

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: P453015

Luminaire Tested: **GALN-SA4A-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11832 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

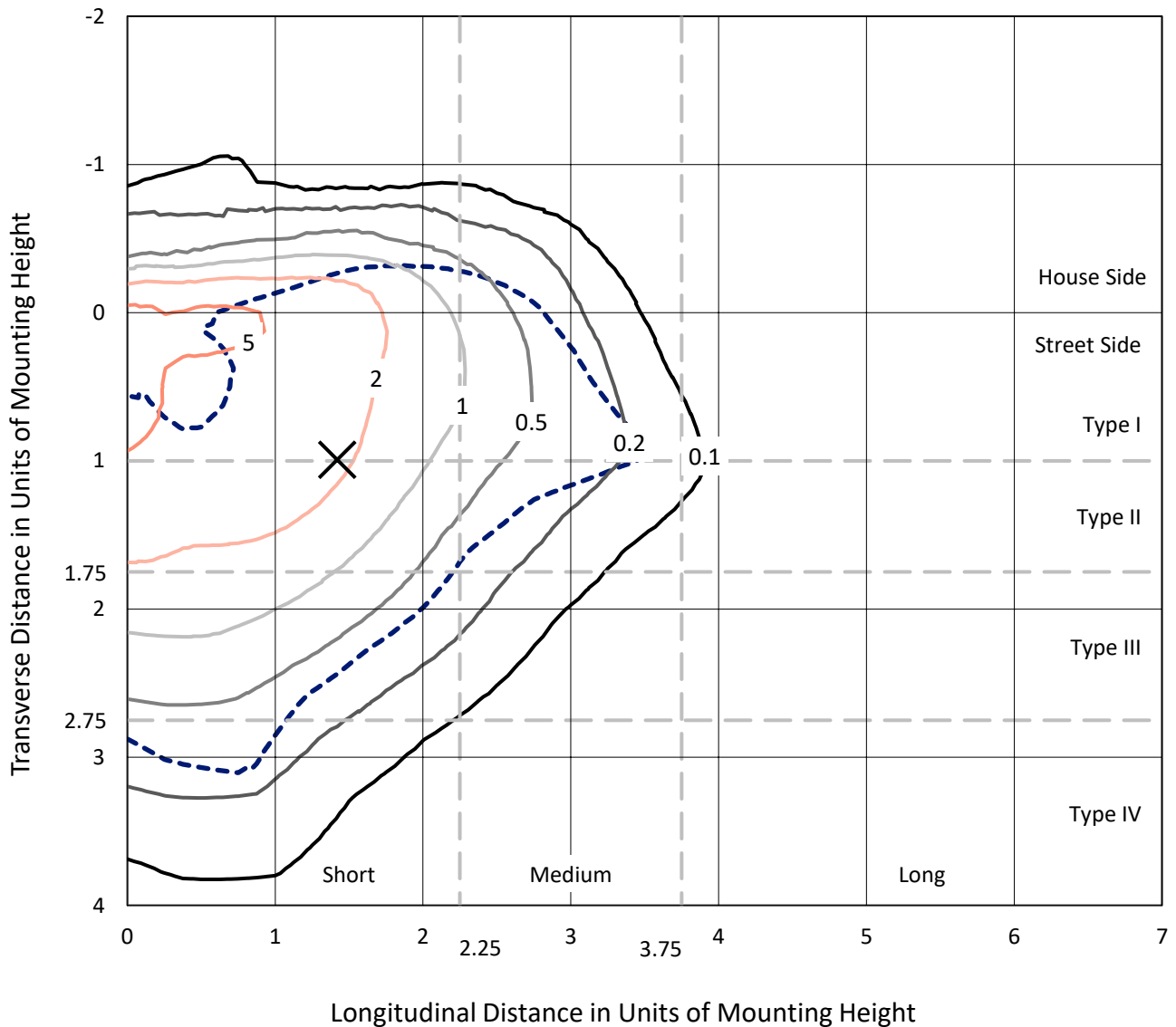
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

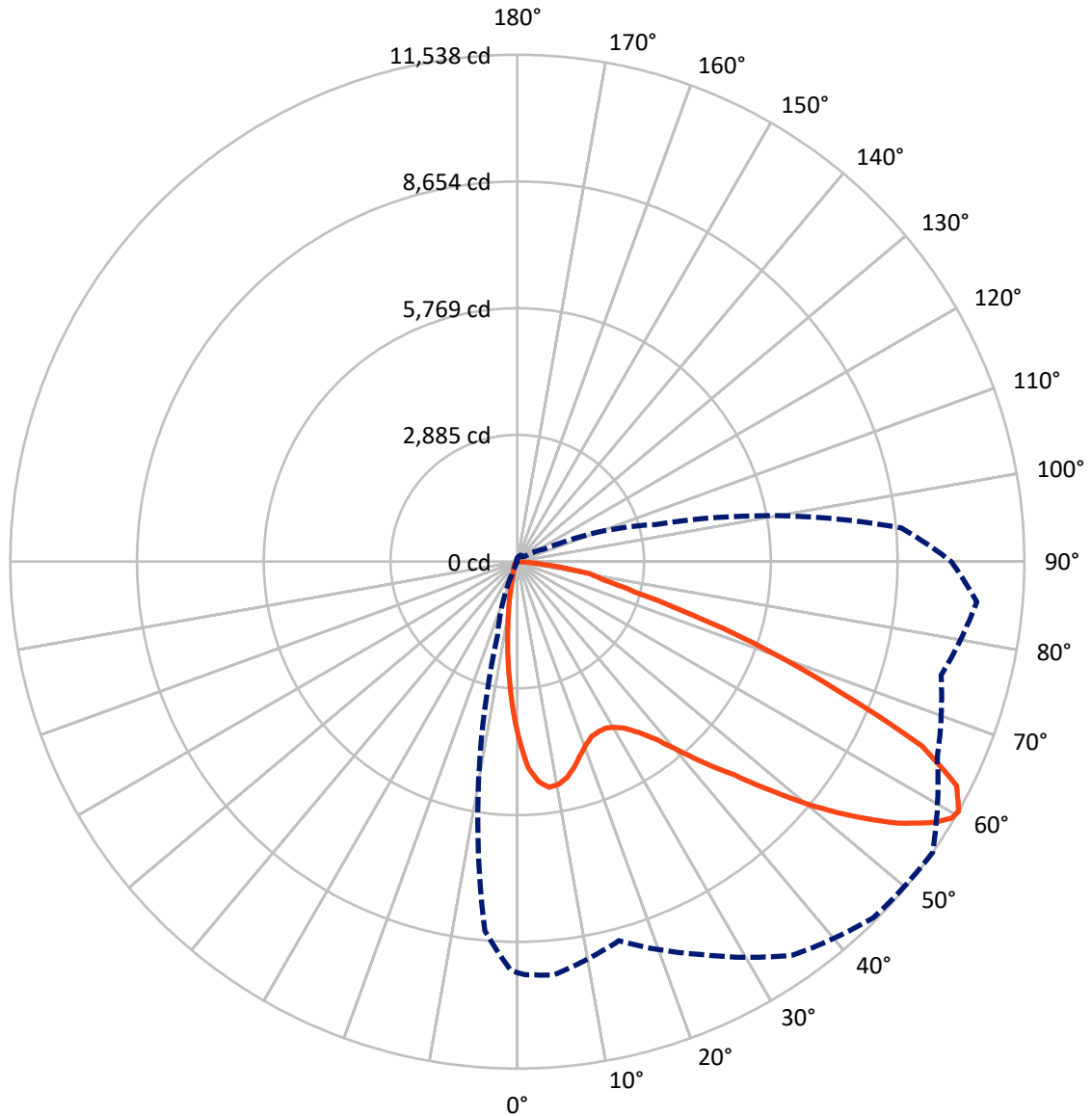
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1756.0	0.0	1756.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	10076.0	0.0	10076.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	11832.0	0.0	11832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.7	2.5
10°-20°	584.2	4.9
20°-30°	864.7	7.3
30°-40°	1289.0	10.9
40°-50°	1887.7	16.0
50°-60°	2725.3	23.0
60°-70°	2866.9	24.2
70°-80°	1179.3	10.0
80°-90°	138.1	1.2
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°	11832.0	100.0
0°-180°	11832.0	100.0

Coefficient of Utilization



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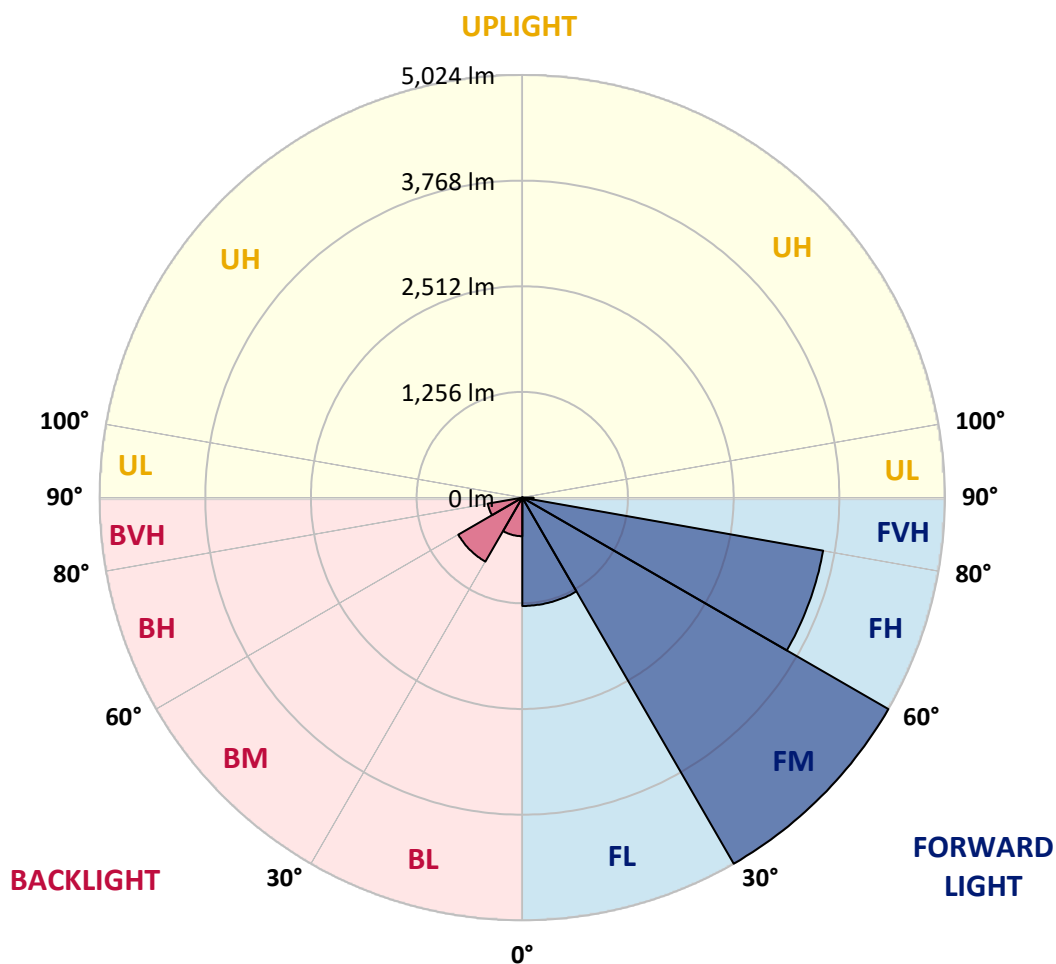
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.5	10.9			
FM (30°-60°)	5023.9	42.5			
FH (60°-80°)	3630.6	30.7			G2/5000
FVH (80°-90°)	134.1	1.1			G2/225
BL (0°-30°)	458.1	3.9	B1/500		
BM (30°-60°)	878.1	7.4	B1/1000		
BH (60°-80°)	415.6	3.5	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3
2.5°	4376.9	4369.7	4434.3	4540.0	4646.5	4702.1	4691.1	4686.6	4598.3	4533.6	4397.9
5°	4367.8	4405.2	4520.8	4806.8	5023.6	5128.3	5159.3	5029.0	4856.9	4607.4	4299.5
7.5°	4106.5	4152.9	4341.4	4788.6	5173.8	5401.5	5393.3	5184.8	4829.6	4443.4	4004.5
10°	3782.2	3836.9	4058.2	4601.0	5101.0	5401.5	5417.9	5153.8	4712.1	4216.7	3754.9
12.5°	3553.7	3618.3	3863.3	4426.1	4913.4	5209.4	5228.5	5037.2	4623.8	4129.2	3619.2
15°	3476.2	3537.3	3785.9	4337.8	4713.9	4873.3	4868.7	4848.7	4589.1	4150.2	3626.5
17.5°	3609.2	3659.3	3939.8	4377.9	4527.2	4510.8	4534.5	4631.0	4596.4	4325.9	3856.0
20°	3952.5	4003.6	4305.0	4500.8	4384.2	4280.4	4291.3	4452.5	4663.8	4656.5	4214.8
22.5°	4425.2	4511.7	4785.0	4739.4	4365.1	4137.4	4114.7	4324.1	4778.6	5037.2	4699.3
25°	5023.6	5111.0	5324.1	5120.1	4458.9	4103.7	4082.8	4285.0	4917.9	5408.8	5244.9
27.5°	5526.3	5592.8	5805.0	5490.8	4597.3	4118.3	4083.7	4290.4	5030.8	5724.8	5704.8
30°	5928.8	5978.0	6102.8	5663.8	4716.6	4182.1	4142.0	4370.6	5080.9	5878.7	6077.3
32.5°	6253.0	6335.9	6375.1	5848.7	4887.9	4302.3	4234.0	4524.5	5203.0	6069.1	6468.0
35°	6623.7	6719.3	6669.2	6025.4	5113.7	4489.9	4406.1	4774.0	5387.9	6244.8	6921.5
37.5°	7093.6	7203.8	7008.0	6211.1	5352.3	4772.2	4733.0	5124.7	5668.4	6496.2	7407.8
40°	7580.0	7643.7	7336.8	6437.0	5645.6	5182.9	5220.3	5645.6	6035.4	6797.7	7925.1
42.5°	7959.7	8019.9	7674.7	6626.4	5945.2	5670.2	5825.9	6274.0	6456.1	7106.4	8311.3
45°	8250.3	8301.3	7908.7	6833.2	6349.6	6376.0	6670.2	6921.5	6877.8	7294.9	8609.1
47.5°	8476.1	8519.8	8089.1	7055.4	6955.2	7239.4	7689.3	7795.8	7314.9	7498.9	8878.7
50°	8569.0	8581.8	8145.5	7338.6	7642.8	8339.5	8808.5	8743.9	7815.8	7725.7	9165.5
52.5°	8690.1	8687.4	8306.7	7608.2	8289.4	9323.1	9791.2	9644.6	8382.3	8065.4	9487.9
55°	9008.0	9011.6	8651.9	7990.7	8840.4	10117.3	10618.2	10511.6	8979.8	8639.1	9864.1
57.5°	9394.1	9407.8	9142.8	8437.9	9366.8	10692.8	11235.6	11194.6	9787.6	9277.6	10219.3
59°	9444.2	9471.5	9375.0	8753.0	9679.2	10869.5	11446.9	11487.0	10220.2	9698.3	10411.4
60°	9353.2	9398.7	9442.4	8931.5	9862.2	10933.3	11459.7	11538.0	10545.3	9984.3	10498.8
62.5°	8956.1	9028.0	9247.5	9480.7	10090.8	10734.7	11052.6	11216.5	10947.8	10735.6	10507.0
65°	8436.1	8473.4	8790.3	9578.1	9647.3	9807.6	9906.0	10116.3	10464.2	11025.2	10130.9
67.5°	7583.6	7693.8	8081.8	9012.5	8338.6	8149.2	8124.6	7915.1	8818.6	10334.9	9203.8
70°	6264.9	6314.1	6792.2	7388.7	6293.1	6001.7	6118.3	6039.9	6835.9	8896.9	7407.8
72.5°	4737.6	4848.7	5315.9	5889.7	4282.2	3904.3	4225.8	4196.6	5134.7	7150.1	5089.1
75°	3370.6	3442.5	4038.2	4609.2	2999.0	2540.9	2656.6	2765.0	3584.6	5645.6	3007.2
77.5°	2316.0	2377.9	2825.1	3048.2	2187.6	2095.6	1917.1	2021.8	2348.8	3349.6	1636.6
80°	1397.1	1394.3	1688.5	1743.1	1523.6	1769.5	1484.5	1666.6	1419.8	1433.5	633.9
82.5°	907.1	898.0	1032.8	1125.7	847.9	891.6	598.3	862.5	925.3	399.8	200.4
85°	406.2	423.5	496.3	654.8	371.6	197.6	122.0	265.0	394.3	201.3	0.0
87.5°	41.9	32.8	87.4	159.4	51.0	5.5	18.2	9.1	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3
2.5°	4335.1	4282.2	4124.7	3977.1	3850.5	3695.7	3595.5	3438.0	3342.4	3313.2	3317.8
5°	4161.1	4009.0	3709.4	3469.9	3203.0	3050.9	2819.6	2597.4	2477.2	2432.5	2412.5
7.5°	3796.8	3633.8	3272.2	2896.1	2610.1	2343.3	2171.2	1975.4	1841.5	1731.3	1712.2
10°	3526.3	3312.3	2864.2	2459.9	2234.0	2033.7	1861.5	1665.7	1508.2	1382.5	1347.9
12.5°	3364.2	3124.7	2624.7	2285.9	2071.9	1866.1	1642.0	1415.3	1254.1	1118.4	1055.5
15°	3335.1	3057.3	2557.3	2161.2	1897.0	1648.4	1350.6	1105.6	939.9	811.5	772.3
17.5°	3510.8	3178.4	2547.3	2030.9	1668.4	1316.0	1006.4	803.3	616.6	544.6	516.4
20°	3824.1	3392.5	2546.4	1879.7	1433.5	1013.6	706.7	523.7	448.1	413.5	397.1
22.5°	4251.3	3683.9	2594.7	1749.5	1189.4	747.7	504.5	417.1	373.4	345.2	338.8
25°	4773.1	4115.6	2713.1	1661.2	1002.7	586.5	416.2	357.0	320.6	307.8	302.4
27.5°	5236.7	4529.0	2843.3	1570.1	868.8	519.1	386.1	327.0	297.8	287.8	279.6
30°	5636.5	4904.3	2906.1	1449.9	761.4	475.4	391.6	349.7	311.5	281.4	267.8
32.5°	5969.8	5192.0	2947.1	1340.6	670.3	388.9	309.6	270.5	253.2	242.3	233.1
35°	6386.9	5503.5	2922.5	1278.7	623.8	354.3	282.3	233.1	204.0	182.1	173.0
37.5°	6824.1	5815.0	2879.7	1227.7	602.9	328.8	268.7	221.3	189.4	166.7	154.8
40°	7276.7	6103.7	2829.6	1180.3	583.8	312.4	260.5	211.3	179.4	154.8	142.1
42.5°	7691.1	6385.1	2809.6	1149.3	552.8	315.1	254.1	206.7	169.4	143.9	133.0
45°	8026.2	6651.9	2836.9	1132.9	519.1	310.6	255.9	201.3	161.2	136.6	125.7
47.5°	8384.1	7029.0	2925.3	1116.5	486.3	288.7	269.6	200.4	157.6	132.1	120.2
50°	8800.3	7511.7	3127.4	1076.5	446.3	265.0	286.9	199.4	153.0	126.6	114.8
52.5°	9355.0	8059.9	3336.0	1006.4	388.0	242.3	274.1	196.7	143.9	120.2	108.4
55°	9853.1	8637.3	3512.7	923.5	314.2	209.5	246.8	184.9	128.4	109.3	98.4
57.5°	10059.0	8963.4	3507.2	808.7	251.4	184.0	203.1	169.4	112.0	96.5	87.4
59°	9983.4	8922.4	3389.7	724.0	229.5	170.3	168.5	167.6	104.7	87.4	80.1
60°	9876.8	8773.0	3263.1	682.1	215.8	161.2	154.8	165.8	98.4	82.0	74.7
62.5°	9468.8	8153.7	2843.3	611.1	197.6	136.6	123.9	140.3	87.4	71.0	64.7
65°	8877.8	7202.0	2407.0	591.1	192.2	112.9	102.9	100.2	74.7	60.1	54.6
67.5°	7724.8	6094.6	1949.9	577.4	194.0	94.7	90.2	75.6	61.9	50.1	46.4
70°	6184.7	4752.2	1596.5	561.9	195.8	77.4	75.6	60.1	50.1	41.9	38.3
72.5°	3757.7	2816.9	1256.8	488.1	190.3	61.9	67.4	45.5	36.4	30.1	28.2
75°	2323.3	1928.0	779.6	379.8	125.7	45.5	47.4	28.2	24.6	19.1	19.1
77.5°	1346.1	1217.6	278.7	136.6	55.6	27.3	20.9	14.6	13.7	8.2	8.2
80°	558.3	447.2	96.5	46.4	30.1	12.8	4.6	0.9	0.0	0.0	0.0
82.5°	163.0	144.8	26.4	20.9	9.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3
2.5°	3240.4	3210.3	3196.6	3243.1	3200.3	3254.9	3213.0	3231.3	3285.0	3308.7	3369.7
5°	2425.3	2394.3	2379.7	2449.9	2446.2	2480.8	2477.2	2509.0	2536.4	2475.4	2538.2
7.5°	1689.4	1668.4	1703.1	1757.7	1816.0	1796.9	1796.9	1754.1	1768.6	1759.5	1756.8
10°	1285.0	1213.1	1194.9	1193.1	1214.9	1219.5	1194.9	1135.7	1157.5	1163.9	1202.2
12.5°	1010.9	955.4	870.7	832.4	822.4	830.6	749.5	697.6	722.2	707.6	745.0
15°	724.9	679.4	629.3	586.5	574.7	558.3	469.9	408.0	400.7	403.5	409.8
17.5°	517.3	486.3	486.3	440.8	416.2	367.0	322.4	295.1	292.3	295.1	299.6
20°	381.6	365.2	363.4	351.5	324.2	291.4	260.5	255.0	253.2	257.7	259.6
22.5°	328.8	311.5	296.9	296.0	270.5	243.2	228.6	221.3	222.2	224.0	228.6
25°	294.2	275.9	260.5	251.4	233.1	214.0	200.4	196.7	196.7	199.4	200.4
27.5°	269.6	246.8	233.1	220.4	204.0	187.6	175.8	173.0	171.2	173.0	177.6
30°	252.3	229.5	212.2	193.1	180.3	164.8	154.8	151.2	150.3	151.2	154.8
32.5°	215.8	202.2	188.5	171.2	155.7	145.7	134.8	128.4	128.4	130.2	133.9
35°	163.0	155.7	154.8	150.3	137.5	126.6	113.8	107.5	107.5	111.1	112.9
37.5°	143.9	130.2	128.4	126.6	121.1	106.6	94.7	89.3	88.3	91.1	94.7
40°	131.1	115.7	107.5	105.6	106.6	90.2	77.4	71.9	71.9	72.9	76.5
42.5°	121.1	102.9	88.3	86.5	90.2	75.6	62.8	57.4	57.4	57.4	61.9
45°	112.9	92.0	74.7	65.6	71.0	61.9	51.0	45.5	43.7	45.5	47.4
47.5°	107.5	83.8	65.6	52.8	52.8	49.2	41.0	34.6	32.8	33.7	36.4
50°	102.9	76.5	55.6	42.8	38.3	39.2	31.0	26.4	24.6	24.6	27.3
52.5°	95.6	69.2	48.3	36.4	29.1	26.4	22.8	19.1	18.2	19.1	20.9
55°	86.5	62.8	41.9	30.1	22.8	18.2	16.4	13.7	12.8	13.7	16.4
57.5°	76.5	52.8	33.7	23.7	15.5	11.8	10.9	9.1	7.3	8.2	10.0
59°	70.1	47.4	29.1	19.1	11.8	8.2	8.2	6.4	4.6	5.5	8.2
60°	67.4	43.7	24.6	16.4	10.0	6.4	6.4	4.6	2.7	3.6	6.4
62.5°	57.4	36.4	19.1	10.0	4.6	0.9	2.7	0.9	0.0	0.9	2.7
65°	48.3	29.1	12.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	40.1	21.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	31.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	21.9	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



REPORT NUMBER: P453015

CATALOG NUMBER: GALN-SA4A-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3	4006.3
2.5°	3373.3	3503.6	3583.7	3734.9	3889.7	4009.0	4158.4	4292.3	4347.8	4376.9
5°	2601.9	2783.2	2937.1	3167.5	3381.5	3642.0	3906.1	4217.6	4336.9	4367.8
7.5°	1826.0	2010.9	2172.1	2438.9	2744.0	3092.8	3488.1	3883.3	4057.3	4106.5
10°	1318.7	1516.4	1713.1	1979.9	2265.0	2642.9	3054.6	3543.6	3744.0	3782.2
12.5°	832.4	1044.6	1364.3	1693.9	1995.4	2299.6	2730.4	3262.2	3483.5	3553.7
15°	482.7	641.2	882.5	1312.4	1695.8	2098.3	2568.2	3156.6	3404.3	3476.2
17.5°	323.3	378.0	543.7	872.5	1378.8	1912.5	2527.3	3243.1	3517.2	3609.2
20°	272.3	296.9	355.2	531.9	1061.9	1746.8	2538.2	3478.1	3837.8	3952.5
22.5°	239.5	262.3	299.6	382.5	741.3	1540.9	2590.1	3814.1	4278.6	4425.2
25°	211.3	234.1	266.8	316.9	498.2	1303.2	2703.9	4305.9	4862.4	5023.6
27.5°	187.6	208.6	236.8	279.6	383.4	1038.2	2805.0	4785.0	5395.1	5526.3
30°	165.8	183.1	210.4	243.2	318.8	800.5	2856.0	5203.9	5783.1	5928.8
32.5°	143.9	160.3	186.7	213.1	262.3	610.2	2820.5	5511.7	6160.1	6253.0
35°	122.9	140.3	162.1	186.7	226.8	492.7	2642.9	5857.8	6550.9	6623.7
37.5°	105.6	120.2	143.0	162.1	204.9	394.3	2428.0	6169.3	6988.9	7093.6
40°	89.3	103.8	126.6	143.9	188.5	310.6	2234.0	6515.3	7450.6	7580.0
42.5°	72.9	90.2	110.2	138.4	162.1	236.8	1999.0	6795.8	7797.6	7959.7
45°	58.3	77.4	99.3	137.5	141.2	180.3	1772.3	7014.4	8104.5	8250.3
47.5°	46.4	65.6	95.6	128.4	115.7	143.0	1642.9	7243.0	8359.6	8476.1
50°	37.3	54.6	100.2	112.9	96.5	121.1	1639.3	7498.0	8491.6	8569.0
52.5°	30.1	44.6	84.7	86.5	82.0	106.6	1737.7	7784.9	8626.4	8690.1
55°	25.5	37.3	55.6	63.8	73.8	96.5	1811.4	8226.6	8947.9	9008.0
57.5°	20.0	31.9	42.8	51.0	65.6	88.3	1821.5	8567.2	9355.0	9394.1
59°	17.3	27.3	38.3	45.5	60.1	82.9	1780.5	8588.1	9381.4	9444.2
60°	14.6	24.6	33.7	42.8	55.6	78.3	1735.8	8436.1	9283.0	9353.2
62.5°	10.9	19.1	24.6	34.6	45.5	67.4	1524.6	7905.1	8906.9	8956.1
65°	7.3	13.7	18.2	25.5	35.5	58.3	1242.2	7216.6	8325.9	8436.1
67.5°	4.6	10.0	14.6	19.1	29.1	49.2	885.2	6188.4	7512.6	7583.6
70°	2.7	6.4	10.9	15.5	22.8	39.2	525.5	4891.5	6250.3	6264.9
72.5°	1.8	4.6	7.3	10.9	18.2	35.5	255.0	3188.5	4563.6	4737.6
75°	0.9	2.7	4.6	8.2	14.6	29.1	122.0	2130.2	3320.5	3370.6
77.5°	0.0	0.9	2.7	5.5	10.9	22.8	71.0	1398.9	2264.1	2316.0
80°	0.0	0.0	1.8	4.6	8.2	14.6	42.8	825.1	1371.6	1397.1
82.5°	0.0	0.0	0.9	3.6	5.5	10.9	21.9	362.5	898.0	907.1
85°	0.0	0.0	0.9	3.6	4.6	7.3	8.2	49.2	398.9	406.2
87.5°	0.0	0.0	0.9	4.6	4.6	4.6	4.6	2.7	33.7	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)