

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: P453944

Luminaire Tested: **GALN-SA5A-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453944
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-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 17978 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

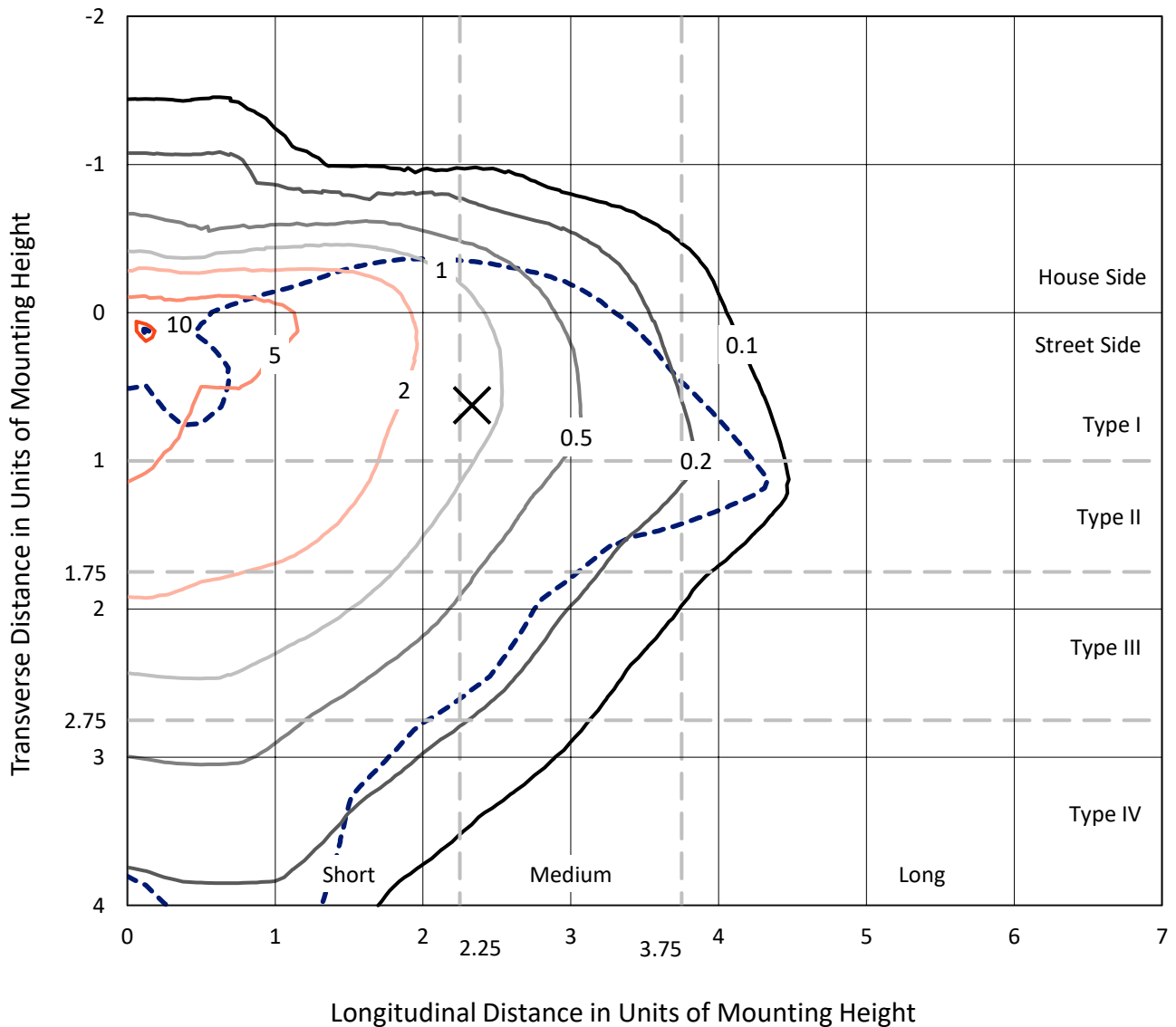
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

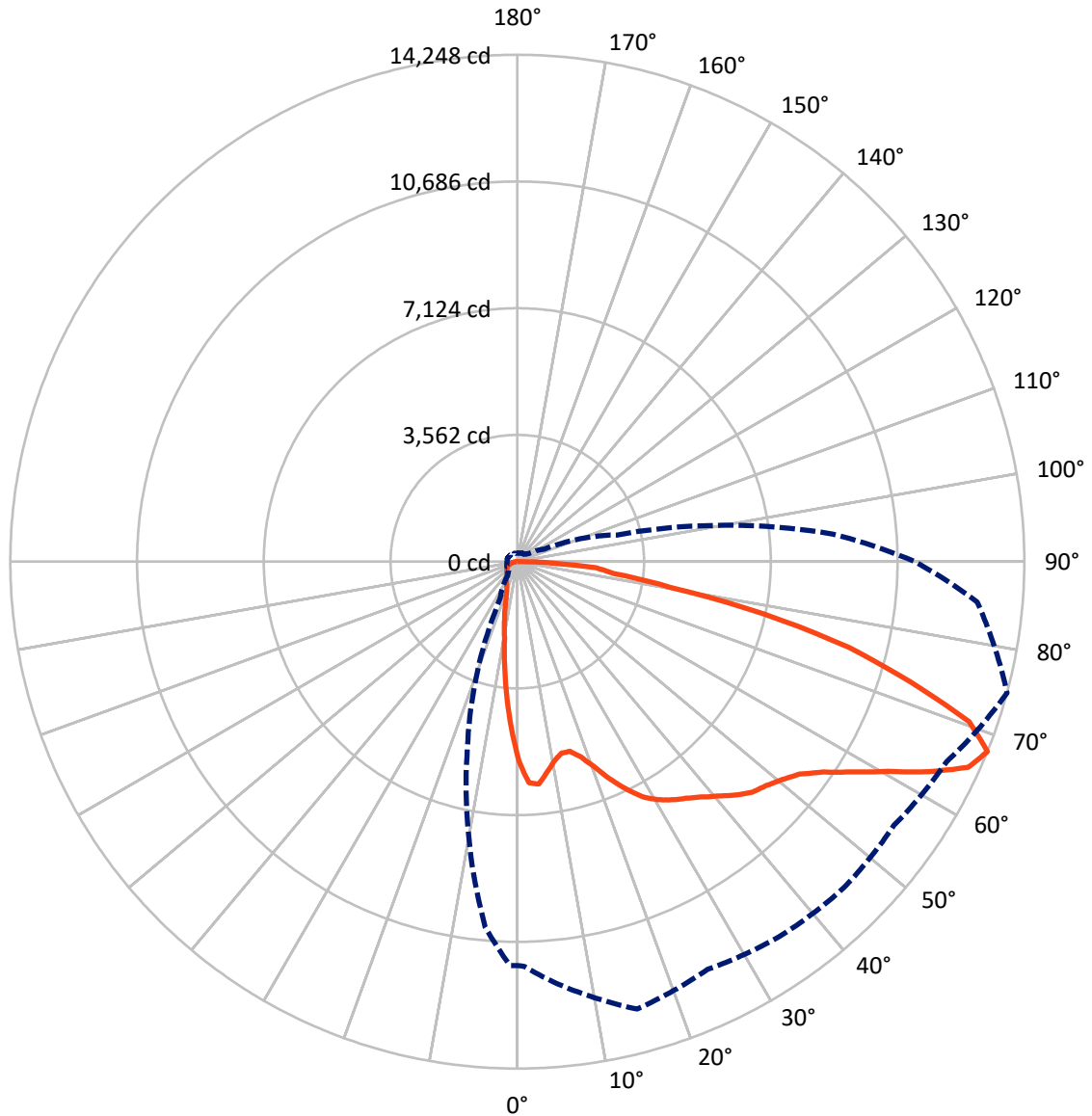
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3038.7	0.0	3038.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	14939.3	0.0	14939.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	17978.0	0.0	17978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	2.4
10°-20°	888.5	4.9
20°-30°	1278.5	7.1
30°-40°	1841.4	10.2
40°-50°	2586.7	14.4
50°-60°	3607.5	20.1
60°-70°	4289.1	23.9
70°-80°	2526.1	14.1
80°-90°	534.2	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°	17978.0	100.0
0°-180°	17978.0	100.0

Coefficient of Utilization



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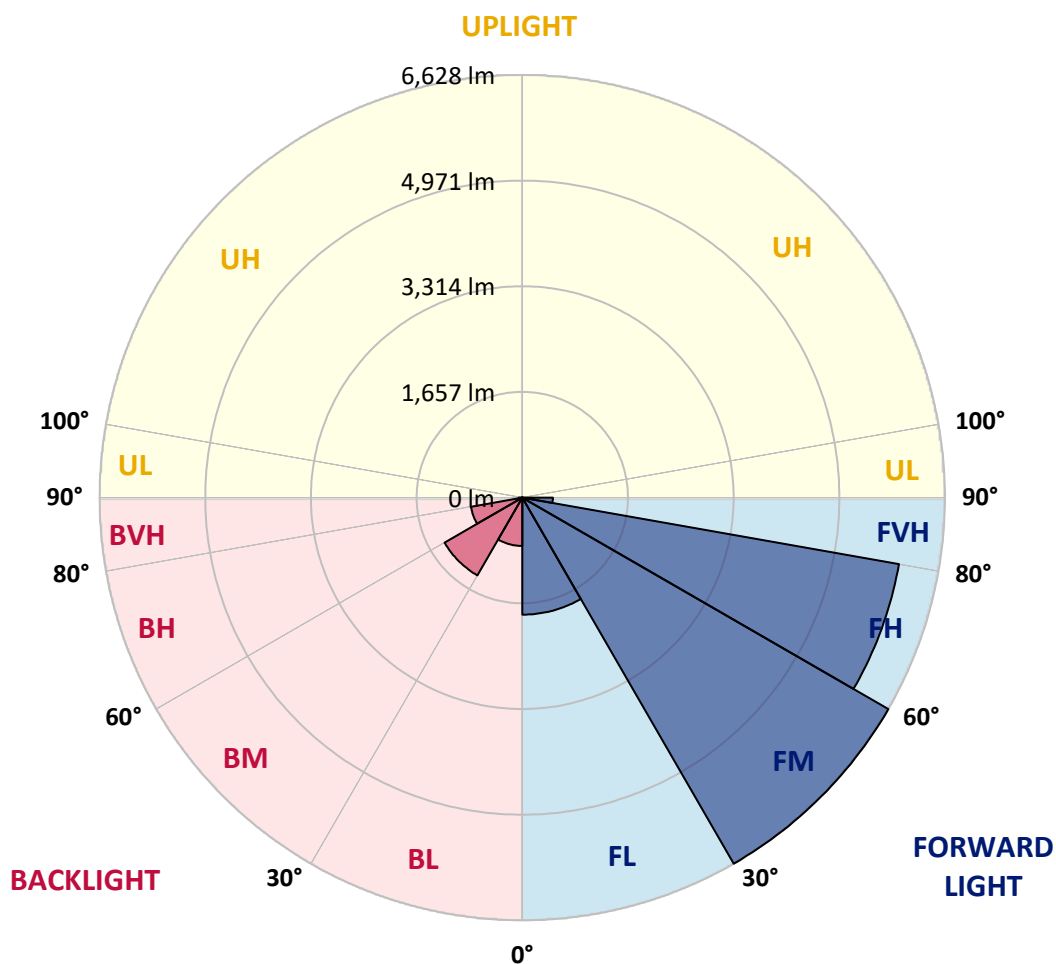
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1835.1	10.2			
FM	(30°-60°)	6627.8	36.9			
FH	(60°-80°)	5997.5	33.4			G3/7500
FVH	(80°-90°)	478.9	2.7			G3/500
BL	(0°-30°)	757.9	4.2	B2/1000		
BM	(30°-60°)	1407.8	7.8	B2/2500		
BH	(60°-80°)	817.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	55.2	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8
2.5°	6056.0	6064.1	6115.9	6267.0	6370.7	6408.8	6435.3	6385.7	6337.3	6219.7	6042.2
5°	6037.5	6084.8	6219.7	6558.6	6826.1	6941.4	6976.0	6827.3	6581.7	6279.6	5916.5
7.5°	5684.8	5748.2	5955.7	6524.1	6995.6	7265.3	7229.6	6961.0	6518.3	5979.9	5472.6
10°	5266.3	5336.6	5586.8	6273.9	6881.4	7252.7	7252.7	6925.3	6337.3	5697.5	5113.0
12.5°	4934.3	5008.0	5294.0	6016.8	6644.0	6995.6	7054.4	6773.1	6207.0	5518.8	4876.6
15°	4824.7	4896.2	5204.0	5861.2	6392.6	6607.1	6626.7	6534.4	6143.6	5531.4	4866.2
17.5°	4960.8	5053.0	5364.3	5907.3	6162.1	6174.7	6189.7	6262.4	6150.5	5763.2	5076.1
20°	5353.9	5453.0	5778.2	6056.0	5960.3	5828.9	5836.9	6023.7	6232.4	6145.9	5577.6
22.5°	5921.1	6007.6	6340.8	6317.7	5875.0	5604.1	5547.6	5808.1	6353.4	6623.2	6111.3
25°	6533.3	6634.7	7017.5	6706.2	5899.2	5470.3	5434.6	5681.3	6479.1	7069.4	6728.1
27.5°	7234.2	7333.4	7635.4	7098.2	6026.0	5460.0	5417.3	5669.8	6592.1	7482.1	7317.2
30°	7755.3	7846.4	8051.6	7427.9	6181.7	5529.1	5476.1	5760.9	6688.9	7764.5	7891.4
32.5°	8164.6	8259.1	8370.9	7633.1	6386.9	5654.8	5556.8	5926.9	6815.7	7980.1	8316.8
35°	8591.1	8703.0	8694.9	7815.3	6578.2	5800.1	5704.4	6166.7	7015.2	8168.0	8856.3
37.5°	9131.8	9176.8	9119.2	7979.0	6807.7	6061.8	6008.7	6522.9	7298.8	8395.2	9486.9
40°	9680.6	9770.5	9474.2	8177.3	7086.7	6554.0	6548.3	7049.8	7635.4	8661.5	10097.9
42.5°	10151.0	10227.1	9806.3	8350.2	7424.4	7154.7	7198.5	7756.5	8077.0	8970.4	10589.1
45°	10504.9	10572.9	10112.9	8517.4	7869.4	7848.7	8106.9	8513.9	8633.8	9248.3	10877.3
47.5°	10805.8	10871.5	10326.2	8771.0	8419.4	8677.6	9127.2	9303.6	9109.9	9407.4	11200.1
50°	11059.4	11079.0	10472.6	9073.0	9101.9	9693.3	10129.1	10243.2	9580.3	9635.6	11480.2
52.5°	11323.4	11298.1	10725.1	9453.5	9839.7	10657.1	10974.1	11092.9	10031.1	9916.9	11888.3
55°	11914.8	11939.1	11291.1	9933.1	10585.6	11603.6	12020.9	11906.8	10530.3	10434.6	12407.1
57.5°	12629.6	12608.9	12087.8	10683.6	11345.3	12484.4	12795.6	12612.3	11196.6	11145.9	12932.8
60°	12907.5	12935.1	12754.1	11490.6	12094.7	13255.6	13573.8	13289.1	11995.5	11972.5	13329.4
62.5°	12628.5	12784.1	12906.3	12208.8	12733.4	13822.8	14138.7	13813.6	12829.1	12996.2	13607.3
65°	12072.8	12106.2	12522.4	12817.5	13041.2	13916.2	14081.1	13908.1	13525.4	13928.9	13594.6
67.5°	11351.1	11379.9	11867.6	13017.0	12644.6	12855.6	12970.9	12920.1	13309.8	14248.2	12968.6
70°	10664.0	10640.9	11156.3	12508.6	11007.5	10687.0	10782.7	10623.6	11484.8	13467.8	11740.8
72.5°	9326.7	9409.7	9963.0	11095.2	8715.7	8194.6	8403.2	7991.7	8833.2	11534.4	9529.6
75°	7305.7	7325.3	8248.7	9311.7	6574.8	5752.8	6035.2	5863.5	6766.2	9621.8	6580.5
77.5°	5058.8	5015.0	6007.6	7112.0	4688.7	4211.4	4216.0	4134.2	4724.4	7084.3	4470.8
80°	3213.0	3146.2	3760.6	4393.6	3222.3	3447.1	3334.1	3330.6	3075.8	4370.5	2703.5
82.5°	1736.2	1810.0	2376.1	2754.2	2311.5	2664.3	2441.8	2370.3	2110.9	2735.7	1729.3
85°	790.9	860.0	1267.0	1873.4	1755.8	1775.4	1186.3	1399.6	1746.6	2221.6	923.4
87.5°	77.2	99.1	261.7	884.2	599.5	472.7	176.4	340.1	439.2	789.7	73.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8
2.5°	5969.5	5909.6	5705.5	5537.2	5358.5	5222.5	5044.9	4926.2	4844.3	4721.0	4706.0
5°	5695.1	5548.7	5193.7	4831.7	4519.2	4284.0	4045.4	3826.4	3697.2	3656.9	3605.0
7.5°	5232.8	4986.1	4529.6	4114.6	3756.0	3405.6	3135.8	2944.4	2816.4	2741.5	2651.6
10°	4852.4	4566.5	4010.8	3502.4	3207.3	2989.4	2751.9	2546.7	2388.7	2253.8	2180.1
12.5°	4596.5	4273.7	3648.8	3236.1	3007.8	2776.1	2498.3	2267.7	2034.8	1881.5	1815.8
15°	4519.2	4178.0	3537.0	3103.5	2776.1	2472.9	2161.6	1860.7	1630.1	1484.9	1436.5
17.5°	4708.3	4295.6	3535.8	2927.1	2504.0	2142.0	1743.1	1460.7	1224.3	1116.0	1081.4
20°	5061.1	4521.5	3546.2	2753.0	2208.9	1699.3	1268.2	1036.4	923.4	877.3	860.0
22.5°	5553.3	4866.2	3577.3	2581.3	1886.1	1305.0	950.0	832.4	792.0	783.9	780.5
25°	6159.8	5292.8	3682.2	2426.8	1614.0	996.1	794.3	741.3	718.2	710.2	709.0
27.5°	6717.7	5843.9	3809.1	2294.2	1351.2	858.9	718.2	673.3	650.2	649.1	651.4
30°	7221.5	6305.0	3915.1	2145.5	1151.7	763.2	668.7	623.7	601.8	600.6	607.6
32.5°	7657.3	6684.3	3993.5	1999.1	1041.0	704.4	623.7	575.3	556.8	553.4	556.8
35°	8123.1	7062.4	3957.8	1884.9	977.6	656.0	590.3	543.0	521.1	510.7	510.7
37.5°	8654.5	7452.1	3896.7	1790.4	948.8	615.6	561.4	515.3	493.4	483.0	481.9
40°	9234.4	7841.8	3812.5	1706.2	920.0	591.4	541.8	493.4	466.9	456.5	454.2
42.5°	9746.3	8175.0	3743.3	1650.9	872.7	596.0	524.6	477.3	443.9	430.0	428.9
45°	10191.3	8510.4	3730.7	1618.6	833.5	589.1	519.9	464.6	425.4	410.4	408.1
47.5°	10539.5	8859.8	3803.3	1600.2	790.9	552.2	549.9	456.5	409.3	393.1	390.8
50°	10963.7	9355.5	3969.3	1562.1	751.7	517.6	581.0	455.4	396.6	375.8	370.1
52.5°	11528.6	10001.1	4194.1	1494.1	695.2	485.4	554.5	455.4	381.6	360.8	353.9
55°	12382.9	10824.2	4414.3	1398.4	615.6	442.7	500.3	441.5	359.7	341.2	336.6
57.5°	12949.0	11426.0	4555.0	1265.8	516.5	411.6	431.2	419.6	337.8	318.2	318.2
60°	12977.8	11587.4	4488.1	1098.7	454.2	382.8	374.7	423.1	318.2	297.4	295.1
62.5°	12645.8	11192.0	4139.9	948.8	420.8	351.6	338.9	371.2	298.6	277.8	274.4
65°	12127.0	10183.2	3535.8	877.3	402.3	324.0	305.5	304.4	277.8	258.2	253.6
67.5°	11173.6	8899.0	2905.2	835.8	393.1	292.8	275.5	269.8	253.6	237.5	235.2
70°	9768.2	7453.3	2329.9	818.5	388.5	260.5	246.7	239.8	226.0	213.3	212.1
72.5°	7599.7	6045.6	1923.0	807.0	386.2	230.6	215.6	206.4	198.3	186.8	186.8
75°	5458.8	4447.7	1467.6	727.5	357.4	198.3	182.2	176.4	164.9	155.6	157.9
77.5°	3441.3	2995.1	966.1	534.9	276.7	159.1	145.3	141.8	132.6	119.9	128.0
80°	2324.2	2106.3	563.8	336.6	174.1	116.4	111.8	110.7	100.3	86.5	87.6
82.5°	1581.7	1551.8	292.8	191.4	100.3	68.0	65.7	68.0	56.5	46.1	46.1
85°	617.9	843.9	138.3	74.9	32.3	10.4	15.0	16.1	9.2	4.6	5.8
87.5°	11.5	86.5	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°	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8
2.5°	4682.9	4672.6	4689.9	4616.1	4631.1	4658.7	4672.6	4680.6	4794.8	4768.2	4840.9
5°	3653.4	3643.0	3709.9	3719.1	3753.7	3746.8	3780.2	3788.3	3829.8	3844.8	3946.3
7.5°	2657.4	2702.3	2778.4	2817.6	2876.4	2894.8	2877.5	2920.2	2833.7	2896.0	2914.4
10°	2135.1	2080.9	2048.6	2138.6	2150.1	2235.4	2200.8	2173.1	2223.9	2226.2	2274.6
12.5°	1777.7	1661.3	1584.0	1609.4	1637.1	1674.0	1679.7	1735.1	1772.0	1806.5	1835.4
15°	1393.8	1353.5	1283.1	1248.6	1287.7	1302.7	1338.5	1384.6	1423.8	1434.2	1473.4
17.5°	1069.9	1076.8	1065.2	1044.5	1068.7	1080.2	1082.5	1083.7	1094.1	1087.2	1144.8
20°	861.2	885.4	914.2	918.8	926.9	932.7	922.3	883.1	884.2	908.5	926.9
22.5°	779.3	783.9	816.2	826.6	852.0	841.6	811.6	793.2	790.9	796.6	805.9
25°	714.8	721.7	744.8	760.9	780.5	762.0	740.1	722.8	720.5	726.3	735.5
27.5°	657.1	667.5	688.3	704.4	722.8	705.6	684.8	669.8	668.7	667.5	673.3
30°	611.0	622.5	637.5	656.0	668.7	653.7	634.1	626.0	624.9	622.5	624.9
32.5°	564.9	583.3	598.3	607.6	620.2	608.7	593.7	589.1	581.0	574.1	570.7
35°	513.0	532.6	555.7	567.2	579.9	568.4	558.0	538.4	524.6	523.4	525.7
37.5°	483.0	491.1	509.6	529.2	541.8	536.1	516.5	496.9	493.4	493.4	495.7
40°	456.5	460.0	468.1	493.4	516.5	499.2	475.0	469.2	469.2	468.1	469.2
42.5°	430.0	433.5	433.5	453.1	490.0	462.3	443.9	443.9	443.9	445.0	448.5
45°	405.8	407.0	405.8	419.6	454.2	431.2	418.5	421.9	424.3	426.6	428.9
47.5°	385.1	386.2	385.1	396.6	413.9	404.7	397.7	402.3	407.0	410.4	412.7
50°	366.6	365.5	367.8	374.7	382.8	385.1	380.4	387.4	389.7	394.3	400.0
52.5°	350.5	349.3	351.6	355.1	366.6	366.6	366.6	372.4	377.0	381.6	389.7
55°	332.0	333.2	336.6	341.2	356.2	353.9	355.1	359.7	364.3	371.2	375.8
57.5°	314.7	317.0	321.6	328.6	343.6	342.4	343.6	345.9	351.6	355.1	359.7
60°	295.1	299.7	305.5	310.1	325.1	324.0	329.7	334.3	337.8	337.8	340.1
62.5°	275.5	282.5	288.2	291.7	307.8	309.0	317.0	320.5	322.8	320.5	324.0
65°	255.9	266.3	268.6	273.2	289.4	290.5	299.7	307.8	305.5	303.2	309.0
67.5°	236.3	249.0	247.9	253.6	269.8	272.1	280.1	294.0	289.4	287.1	291.7
70°	214.4	223.7	224.8	228.3	250.2	246.7	259.4	272.1	268.6	269.8	269.8
72.5°	190.2	198.3	198.3	205.2	228.3	222.5	232.9	246.7	246.7	245.6	245.6
75°	161.4	166.0	170.6	181.0	205.2	198.3	205.2	217.9	220.2	217.9	217.9
77.5°	130.3	137.2	139.5	153.3	170.6	169.5	176.4	182.2	186.8	184.5	184.5
80°	92.2	99.1	108.4	123.4	133.7	137.2	140.6	145.3	147.6	147.6	149.9
82.5°	51.9	62.3	70.3	85.3	89.9	107.2	106.1	109.5	106.1	93.4	103.8
85°	11.5	21.9	31.1	39.2	45.0	62.3	65.7	73.8	61.1	56.5	56.5
87.5°	0.0	0.0	0.0	0.0	0.0	9.2	18.4	25.4	21.9	18.4	18.4
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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 CATALOG NUMBER: GALN-SA5A-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8	5616.8
2.5°	4902.0	5002.3	5123.3	5332.0	5478.4	5636.4	5795.4	5964.9	6009.9	6056.0
5°	3973.9	4171.1	4278.3	4558.4	4852.4	5225.9	5531.4	5865.8	6005.3	6037.5
7.5°	3010.1	3143.9	3425.2	3708.8	4073.1	4465.0	4933.1	5454.2	5616.8	5684.8
10°	2386.4	2568.6	2815.3	3119.6	3439.0	3860.9	4389.0	4997.7	5228.2	5266.3
12.5°	2031.3	2234.3	2502.9	2824.5	3126.6	3444.8	3977.4	4605.7	4852.4	4934.3
15°	1624.4	1869.9	2180.1	2519.0	2847.6	3195.7	3735.3	4444.3	4729.0	4824.7
17.5°	1276.2	1474.5	1810.0	2177.8	2567.4	3007.8	3684.6	4521.5	4872.0	4960.8
20°	976.5	1118.3	1400.7	1789.2	2245.8	2822.2	3697.2	4813.2	5232.8	5353.9
22.5°	843.9	916.5	1088.3	1458.4	1969.1	2660.8	3749.1	5213.3	5719.4	5921.1
25°	764.3	802.4	899.2	1141.3	1705.1	2504.0	3867.9	5751.6	6399.5	6533.3
27.5°	696.3	724.0	783.9	958.0	1465.3	2358.8	4006.2	6348.8	7034.8	7234.2
30°	631.8	668.7	725.2	850.8	1312.0	2226.2	4180.3	6833.0	7569.7	7755.3
32.5°	582.2	619.1	671.0	775.9	1181.7	2086.7	4284.0	7258.4	8006.6	8164.6
35°	541.8	573.0	627.2	715.9	1082.5	1980.6	4263.3	7596.2	8429.7	8591.1
37.5°	513.0	539.5	593.7	659.4	1007.6	1869.9	4252.9	8042.4	8945.1	9131.8
40°	486.5	514.2	563.8	622.5	932.7	1739.7	4258.7	8485.1	9493.8	9680.6
42.5°	465.8	496.9	537.2	612.2	855.4	1634.8	4258.7	8870.1	9971.1	10151.0
45°	448.5	481.9	521.1	611.0	794.3	1555.2	4229.9	9201.0	10351.6	10504.9
47.5°	433.5	470.4	526.9	590.3	779.3	1497.6	4204.5	9466.2	10661.7	10805.8
50°	423.1	466.9	560.3	566.1	783.9	1480.3	4326.7	9800.5	10934.9	11059.4
52.5°	415.0	468.1	559.1	530.3	775.9	1491.8	4581.5	10322.7	11314.2	11323.4
55°	398.9	466.9	530.3	490.0	742.4	1511.4	4908.9	11081.3	11907.9	11914.8
57.5°	382.8	454.2	492.3	455.4	674.4	1511.4	5303.2	11799.6	12623.9	12629.6
60°	366.6	472.7	432.3	425.4	585.7	1483.7	5719.4	12115.4	12848.7	12907.5
62.5°	350.5	476.1	386.2	398.9	521.1	1416.9	6029.5	11766.1	12544.3	12628.5
65°	332.0	383.9	356.2	371.2	487.7	1305.0	5931.5	11126.3	11972.5	12072.8
67.5°	310.1	325.1	324.0	342.4	476.1	1140.2	5415.0	10317.0	11356.9	11351.1
70°	283.6	291.7	295.1	314.7	454.2	1012.2	4512.3	9266.7	10534.9	10664.0
72.5°	255.9	262.9	266.3	283.6	432.3	939.6	3502.4	7819.9	9124.9	9326.7
75°	226.0	230.6	235.2	250.2	409.3	832.4	2494.8	5969.5	6988.7	7305.7
77.5°	194.8	194.8	200.6	215.6	344.7	687.1	1674.0	4187.2	4734.8	5058.8
80°	157.9	159.1	156.8	172.9	253.6	470.4	951.1	2796.8	3150.8	3213.0
82.5°	121.1	117.6	118.7	126.8	189.1	320.5	507.3	1737.4	1770.8	1736.2
85°	76.1	76.1	73.8	83.0	121.1	167.2	276.7	1064.1	831.2	790.9
87.5°	31.1	25.4	28.8	33.4	57.6	68.0	108.4	219.0	84.2	77.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)