

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: P454177

Luminaire Tested: **GALN-SA5B-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18637 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

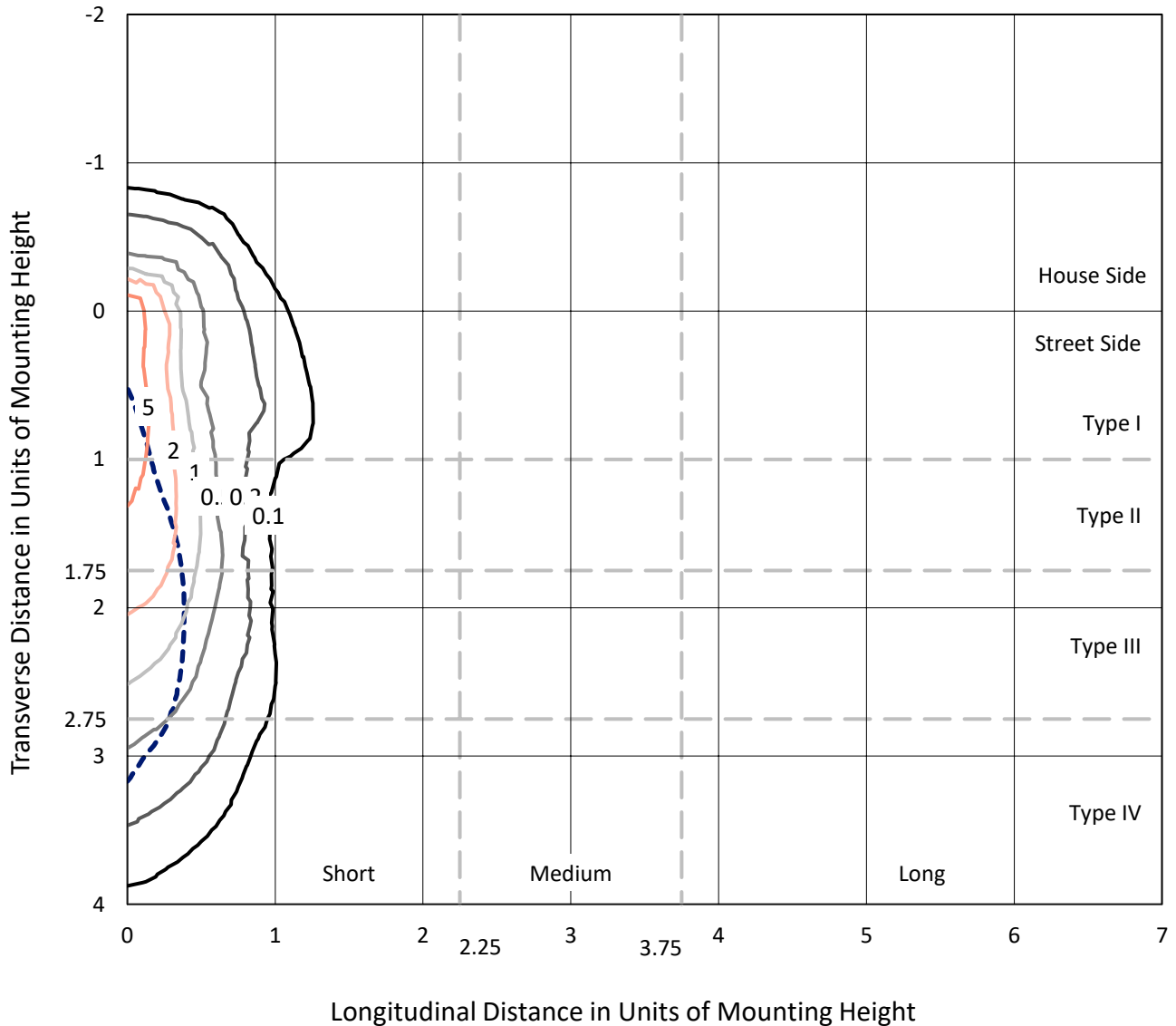
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

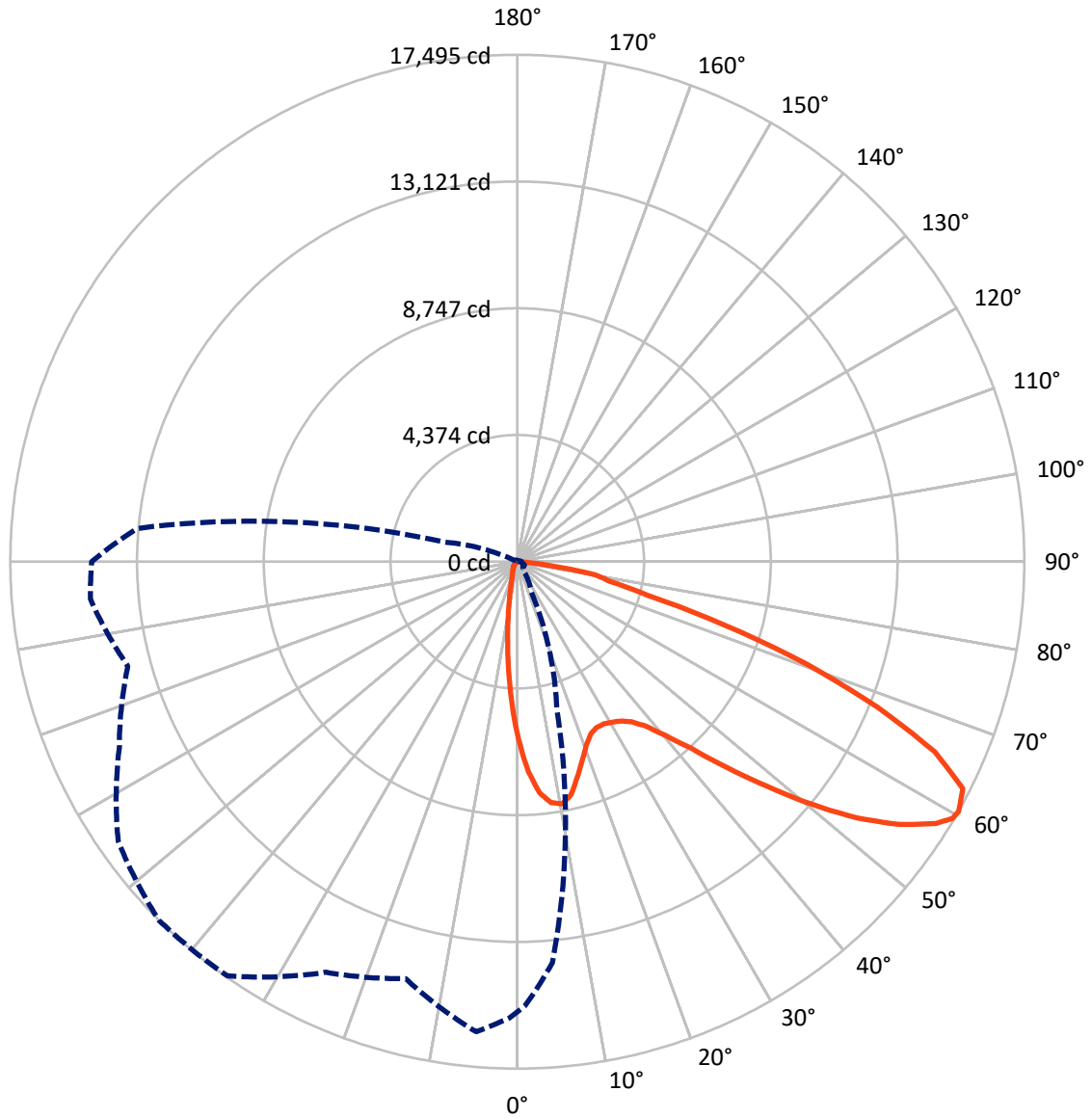
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2298.7	0.0	2298.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16338.3	0.0	16338.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	18637.0	0.0	18637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.1	2.5
10°-20°	909.9	4.9
20°-30°	1334.1	7.2
30°-40°	1984.1	10.6
40°-50°	2887.5	15.5
50°-60°	4163.9	22.3
60°-70°	4579.9	24.6
70°-80°	2051.4	11.0
80°-90°	268.1	1.4
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°	18637.0	100.0
0°-180°	18637.0	100.0

Coefficient of Utilization



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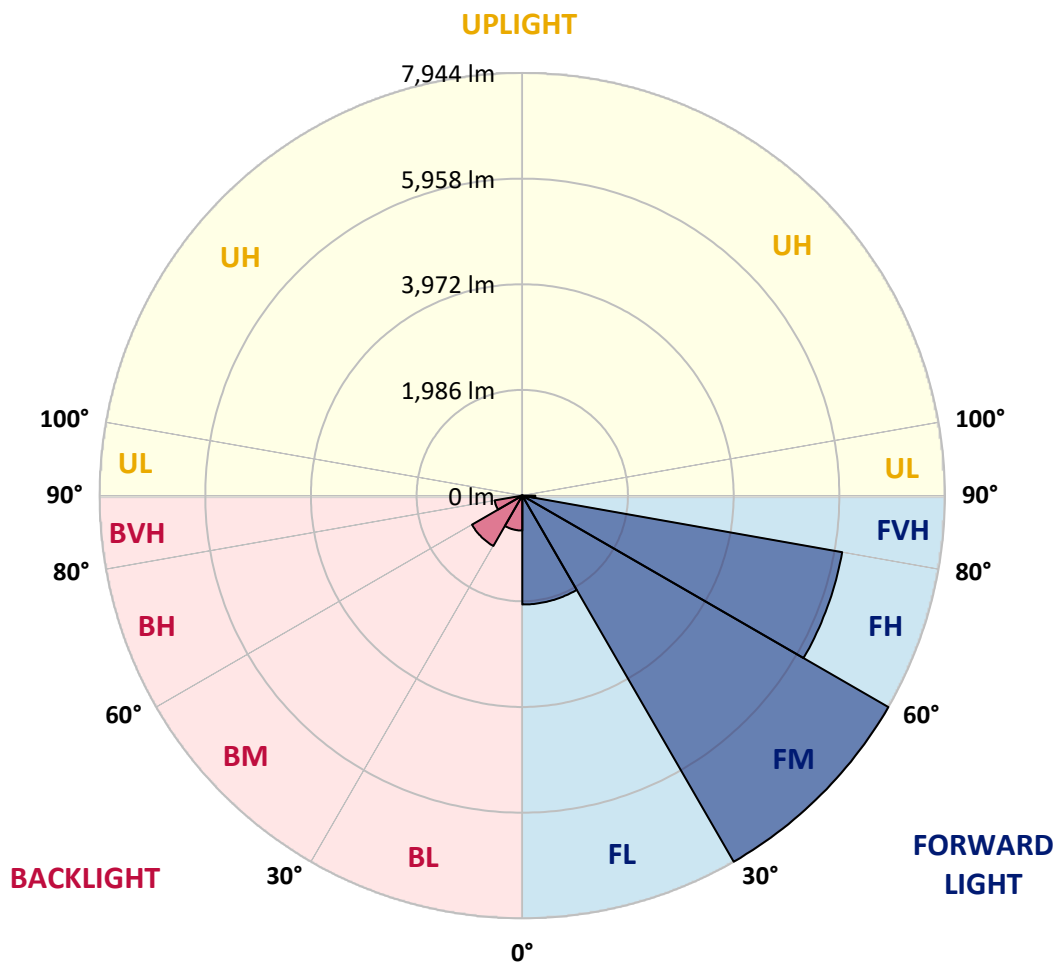
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2045.3	11.0			
FM	(30°-60°)	7943.7	42.6			
FH	(60°-80°)	6104.2	32.8			G3/7500
FVH	(80°-90°)	245.1	1.3			G3/500
BL	(0°-30°)	656.8	3.5	B2/1000		
BM	(30°-60°)	1091.8	5.9	B2/2500		
BH	(60°-80°)	527.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	22.9	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8
2.5°	6771.8	6742.1	6674.1	6467.2	6287.3	6052.1	5814.1	5627.1	5512.4	5301.3	5204.9
5°	6560.7	6574.9	6378.0	5953.0	5479.8	5156.8	4804.0	4523.5	4214.7	4019.2	3813.7
7.5°	6009.6	5981.3	5767.4	5175.2	4600.0	4132.5	3686.2	3323.6	3095.5	2912.7	2759.7
10°	5537.9	5516.6	5243.2	4481.0	3863.3	3513.4	3211.7	2894.3	2649.2	2381.5	2167.5
12.5°	5241.8	5193.6	4879.1	4082.9	3580.0	3254.2	2925.5	2595.4	2256.8	1986.2	1727.0
15°	5142.6	5073.2	4723.3	3945.5	3398.7	2985.0	2572.7	2193.0	1803.5	1504.5	1309.0
17.5°	5322.5	5207.8	4835.2	3921.4	3181.9	2633.6	2126.5	1632.0	1226.9	998.8	878.4
20°	5734.8	5603.0	5118.5	3897.3	2941.1	2239.8	1616.5	1153.2	848.6	723.9	657.3
22.5°	6346.8	6165.5	5537.9	3935.6	2718.6	1855.9	1167.4	814.6	674.3	596.4	549.7
25°	7082.1	6930.5	6069.1	4071.6	2543.0	1554.1	902.4	665.8	568.1	519.9	484.5
27.5°	7888.2	7645.9	6756.2	4234.5	2382.9	1320.4	791.9	595.0	505.8	461.8	443.4
30°	8461.9	8273.5	7331.4	4347.8	2183.1	1144.7	723.9	586.5	507.2	454.8	420.8
32.5°	9028.6	8787.8	7813.1	4400.3	2037.2	1022.9	626.2	511.4	444.8	417.9	383.9
35°	9635.0	9382.8	8293.3	4371.9	1928.1	942.1	568.1	456.2	381.1	335.8	301.8
37.5°	10248.4	9982.0	8770.8	4269.9	1860.1	909.5	522.8	433.5	359.8	313.1	276.3
40°	10976.6	10621.0	9218.4	4186.3	1789.3	892.5	493.0	419.3	344.3	294.7	257.8
42.5°	11571.6	11233.0	9642.0	4142.4	1741.1	852.9	493.0	408.0	334.3	279.1	240.8
45°	12135.4	11784.1	10099.6	4177.8	1721.3	803.3	498.7	406.6	327.3	267.8	229.5
47.5°	12607.2	12302.6	10570.0	4311.0	1695.8	749.4	468.9	426.4	323.0	257.8	218.2
50°	13163.9	12869.3	11191.9	4580.2	1650.5	695.6	432.1	459.0	321.6	249.3	208.3
52.5°	13948.8	13630.0	12050.4	4886.2	1578.2	613.4	398.1	454.8	315.9	235.2	198.3
55°	14907.9	14650.1	13044.9	5253.1	1479.0	521.3	344.3	403.8	298.9	211.1	181.3
57.5°	15522.7	15303.2	13790.1	5411.8	1327.4	426.4	303.2	338.6	273.4	188.4	161.5
59°	15595.0	15396.7	13946.0	5359.4	1228.3	389.6	283.3	290.4	266.3	175.7	150.2
60°	15534.1	15328.7	13883.6	5257.4	1136.2	364.1	266.3	257.8	267.8	168.6	141.7
62.5°	15143.1	14791.7	13278.7	4740.3	993.1	334.3	236.6	211.1	236.6	151.6	126.1
65°	14388.0	13861.0	12081.6	4012.1	936.4	317.3	201.2	177.1	179.9	133.2	109.1
67.5°	13069.0	12404.6	10487.8	3259.8	912.4	318.8	170.0	158.7	138.8	113.3	96.3
70°	10983.6	10320.6	8415.2	2681.8	901.0	318.8	144.5	136.0	116.2	94.9	83.6
72.5°	7783.3	7069.3	5676.7	2106.6	811.8	317.3	123.3	123.3	94.9	79.3	68.0
75°	4397.4	4403.1	3568.7	1490.4	674.3	262.1	99.2	97.8	69.4	60.9	51.0
77.5°	2562.8	2517.5	2405.6	640.3	313.1	119.0	69.4	59.5	48.2	43.9	36.8
80°	1317.5	1083.8	1055.4	232.3	111.9	75.1	48.2	34.0	31.2	28.3	25.5
82.5°	389.6	391.0	348.5	93.5	62.3	49.6	24.1	18.4	17.0	15.6	15.6
85°	26.9	17.0	19.8	28.3	38.3	19.8	1.4	4.3	4.3	5.7	7.1
87.5°	2.8	1.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8
2.5°	5098.7	5161.0	5044.9	5047.7	4951.4	4982.5	4869.2	4906.0	4839.4	4890.4	5040.6
5°	3836.4	3850.6	3757.1	3727.3	3741.5	3799.6	3822.2	3718.8	3762.7	3676.3	3670.7
7.5°	2703.1	2720.1	2666.2	2659.1	2761.1	2737.1	2781.0	2674.7	2574.1	2618.1	2537.3
10°	2099.5	2028.7	1918.2	1887.0	1867.2	1880.0	1880.0	1783.6	1769.5	1731.2	1789.3
12.5°	1657.5	1571.1	1466.3	1324.6	1289.2	1286.4	1233.9	1148.9	1122.0	1089.4	1137.6
15°	1204.2	1168.8	1080.9	1001.6	920.9	905.3	820.3	750.8	658.8	646.0	641.8
17.5°	847.2	794.8	793.3	748.0	701.3	670.1	590.8	511.4	476.0	471.8	471.8
20°	634.7	616.3	586.5	580.8	566.7	531.3	460.4	417.9	400.9	402.3	408.0
22.5°	534.1	521.3	494.4	481.7	476.0	444.8	392.4	364.1	355.6	355.6	357.0
25°	477.4	466.1	436.3	416.5	409.4	386.8	345.7	324.4	317.3	317.3	317.3
27.5°	434.9	420.8	389.6	372.6	359.8	334.3	308.8	287.6	280.5	280.5	281.9
30°	405.2	389.6	361.3	338.6	318.8	296.1	274.8	256.4	247.9	246.5	247.9
32.5°	365.5	351.3	323.0	308.8	286.2	259.3	242.3	225.3	216.8	218.2	216.8
35°	284.8	280.5	260.7	264.9	252.2	229.5	213.9	195.5	185.6	184.2	187.0
37.5°	259.3	242.3	219.6	221.0	216.8	208.3	182.8	162.9	155.8	155.8	157.3
40°	239.4	222.4	196.9	184.2	185.6	185.6	158.7	137.4	130.3	128.9	131.8
42.5°	222.4	205.4	177.1	155.8	150.2	157.3	134.6	113.3	106.3	103.4	106.3
45°	211.1	192.7	160.1	136.0	119.0	127.5	110.5	93.5	85.0	85.0	83.6
47.5°	199.8	182.8	147.3	117.6	99.2	94.9	90.7	75.1	66.6	65.2	66.6
50°	189.8	172.8	133.2	102.0	83.6	73.7	73.7	59.5	53.8	51.0	52.4
52.5°	179.9	161.5	120.4	90.7	72.3	59.5	52.4	48.2	43.9	42.5	43.9
55°	165.8	147.3	107.7	77.9	62.3	49.6	41.1	39.7	36.8	34.0	36.8
57.5°	148.8	131.8	94.9	66.6	49.6	38.3	34.0	32.6	29.8	28.3	28.3
59°	138.8	123.3	87.8	58.1	43.9	34.0	31.2	29.8	26.9	24.1	25.5
60°	133.2	120.4	83.6	53.8	39.7	31.2	28.3	26.9	24.1	22.7	24.1
62.5°	117.6	107.7	73.7	43.9	31.2	22.7	19.8	21.3	19.8	18.4	19.8
65°	103.4	94.9	62.3	34.0	24.1	15.6	14.2	18.4	17.0	15.6	17.0
67.5°	92.1	82.2	52.4	25.5	17.0	8.5	9.9	15.6	15.6	14.2	15.6
70°	79.3	70.8	42.5	18.4	8.5	4.3	7.1	11.3	14.2	12.8	14.2
72.5°	65.2	55.3	32.6	12.8	4.3	0.0	4.3	9.9	14.2	12.8	14.2
75°	51.0	41.1	24.1	7.1	0.0	0.0	1.4	8.5	14.2	12.8	14.2
77.5°	36.8	29.8	14.2	1.4	0.0	0.0	1.4	8.5	14.2	12.8	14.2
80°	24.1	21.3	5.7	0.0	0.0	0.0	1.4	8.5	14.2	14.2	15.6
82.5°	15.6	11.3	0.0	0.0	0.0	0.0	2.8	11.3	15.6	17.0	17.0
85°	7.1	0.0	0.0	0.0	0.0	0.0	5.7	14.2	18.4	18.4	18.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	9.9	17.0	21.3	21.3	21.3
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8
2.5°	5066.1	5155.4	5281.4	5475.5	5632.8	5880.7	6070.5	6329.8	6591.9	6671.2	6794.5
5°	3728.7	3843.5	4129.7	4390.3	4554.7	5078.9	5410.4	5933.1	6402.0	6627.3	6872.4
7.5°	2589.7	2725.7	2943.9	3308.0	3653.7	4080.1	4615.6	5213.4	5900.5	6222.1	6567.8
10°	1817.6	1987.6	2295.0	2594.0	3028.9	3434.1	3962.5	4622.7	5380.6	5760.3	6193.8
12.5°	1147.5	1299.1	1705.7	2041.5	2584.1	3054.4	3541.7	4139.6	5017.9	5407.5	5862.3
15°	655.9	783.4	973.3	1403.9	2006.0	2628.0	3235.7	3929.9	4832.4	5312.6	5804.2
17.5°	488.8	522.8	607.8	851.4	1399.7	2126.5	2953.8	3866.2	4958.4	5522.3	6083.3
20°	410.8	433.5	473.2	569.5	892.5	1637.7	2679.0	3877.5	5366.4	6074.8	6607.5
22.5°	368.3	382.5	415.1	477.4	609.2	1192.9	2357.4	3944.1	5860.9	6753.4	7368.2
25°	323.0	341.4	369.8	423.6	507.2	827.4	2040.0	4092.8	6553.6	7614.7	8192.8
27.5°	287.6	304.6	332.9	382.5	444.8	631.8	1670.3	4220.3	7284.7	8481.8	8954.9
30°	252.2	269.2	297.5	337.2	393.8	511.4	1272.2	4295.4	7994.4	9132.0	9496.1
32.5°	222.4	236.6	263.5	298.9	345.7	433.5	1003.0	4217.5	8537.0	9722.8	9966.5
35°	192.7	209.7	232.3	264.9	306.0	369.8	834.4	3948.3	9003.1	10330.5	10418.4
37.5°	161.5	181.3	205.4	235.2	267.8	340.0	670.1	3650.8	9501.8	11088.5	10944.0
40°	136.0	154.4	177.1	209.7	239.4	311.7	515.7	3333.5	10040.1	11799.7	11517.7
42.5°	110.5	130.3	157.3	187.0	236.6	272.0	399.5	3004.8	10523.2	12418.8	12036.3
45°	87.8	104.8	133.2	171.4	235.2	233.8	308.8	2680.4	10887.3	12860.8	12423.0
47.5°	69.4	83.6	111.9	167.2	216.8	198.3	247.9	2479.2	11269.8	13258.9	12719.1
50°	55.3	69.4	96.3	174.3	189.8	170.0	208.3	2511.8	11639.6	13461.4	12840.9
52.5°	46.8	60.9	83.6	137.4	145.9	148.8	182.8	2662.0	12117.0	13678.2	13083.2
55°	41.1	53.8	70.8	96.3	113.3	133.2	167.2	2771.1	12755.9	14142.9	13617.3
57.5°	32.6	46.8	63.8	82.2	93.5	116.2	154.4	2779.6	13333.9	14739.3	14327.0
59°	29.8	42.5	59.5	77.9	83.6	104.8	145.9	2707.3	13355.2	14828.6	14652.9
60°	26.9	41.1	56.7	72.3	79.3	99.2	138.8	2623.7	13162.5	14686.9	14787.5
62.5°	22.7	35.4	49.6	58.1	68.0	82.2	120.4	2320.5	12228.9	14045.1	14538.1
65°	19.8	31.2	42.5	48.2	56.7	70.8	106.3	1857.3	11197.6	13175.3	13824.1
67.5°	18.4	28.3	36.8	41.1	49.6	65.2	94.9	1311.9	9861.6	12071.7	12751.7
70°	17.0	26.9	32.6	38.3	43.9	55.3	80.8	765.0	7596.3	10136.5	10854.7
72.5°	17.0	25.5	28.3	32.6	38.3	49.6	75.1	413.7	5193.6	7732.3	8660.3
75°	17.0	24.1	25.5	28.3	34.0	45.3	66.6	216.8	3357.6	5372.1	6630.1
77.5°	17.0	22.7	25.5	26.9	32.6	39.7	58.1	136.0	2237.0	3762.7	4481.0
80°	18.4	22.7	24.1	26.9	31.2	36.8	48.2	90.7	1314.7	2263.9	2727.1
82.5°	19.8	22.7	25.5	28.3	32.6	35.4	42.5	56.7	606.3	1497.4	1694.4
85°	21.3	24.1	26.9	29.8	34.0	35.4	39.7	41.1	99.2	675.8	913.8
87.5°	22.7	25.5	28.3	31.2	36.8	36.8	36.8	36.8	34.0	72.3	184.2
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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CATALOG NUMBER: GALN-SA5B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8	6159.8
2.5°	6950.3	7110.4	7222.3	7250.7	7169.9	7133.1	7031.1	6872.4	6776.1	6771.8
5°	7324.3	7699.7	7960.4	8004.3	7848.5	7585.0	7271.9	6868.1	6631.6	6560.7
7.5°	7260.6	7917.9	8337.3	8398.2	8136.1	7633.2	7026.8	6376.5	6118.7	6009.6
10°	6998.5	7800.3	8399.6	8495.9	8146.0	7437.7	6667.0	5941.6	5621.5	5537.9
12.5°	6774.6	7585.0	8117.7	8250.8	7985.9	7279.0	6451.6	5662.5	5319.7	5241.8
15°	6676.9	7330.0	7655.8	7723.8	7679.9	7179.8	6429.0	5620.0	5227.6	5142.6
17.5°	6774.6	7113.2	7154.3	7223.7	7321.5	7169.9	6647.1	5851.0	5427.4	5322.5
20°	7031.1	6924.8	6754.8	6784.6	7008.4	7211.0	7035.3	6362.4	5846.7	5734.8
22.5°	7467.4	6878.1	6492.7	6467.2	6750.6	7348.4	7604.8	7055.1	6457.3	6346.8
25°	8002.9	6995.6	6396.4	6341.1	6650.0	7549.6	8223.9	7903.7	7250.7	7082.1
27.5°	8586.6	7239.3	6396.4	6342.5	6641.5	7728.1	8753.8	8654.6	8072.3	7888.2
30°	8906.8	7440.5	6488.5	6427.6	6746.3	7831.5	9037.1	9321.9	8690.0	8461.9
32.5°	9192.9	7719.6	6668.4	6553.6	6965.9	7984.5	9290.7	9888.5	9181.6	9028.6
35°	9456.4	8018.5	6916.3	6783.1	7254.9	8194.2	9571.2	10483.6	9865.9	9635.0
37.5°	9746.9	8365.6	7303.1	7189.7	7738.0	8602.2	9904.1	11265.6	10538.8	10248.4
40°	10062.8	8767.9	7939.2	7891.0	8505.8	9064.0	10324.9	12100.0	11306.7	10976.6
42.5°	10384.4	9231.2	8718.3	8797.7	9375.7	9711.5	10757.0	12741.8	11935.7	11571.6
45°	10676.2	9823.4	9731.3	10123.7	10390.0	10343.3	11077.1	13193.7	12483.9	12135.4
47.5°	11044.6	10686.1	10956.7	11561.7	11568.7	11030.4	11319.4	13563.4	12955.7	12607.2
50°	11456.8	11704.7	12539.2	13155.4	12989.7	11706.2	11602.7	14001.2	13443.0	13163.9
52.5°	11934.2	12845.2	14001.2	14685.5	14298.7	12442.8	12074.5	14474.4	14216.5	13948.8
55°	12489.6	13623.0	15459.0	16004.4	15614.8	13358.0	12791.3	15116.1	15090.6	14907.9
57.5°	13117.2	14444.6	16303.3	17041.4	16694.3	14431.9	13793.0	15721.1	15624.7	15522.7
59°	13613.0	14866.8	16675.9	17440.9	17231.3	15184.1	14465.9	16097.9	15748.0	15595.0
60°	13913.4	15153.0	16813.3	17494.8	17446.6	15631.8	14892.3	16282.1	15746.6	15534.1
62.5°	14804.5	15653.1	16760.9	17255.4	17443.8	16490.3	16143.3	16484.7	15454.7	15143.1
65°	15121.8	15487.3	15892.5	15831.6	15993.1	16446.4	16942.3	16262.3	14831.4	14388.0
67.5°	14504.1	13669.7	13812.8	13406.2	13326.9	14621.7	16617.8	15174.2	13611.6	13069.0
70°	12226.1	10472.2	10400.0	10587.0	10074.1	11837.9	14922.1	13078.9	11598.5	10983.6
72.5°	9623.6	7400.8	6791.6	7480.2	7464.6	9031.4	12396.1	9280.8	7835.7	7783.3
75°	7568.0	5152.5	4522.1	4634.0	4849.4	6538.1	9873.0	5893.5	4825.3	4397.4
77.5°	5080.3	3650.8	3405.7	3268.3	3500.7	4197.7	6246.2	3196.1	2705.9	2562.8
80°	2928.3	2652.1	3011.9	2734.2	2858.9	2645.0	3106.8	1466.3	1216.9	1317.5
82.5°	1905.5	1510.2	1609.4	1195.7	1634.9	1649.0	997.4	433.5	366.9	389.6
85°	1191.4	708.3	398.1	283.3	563.8	1037.0	311.7	26.9	31.2	26.9
87.5°	308.8	117.6	49.6	73.7	90.7	80.8	72.3	4.3	1.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)