

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: P453973

Luminaire Tested: **GALN-SA5A-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453973
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-SA5A-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 19741 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

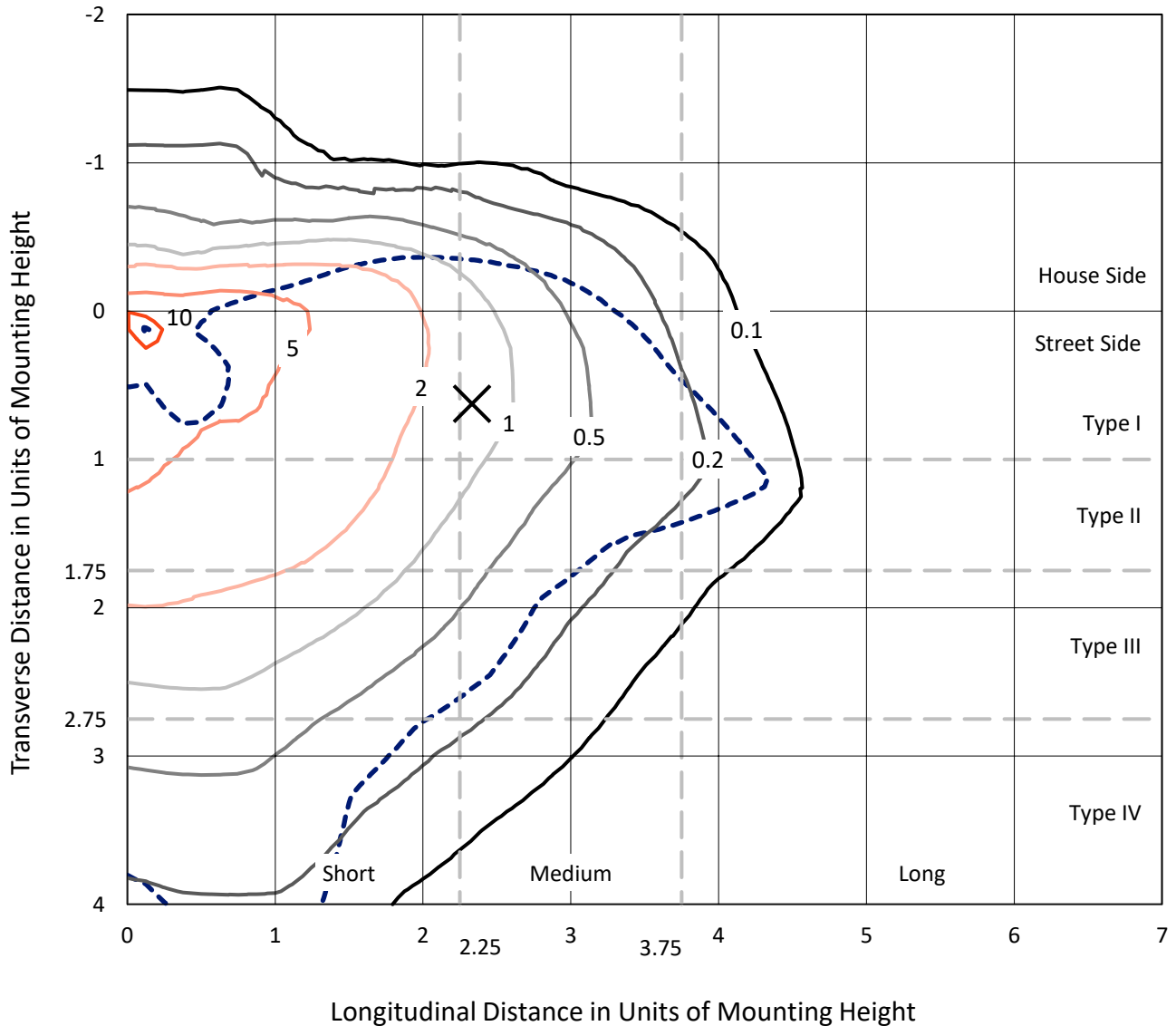
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

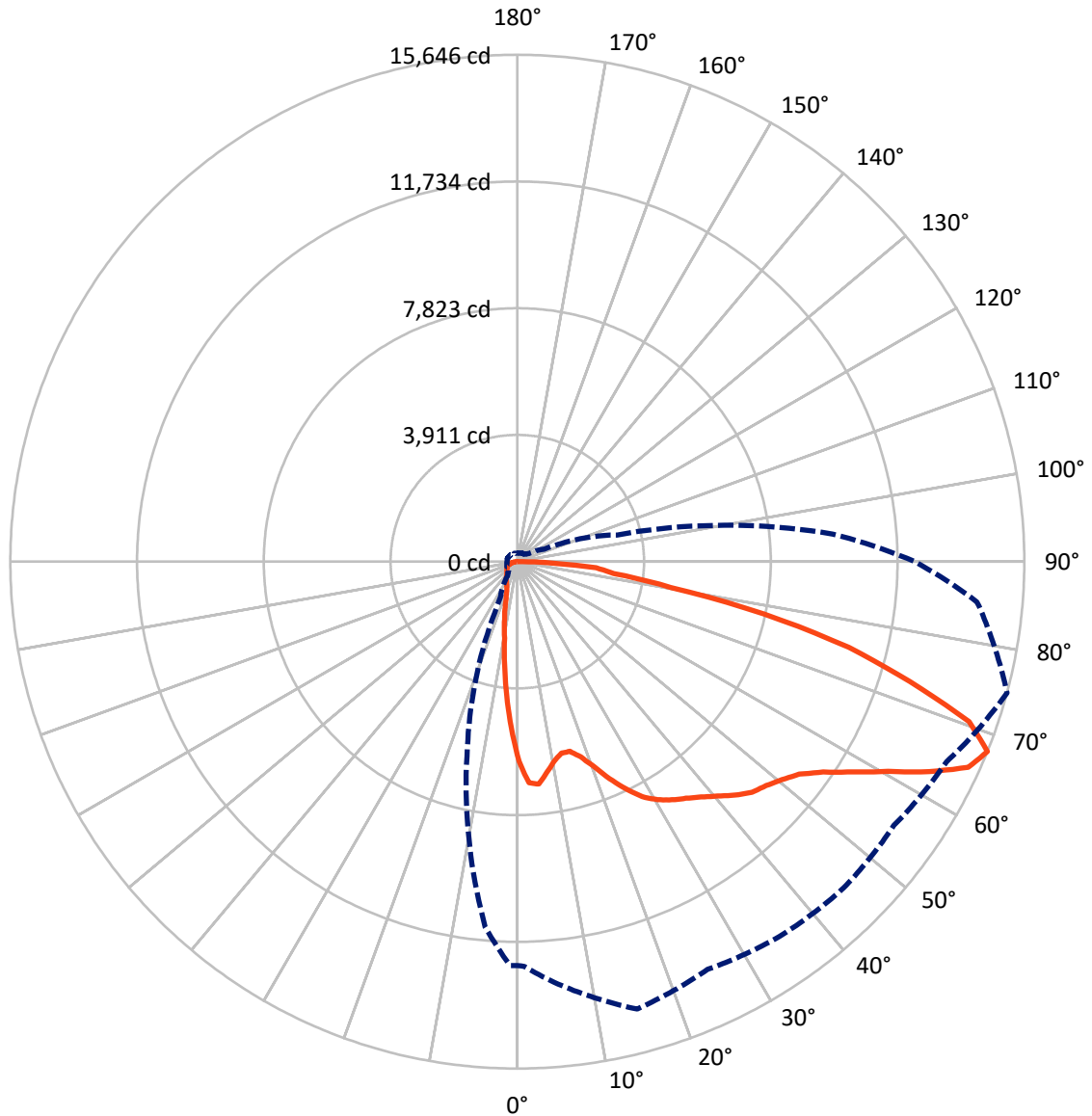
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	3336.7	0.0	3336.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	16404.3	0.0	16404.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	19741.0	0.0	19741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.8	2.4
10°-20°	975.6	4.9
20°-30°	1403.9	7.1
30°-40°	2022.0	10.2
40°-50°	2840.4	14.4
50°-60°	3961.3	20.1
60°-70°	4709.7	23.9
70°-80°	2773.8	14.1
80°-90°	586.5	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°	19741.0	100.0
0°-180°	19741.0	100.0

Coefficient of Utilization



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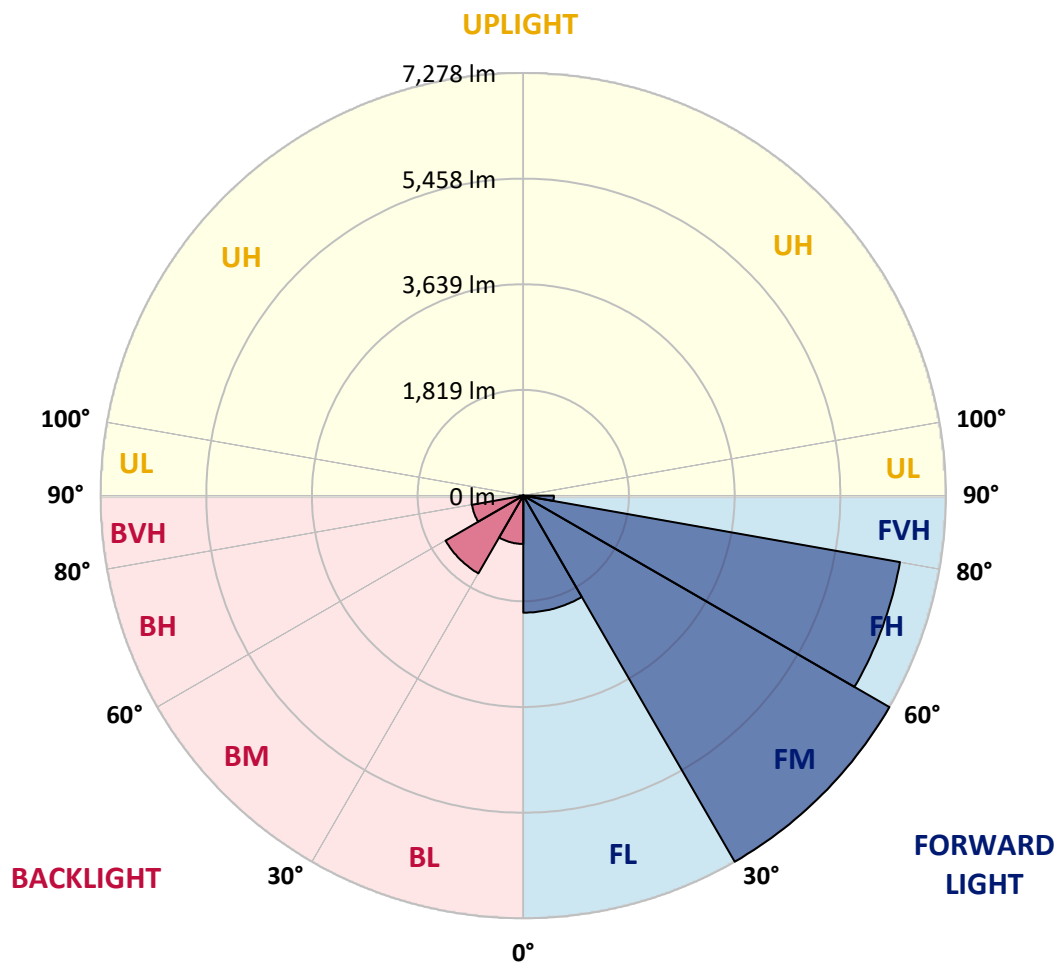
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2015.0	10.2			
FM	(30°-60°)	7277.8	36.9			
FH	(60°-80°)	6585.7	33.4			G3/7500
FVH	(80°-90°)	525.9	2.7			G4/750
BL	(0°-30°)	832.3	4.2	B2/1000		
BM	(30°-60°)	1545.9	7.8	B2/2500		
BH	(60°-80°)	897.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	60.7	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6
2.5°	6649.9	6658.7	6715.7	6881.5	6995.5	7037.2	7066.4	7011.9	6958.8	6829.6	6634.7
5°	6629.6	6681.5	6829.6	7201.8	7495.5	7622.1	7660.1	7496.8	7227.1	6895.5	6496.7
7.5°	6242.2	6311.9	6539.7	7163.8	7681.6	7977.8	7938.6	7643.6	7157.5	6566.3	6009.3
10°	5782.7	5859.9	6134.6	6889.1	7556.3	7963.9	7963.9	7604.4	6958.8	6256.2	5614.3
12.5°	5418.1	5499.2	5813.1	6606.8	7295.5	7681.6	7746.2	7437.3	6815.7	6060.0	5354.8
15°	5297.9	5376.4	5714.4	6435.9	7019.5	7255.0	7276.5	7175.2	6746.1	6073.9	5343.4
17.5°	5447.2	5548.5	5890.3	6486.6	6766.3	6780.3	6796.7	6876.5	6753.7	6328.3	5573.8
20°	5878.9	5987.8	6344.8	6649.9	6544.8	6400.5	6409.3	6614.4	6843.6	6748.6	6124.5
22.5°	6501.8	6596.7	6962.6	6937.2	6451.1	6153.6	6091.6	6377.7	6976.5	7272.7	6710.6
25°	7174.0	7285.4	7705.6	7363.8	6477.7	6006.8	5967.5	6238.4	7114.5	7762.6	7387.9
27.5°	7943.6	8052.5	8384.2	7794.3	6617.0	5995.4	5948.6	6225.8	7238.5	8215.8	8034.8
30°	8515.8	8615.8	8841.2	8156.3	6787.9	6071.3	6013.1	6325.8	7344.9	8526.0	8665.2
32.5°	8965.2	9069.0	9191.8	8381.6	7013.2	6209.3	6101.7	6508.1	7484.1	8762.7	9132.3
35°	9433.6	9556.4	9547.6	8581.7	7223.3	6368.8	6263.8	6771.4	7703.1	8969.0	9724.8
37.5°	10027.3	10076.7	10013.4	8761.4	7475.2	6656.2	6598.0	7162.6	8014.5	9218.4	10417.2
40°	10629.9	10728.7	10403.3	8979.2	7781.6	7196.7	7190.4	7741.1	8384.2	9510.8	11088.2
42.5°	11146.4	11230.0	10767.9	9169.0	8152.5	7856.3	7904.4	8517.1	8869.0	9850.1	11627.5
45°	11535.1	11609.7	11104.6	9352.6	8641.2	8618.4	8901.9	9348.8	9480.5	10155.2	11943.9
47.5°	11865.5	11937.6	11338.8	9631.1	9245.0	9528.6	10022.3	10216.0	10003.3	10329.9	12298.4
50°	12144.0	12165.5	11499.6	9962.8	9994.4	10643.8	11122.4	11247.7	10519.8	10580.5	12606.0
52.5°	12433.9	12406.0	11776.8	10380.5	10804.6	11702.2	12050.3	12180.7	11014.8	10889.4	13054.2
55°	13083.3	13109.9	12398.4	10907.2	11623.7	12741.5	13199.7	13074.4	11562.9	11457.8	13623.8
57.5°	13868.1	13845.4	13273.2	11731.3	12457.9	13708.6	14050.4	13849.1	12294.6	12238.9	14201.1
60°	14173.2	14203.6	14004.9	12617.4	13280.8	14555.5	14904.9	14592.2	13171.9	13146.6	14636.6
62.5°	13866.9	14037.8	14172.0	13406.1	13982.1	15178.4	15525.2	15168.2	14087.1	14270.7	14941.6
65°	13256.7	13293.4	13750.4	14074.5	14320.1	15280.9	15461.9	15272.0	14851.8	15294.8	14927.7
67.5°	12464.2	12495.9	13031.4	14293.5	13884.6	14116.3	14242.9	14187.2	14615.0	15645.5	14240.3
70°	11709.7	11684.4	12250.3	13735.2	12087.0	11735.1	11840.1	11665.4	12611.1	14788.5	12892.1
72.5°	10241.3	10332.4	10940.1	12183.2	9570.3	8998.1	9227.3	8775.3	9699.5	12665.5	10464.1
75°	8022.1	8043.6	9057.6	10224.8	7219.5	6316.9	6627.1	6438.5	7429.7	10565.4	7225.9
77.5°	5554.9	5506.7	6596.7	7809.5	5148.5	4624.4	4629.5	4539.6	5187.7	7779.1	4909.2
80°	3528.1	3454.7	4129.4	4824.4	3538.2	3785.1	3661.0	3657.2	3377.5	4799.1	2968.6
82.5°	1906.5	1987.5	2609.1	3024.3	2538.2	2925.5	2681.2	2602.7	2317.9	3004.0	1898.9
85°	868.4	944.4	1391.2	2057.1	1928.0	1949.5	1302.6	1536.8	1917.9	2439.4	1014.0
87.5°	84.8	108.9	287.4	971.0	658.3	519.0	193.7	373.4	482.3	867.2	81.0
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°	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6
2.5°	6554.9	6489.1	6265.0	6080.2	5884.0	5734.6	5539.7	5409.3	5319.4	5183.9	5167.5
5°	6253.6	6092.9	5703.0	5305.5	4962.4	4704.2	4442.1	4201.6	4059.8	4015.5	3958.5
7.5°	5746.0	5475.1	4973.8	4518.1	4124.4	3739.5	3443.3	3233.2	3092.6	3010.4	2911.6
10°	5328.3	5014.3	4404.1	3845.9	3521.8	3282.5	3021.7	2796.4	2623.0	2474.9	2393.9
12.5°	5047.2	4692.8	4006.6	3553.4	3302.8	3048.3	2743.2	2490.1	2234.3	2066.0	1993.8
15°	4962.4	4587.7	3883.8	3407.9	3048.3	2715.4	2373.6	2043.2	1790.0	1630.5	1577.3
17.5°	5170.0	4716.8	3882.6	3214.2	2749.6	2352.1	1914.1	1603.9	1344.4	1225.4	1187.4
20°	5557.4	4964.9	3894.0	3023.0	2425.5	1866.0	1392.5	1138.1	1014.0	963.4	944.4
22.5°	6097.9	5343.4	3928.1	2834.4	2071.0	1433.0	1043.1	914.0	869.7	860.8	857.0
25°	6763.8	5811.8	4043.3	2664.8	1772.3	1093.8	872.2	814.0	788.7	779.8	778.5
27.5°	7376.5	6416.9	4182.6	2519.2	1483.7	943.1	788.7	739.3	714.0	712.7	715.2
30°	7929.7	6923.3	4299.1	2355.9	1264.7	838.0	734.2	684.9	660.8	659.5	667.1
32.5°	8408.2	7339.8	4385.1	2195.1	1143.1	773.5	684.9	631.7	611.4	607.6	611.4
35°	8919.7	7755.0	4345.9	2069.8	1073.5	720.3	648.2	596.2	572.2	560.8	560.8
37.5°	9503.3	8182.9	4278.8	1966.0	1041.9	676.0	616.5	565.9	541.8	530.4	529.2
40°	10140.0	8610.8	4186.4	1873.6	1010.2	649.4	595.0	541.8	512.7	501.3	498.8
42.5°	10702.1	8976.6	4110.4	1812.8	958.3	654.5	576.0	524.1	487.4	472.2	470.9
45°	11190.7	9345.0	4096.5	1777.3	915.3	646.9	570.9	510.2	467.1	450.7	448.1
47.5°	11573.0	9728.6	4176.3	1757.1	868.4	606.4	603.8	501.3	449.4	431.7	429.1
50°	12038.9	10272.9	4358.6	1715.3	825.4	568.4	638.0	500.0	435.5	412.7	406.4
52.5°	12659.2	10981.8	4605.4	1640.6	763.3	533.0	608.9	500.0	419.0	396.2	388.6
55°	13597.2	11885.7	4847.2	1535.6	676.0	486.1	549.4	484.8	395.0	374.7	369.6
57.5°	14218.8	12546.5	5001.6	1390.0	567.1	451.9	473.5	460.8	370.9	349.4	349.4
60°	14250.4	12723.7	4928.2	1206.4	498.8	420.3	411.4	464.6	349.4	326.6	324.1
62.5°	13885.9	12289.5	4545.9	1041.9	462.1	386.1	372.2	407.6	327.9	305.1	301.3
65°	13316.2	11181.9	3882.6	963.4	441.8	355.7	335.5	334.2	305.1	283.6	278.5
67.5°	12269.3	9771.6	3190.1	917.8	431.7	321.5	302.6	296.2	278.5	260.8	258.2
70°	10726.1	8184.2	2558.4	898.8	426.6	286.1	270.9	263.3	248.1	234.2	232.9
72.5°	8344.9	6638.5	2111.6	886.1	424.1	253.2	236.7	226.6	217.7	205.1	205.1
75°	5994.1	4883.9	1611.5	798.8	392.4	217.7	200.0	193.7	181.0	170.9	173.4
77.5°	3778.8	3288.9	1060.8	587.4	303.8	174.7	159.5	155.7	145.6	131.7	140.5
80°	2552.1	2312.8	619.0	369.6	191.2	127.9	122.8	121.5	110.1	94.9	96.2
82.5°	1736.8	1703.9	321.5	210.1	110.1	74.7	72.2	74.7	62.0	50.6	50.6
85°	678.5	926.7	151.9	82.3	35.4	11.4	16.5	17.7	10.1	5.1	6.3
87.5°	12.7	94.9	3.8	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°	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6
2.5°	5142.2	5130.8	5149.8	5068.7	5085.2	5115.6	5130.8	5139.6	5265.0	5235.8	5315.6
5°	4011.7	4000.3	4073.7	4083.9	4121.8	4114.2	4150.9	4159.8	4205.4	4221.8	4333.2
7.5°	2917.9	2967.3	3050.9	3093.9	3158.5	3178.7	3159.7	3206.6	3111.6	3180.0	3200.2
10°	2344.5	2285.0	2249.5	2348.3	2360.9	2454.6	2416.6	2386.3	2442.0	2444.5	2497.7
12.5°	1952.0	1824.2	1739.4	1767.2	1797.6	1838.1	1844.4	1905.2	1945.7	1983.7	2015.3
15°	1530.5	1486.2	1409.0	1371.0	1414.0	1430.5	1469.7	1520.4	1563.4	1574.8	1617.8
17.5°	1174.8	1182.4	1169.7	1146.9	1173.5	1186.2	1188.7	1190.0	1201.4	1193.8	1257.1
20°	945.6	972.2	1003.9	1008.9	1017.8	1024.1	1012.7	969.7	971.0	997.5	1017.8
22.5°	855.8	860.8	896.3	907.7	935.5	924.1	891.2	871.0	868.4	874.7	884.9
25°	784.9	792.5	817.8	835.5	857.0	836.8	812.7	793.7	791.2	797.5	807.7
27.5°	721.6	733.0	755.8	773.5	793.7	774.7	752.0	735.5	734.2	733.0	739.3
30°	670.9	683.6	700.1	720.3	734.2	717.8	696.3	687.4	686.1	683.6	686.1
32.5°	620.3	640.6	657.0	667.1	681.1	668.4	651.9	646.9	638.0	630.4	626.6
35°	563.3	584.9	610.2	622.8	636.8	624.1	612.7	591.2	576.0	574.7	577.3
37.5°	530.4	539.3	559.5	581.1	595.0	588.7	567.1	545.6	541.8	541.8	544.3
40°	501.3	505.1	514.0	541.8	567.1	548.1	521.6	515.2	515.2	514.0	515.2
42.5°	472.2	476.0	476.0	497.5	538.0	507.6	487.4	487.4	487.4	488.6	492.4
45°	445.6	446.9	445.6	460.8	498.8	473.5	459.5	463.3	465.9	468.4	470.9
47.5°	422.8	424.1	422.8	435.5	454.5	444.3	436.7	441.8	446.9	450.7	453.2
50°	402.6	401.3	403.8	411.4	420.3	422.8	417.8	425.3	427.9	432.9	439.3
52.5°	384.8	383.6	386.1	389.9	402.6	402.6	402.6	408.9	414.0	419.0	427.9
55°	364.6	365.9	369.6	374.7	391.2	388.6	389.9	395.0	400.0	407.6	412.7
57.5°	345.6	348.1	353.2	360.8	377.2	376.0	377.2	379.8	386.1	389.9	395.0
60°	324.1	329.1	335.5	340.5	357.0	355.7	362.1	367.1	370.9	370.9	373.4
62.5°	302.6	310.2	316.5	320.3	338.0	339.3	348.1	351.9	354.5	351.9	355.7
65°	281.0	292.4	295.0	300.0	317.7	319.0	329.1	338.0	335.5	332.9	339.3
67.5°	259.5	273.4	272.2	278.5	296.2	298.8	307.6	322.8	317.7	315.2	320.3
70°	235.5	245.6	246.9	250.7	274.7	270.9	284.8	298.8	295.0	296.2	296.2
72.5°	208.9	217.7	217.7	225.3	250.7	244.3	255.7	270.9	270.9	269.6	269.6
75°	177.2	182.3	187.4	198.7	225.3	217.7	225.3	239.3	241.8	239.3	239.3
77.5°	143.0	150.6	153.2	168.4	187.4	186.1	193.7	200.0	205.1	202.5	202.5
80°	101.3	108.9	119.0	135.5	146.8	150.6	154.4	159.5	162.0	162.0	164.6
82.5°	57.0	68.4	77.2	93.7	98.7	117.7	116.5	120.3	116.5	102.5	113.9
85°	12.7	24.1	34.2	43.0	49.4	68.4	72.2	81.0	67.1	62.0	62.0
87.5°	0.0	0.0	0.0	0.0	0.0	10.1	20.3	27.9	24.1	20.3	20.3
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-SA5A-740-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6
2.5°	5382.7	5492.8	5625.7	5854.9	6015.6	6189.1	6363.8	6549.9	6599.2	6649.9
5°	4363.6	4580.1	4697.8	5005.4	5328.3	5738.4	6073.9	6441.0	6594.2	6629.6
7.5°	3305.3	3452.2	3761.0	4072.5	4472.5	4902.9	5416.9	5989.1	6167.6	6242.2
10°	2620.5	2820.5	3091.4	3425.6	3776.2	4239.6	4819.4	5487.8	5740.9	5782.7
12.5°	2230.5	2453.4	2748.3	3101.5	3433.2	3782.6	4367.4	5057.3	5328.3	5418.1
15°	1783.7	2053.3	2393.9	2766.0	3126.8	3509.1	4101.6	4880.1	5192.8	5297.9
17.5°	1401.4	1619.1	1987.5	2391.3	2819.2	3302.8	4045.9	4964.9	5349.8	5447.2
20°	1072.2	1227.9	1538.1	1964.7	2466.0	3099.0	4059.8	5285.2	5746.0	5878.9
22.5°	926.7	1006.4	1195.0	1601.4	2162.2	2921.7	4116.8	5724.5	6280.2	6501.8
25°	839.3	881.1	987.4	1253.3	1872.3	2749.6	4247.2	6315.7	7027.1	7174.0
27.5°	764.6	795.0	860.8	1052.0	1609.0	2590.1	4399.1	6971.4	7724.6	7943.6
30°	693.7	734.2	796.3	934.2	1440.6	2444.5	4590.2	7503.1	8312.0	8515.8
32.5°	639.3	679.8	736.8	852.0	1297.6	2291.3	4704.2	7970.2	8791.8	8965.2
35°	595.0	629.2	688.7	786.1	1188.7	2174.8	4681.4	8341.1	9256.4	9433.6
37.5°	563.3	592.4	651.9	724.1	1106.4	2053.3	4670.0	8831.0	9822.3	10027.3
40°	534.2	564.6	619.0	683.6	1024.1	1910.3	4676.3	9317.2	10424.8	10629.9
42.5°	511.4	545.6	589.9	672.2	939.3	1795.1	4676.3	9740.0	10948.9	11146.4
45°	492.4	529.2	572.2	670.9	872.2	1707.7	4644.7	10103.3	11366.7	11535.1
47.5°	476.0	516.5	578.5	648.2	855.8	1644.4	4616.8	10394.5	11707.2	11865.5
50°	464.6	512.7	615.2	621.6	860.8	1625.4	4751.0	10761.6	12007.2	12144.0
52.5°	455.7	514.0	614.0	582.3	852.0	1638.1	5030.8	11335.0	12423.7	12433.9
55°	438.0	512.7	582.3	538.0	815.3	1659.6	5390.3	12168.0	13075.7	13083.3
57.5°	420.3	498.8	540.5	500.0	740.6	1659.6	5823.2	12956.7	13861.8	13868.1
60°	402.6	519.0	474.7	467.1	643.1	1629.2	6280.2	13303.5	14108.7	14173.2
62.5°	384.8	522.8	424.1	438.0	572.2	1555.8	6620.8	12920.0	13774.5	13866.9
65°	364.6	421.6	391.2	407.6	535.5	1433.0	6513.2	12217.4	13146.6	13256.7
67.5°	340.5	357.0	355.7	376.0	522.8	1252.0	5946.0	11328.7	12470.6	12464.2
70°	311.4	320.3	324.1	345.6	498.8	1111.5	4954.8	10175.5	11568.0	11709.7
72.5°	281.0	288.6	292.4	311.4	474.7	1031.7	3845.9	8586.7	10019.7	10241.3
75°	248.1	253.2	258.2	274.7	449.4	914.0	2739.4	6554.9	7674.0	8022.1
77.5°	213.9	213.9	220.3	236.7	378.5	754.5	1838.1	4597.8	5199.1	5554.9
80°	173.4	174.7	172.2	189.9	278.5	516.5	1044.4	3071.1	3459.8	3528.1
82.5°	132.9	129.1	130.4	139.3	207.6	351.9	557.0	1907.7	1944.5	1906.5
85°	83.6	83.6	81.0	91.1	132.9	183.6	303.8	1168.4	912.7	868.4
87.5°	34.2	27.9	31.6	36.7	63.3	74.7	119.0	240.5	92.4	84.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)