533.7	493.0	747.1	1520.9	4939.7	11151.0	11982.8	11989.7
57.5°	385.2	457.1	495.4	458.2	678.7	1520.9	5336.5	11873.7	12703.2	12709.0
60°	368.9	475.6	435.0	428.1	589.3	1493.1	5755.3	12191.6	12929.4	12988.6
62.5°	352.7	479.1	388.6	401.4	524.4	1425.8	6067.4	11840.1	12623.2	12707.8
65°	334.1	386.3	358.5	373.6	490.7	1313.2	5968.8	11196.2	12047.7	12148.7
67.5°	312.1	327.2	326.0	344.6	479.1	1147.3	5449.0	10381.8	11428.2	11422.4
70°	285.4	293.5	297.0	316.7	457.1	1018.6	4540.7	9325.0	10601.1	10731.0
72.5°	257.5	264.5	268.0	285.4	435.0	945.5	3524.4	7869.0	9182.3	9385.3
75°	227.4	232.0	236.7	251.7	411.8	837.6	2510.5	6007.1	7032.6	7351.6
77.5°	196.1	196.1	201.9	216.9	346.9	691.4	1684.5	4213.5	4764.6	5090.6
80°	158.9	160.1	157.8	174.0	255.2	473.3	957.1	2814.4	3170.6	3233.2
82.5°	121.8	118.3	119.5	127.6	190.3	322.5	510.4	1748.3	1781.9	1747.1
85°	76.6	76.6	74.2	83.5	121.8	168.2	278.4	1070.8	836.4	795.8
87.5°	31.3	25.5	29.0	33.6	58.0	68.4	109.1	220.4	84.7	77.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)