

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: P453249

Luminaire Tested: **GALN-SA4B-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453249
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-SA4B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 14722 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

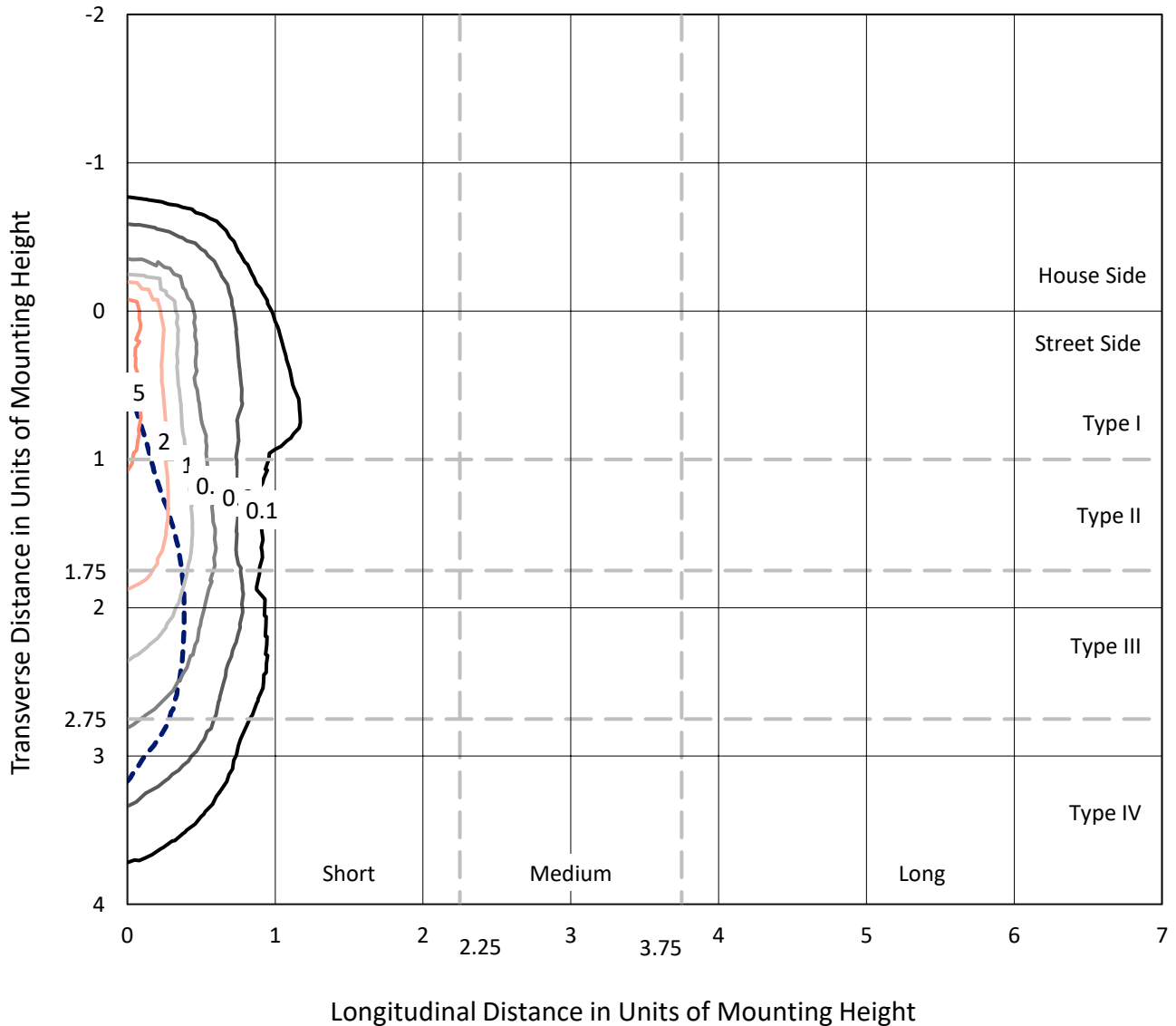
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

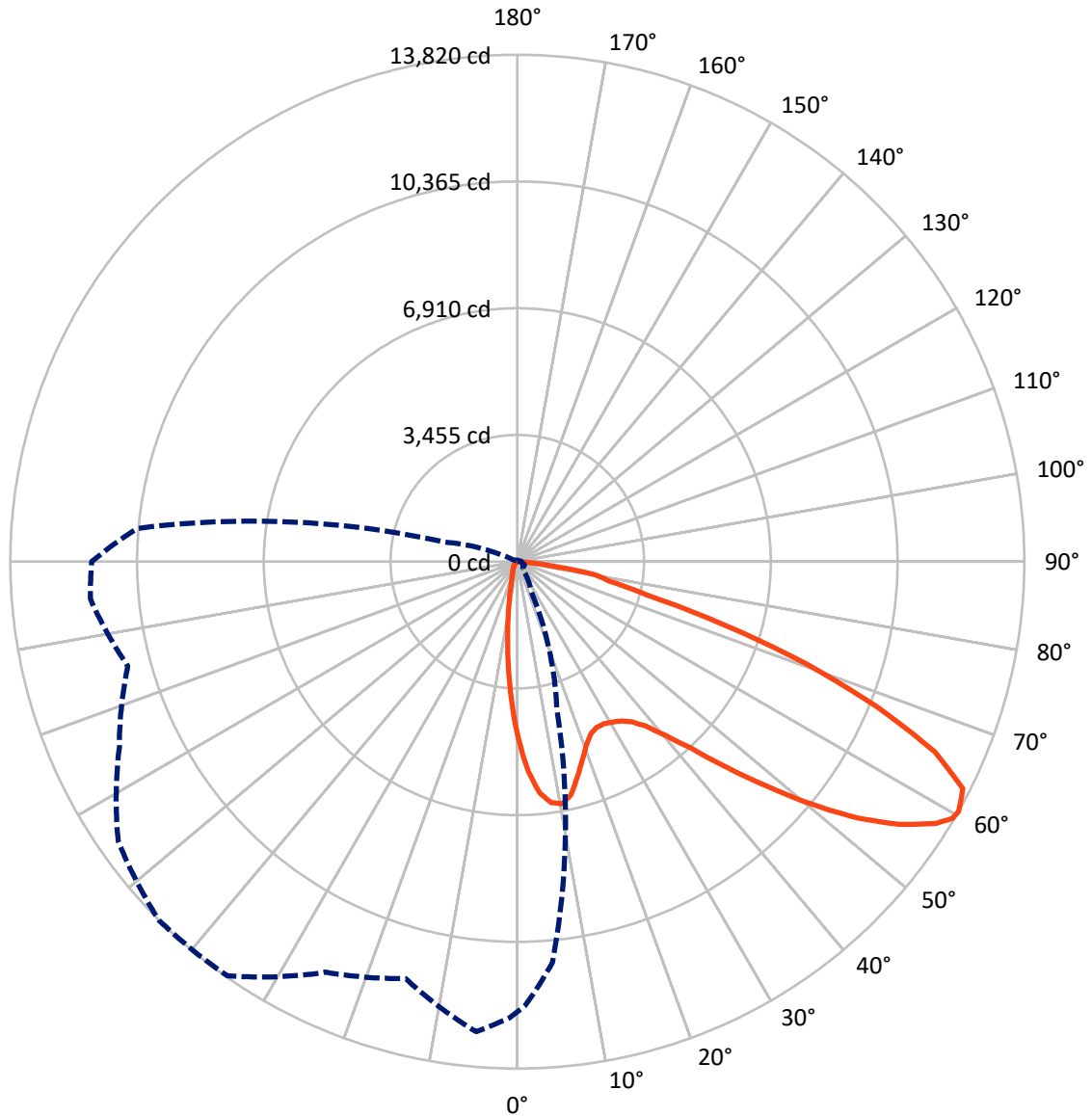
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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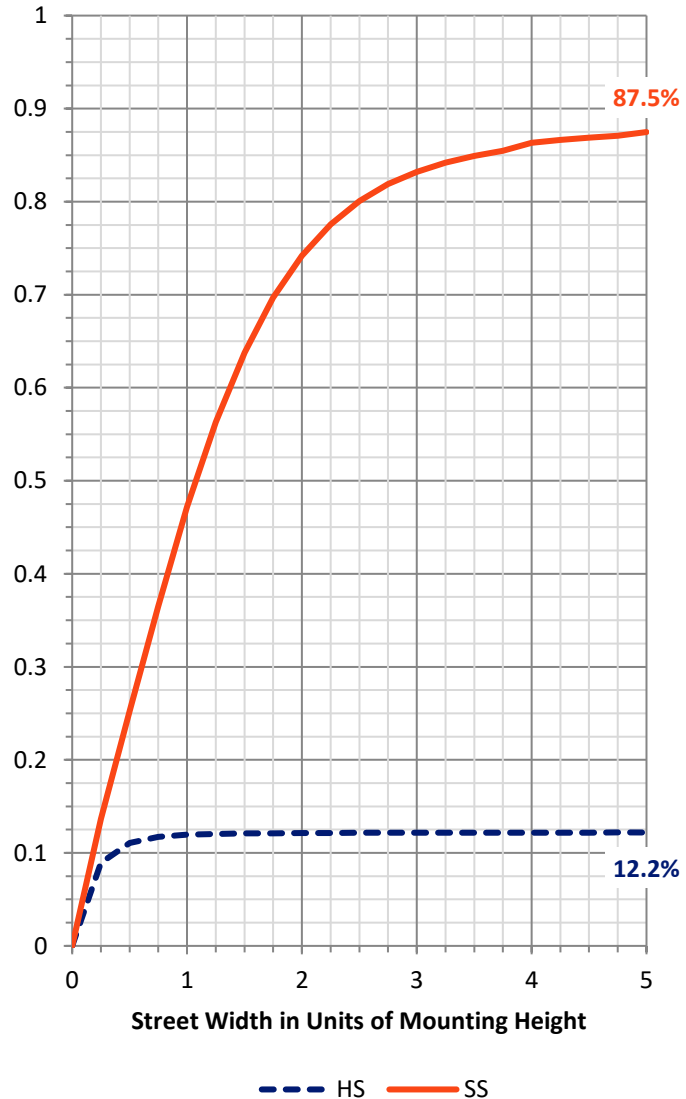
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1815.8	0.0	1815.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	12906.2	0.0	12906.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	14722.0	0.0	14722.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	2.5
10°-20°	718.7	4.9
20°-30°	1053.9	7.2
30°-40°	1567.3	10.6
40°-50°	2280.9	15.5
50°-60°	3289.2	22.3
60°-70°	3617.8	24.6
70°-80°	1620.5	11.0
80°-90°	211.7	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°	14722.0	100.0
0°-180°	14722.0	100.0



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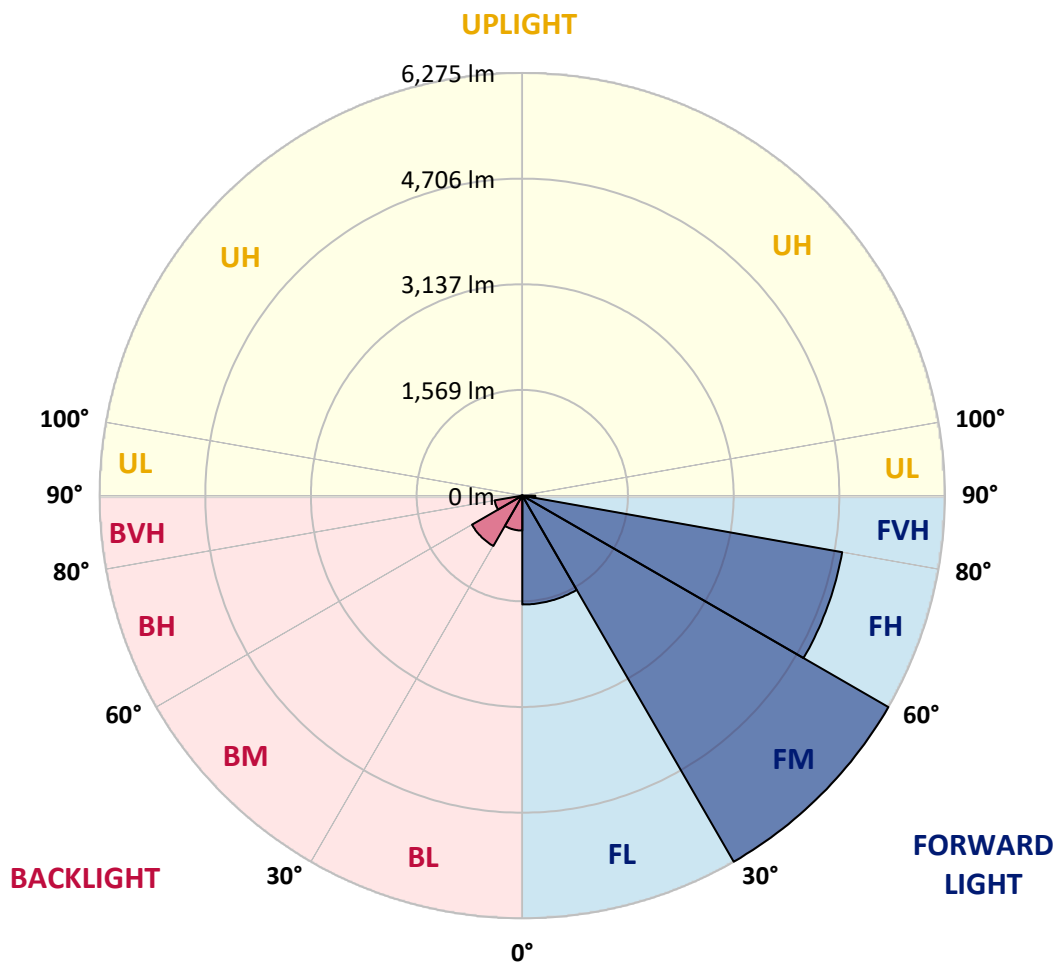
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.7	11.0			
FM (30°-60°)	6275.0	42.6			
FH (60°-80°)	4821.9	32.8			G2/5000
FVH (80°-90°)	193.6	1.3			G2/225
BL (0°-30°)	518.8	3.5	B2/1000		
BM (30°-60°)	862.5	5.9	B1/1000		
BH (60°-80°)	416.4	2.8	B1/500		G1/500
BVH (80°-90°)	18.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8
2.5°	5349.3	5325.8	5272.1	5108.7	4966.6	4780.8	4592.8	4445.1	4354.4	4187.7	4111.6
5°	5182.5	5193.7	5038.2	4702.4	4328.7	4073.5	3794.9	3573.3	3329.3	3174.9	3012.6
7.5°	4747.2	4724.8	4555.8	4088.1	3633.7	3264.4	2911.9	2625.4	2445.2	2300.9	2180.0
10°	4374.5	4357.8	4141.8	3539.7	3051.8	2775.4	2537.0	2286.3	2092.7	1881.2	1712.2
12.5°	4140.7	4102.6	3854.2	3225.2	2828.0	2570.6	2310.9	2050.2	1782.7	1569.0	1364.2
15°	4062.3	4007.5	3731.1	3116.7	2684.7	2357.9	2032.3	1732.4	1424.6	1188.5	1034.0
17.5°	4204.4	4113.8	3819.5	3097.7	2513.5	2080.4	1679.8	1289.2	969.1	789.0	693.8
20°	4530.1	4426.0	4043.3	3078.6	2323.2	1769.3	1276.9	910.9	670.3	571.9	519.3
22.5°	5013.6	4870.3	4374.5	3108.8	2147.5	1466.0	922.1	643.5	532.7	471.1	434.2
25°	5594.4	5474.6	4794.2	3216.3	2008.8	1227.6	712.9	526.0	448.8	410.7	382.7
27.5°	6231.1	6039.8	5337.0	3345.0	1882.3	1043.0	625.6	470.0	399.5	364.8	350.3
30°	6684.4	6535.5	5791.3	3434.5	1724.5	904.2	571.9	463.3	400.6	359.2	332.4
32.5°	7132.0	6941.8	6171.8	3475.9	1609.3	808.0	494.6	404.0	351.4	330.1	303.3
35°	7611.0	7411.8	6551.2	3453.5	1523.1	744.2	448.8	360.3	301.0	265.2	238.4
37.5°	8095.5	7885.2	6928.3	3373.0	1469.4	718.5	412.9	342.4	284.3	247.3	218.2
40°	8670.8	8389.9	7282.0	3306.9	1413.4	705.0	389.4	331.3	271.9	232.8	203.7
42.5°	9140.8	8873.3	7616.6	3272.2	1375.4	673.7	389.4	322.3	264.1	220.5	190.2
45°	9586.2	9308.6	7978.0	3300.2	1359.7	634.5	393.9	321.2	258.5	211.5	181.3
47.5°	9958.8	9718.2	8349.6	3405.4	1339.6	592.0	370.4	336.8	255.2	203.7	172.3
50°	10398.6	10165.9	8840.9	3618.0	1303.7	549.5	341.3	362.6	254.0	197.0	164.5
52.5°	11018.6	10766.8	9519.0	3859.8	1246.7	484.6	314.5	359.2	249.6	185.8	156.7
55°	11776.3	11572.6	10304.6	4149.6	1168.3	411.8	271.9	318.9	236.1	166.7	143.2
57.5°	12261.9	12088.5	10893.3	4274.9	1048.6	336.8	239.5	267.5	216.0	148.8	127.6
59°	12319.0	12162.3	11016.4	4233.5	970.3	307.8	223.8	229.4	210.4	138.8	118.6
60°	12270.9	12108.6	10967.1	4153.0	897.5	287.6	210.4	203.7	211.5	133.2	111.9
62.5°	11962.0	11684.5	10489.3	3744.5	784.5	264.1	186.9	166.7	186.9	119.7	99.6
65°	11365.5	10949.2	9543.7	3169.3	739.7	250.7	158.9	139.9	142.1	105.2	86.2
67.5°	10323.7	9798.8	8284.7	2575.0	720.7	251.8	134.3	125.3	109.7	89.5	76.1
70°	8676.4	8152.6	6647.4	2118.4	711.7	251.8	114.1	107.4	91.8	75.0	66.0
72.5°	6148.3	5584.3	4484.2	1664.1	641.2	250.7	97.4	97.4	75.0	62.7	53.7
75°	3473.7	3478.2	2819.0	1177.3	532.7	207.0	78.3	77.2	54.8	48.1	40.3
77.5°	2024.4	1988.6	1900.2	505.8	247.3	94.0	54.8	47.0	38.0	34.7	29.1
80°	1040.8	856.1	833.7	183.5	88.4	59.3	38.0	26.9	24.6	22.4	20.1
82.5°	307.8	308.9	275.3	73.9	49.2	39.2	19.0	14.5	13.4	12.3	12.3
85°	21.3	13.4	15.7	22.4	30.2	15.7	1.1	3.4	3.4	4.5	5.6
87.5°	2.2	1.1	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°	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8
2.5°	4027.6	4076.9	3985.1	3987.3	3911.2	3935.9	3846.3	3875.4	3822.8	3863.1	3981.7
5°	3030.5	3041.7	2967.8	2944.3	2955.5	3001.4	3019.3	2937.6	2972.3	2904.1	2899.6
7.5°	2135.2	2148.7	2106.1	2100.5	2181.1	2162.1	2196.8	2112.9	2033.4	2068.1	2004.3
10°	1658.5	1602.5	1515.3	1490.6	1475.0	1485.0	1485.0	1408.9	1397.8	1367.5	1413.4
12.5°	1309.3	1241.1	1158.3	1046.4	1018.4	1016.1	974.7	907.6	886.3	860.6	898.6
15°	951.2	923.3	853.9	791.2	727.4	715.1	648.0	593.1	520.4	510.3	507.0
17.5°	669.2	627.8	626.7	590.9	554.0	529.3	466.7	404.0	376.0	372.7	372.7
20°	501.4	486.8	463.3	458.8	447.6	419.7	363.7	330.1	316.7	317.8	322.3
22.5°	421.9	411.8	390.6	380.5	376.0	351.4	310.0	287.6	280.9	280.9	282.0
25°	377.1	368.2	344.7	329.0	323.4	305.5	273.1	256.3	250.7	250.7	250.7
27.5°	343.6	332.4	307.8	294.3	284.3	264.1	244.0	227.2	221.6	221.6	222.7
30°	320.1	307.8	285.4	267.5	251.8	233.9	217.1	202.6	195.8	194.7	195.8
32.5°	288.7	277.5	255.2	244.0	226.1	204.8	191.4	177.9	171.2	172.3	171.2
35°	224.9	221.6	205.9	209.3	199.2	181.3	169.0	154.4	146.6	145.5	147.7
37.5°	204.8	191.4	173.5	174.6	171.2	164.5	144.4	128.7	123.1	123.1	124.2
40°	189.1	175.7	155.6	145.5	146.6	146.6	125.3	108.6	103.0	101.8	104.1
42.5°	175.7	162.3	139.9	123.1	118.6	124.2	106.3	89.5	83.9	81.7	83.9
45°	166.7	152.2	126.5	107.4	94.0	100.7	87.3	73.9	67.1	67.1	66.0
47.5°	157.8	144.4	116.4	92.9	78.3	75.0	71.6	59.3	52.6	51.5	52.6
50°	150.0	136.5	105.2	80.6	66.0	58.2	58.2	47.0	42.5	40.3	41.4
52.5°	142.1	127.6	95.1	71.6	57.1	47.0	41.4	38.0	34.7	33.6	34.7
55°	130.9	116.4	85.1	61.6	49.2	39.2	32.5	31.3	29.1	26.9	29.1
57.5°	117.5	104.1	75.0	52.6	39.2	30.2	26.9	25.7	23.5	22.4	22.4
59°	109.7	97.4	69.4	45.9	34.7	26.9	24.6	23.5	21.3	19.0	20.1
60°	105.2	95.1	66.0	42.5	31.3	24.6	22.4	21.3	19.0	17.9	19.0
62.5°	92.9	85.1	58.2	34.7	24.6	17.9	15.7	16.8	15.7	14.5	15.7
65°	81.7	75.0	49.2	26.9	19.0	12.3	11.2	14.5	13.4	12.3	13.4
67.5°	72.7	64.9	41.4	20.1	13.4	6.7	7.8	12.3	12.3	11.2	12.3
70°	62.7	56.0	33.6	14.5	6.7	3.4	5.6	9.0	11.2	10.1	11.2
72.5°	51.5	43.6	25.7	10.1	3.4	0.0	3.4	7.8	11.2	10.1	11.2
75°	40.3	32.5	19.0	5.6	0.0	0.0	1.1	6.7	11.2	10.1	11.2
77.5°	29.1	23.5	11.2	1.1	0.0	0.0	1.1	6.7	11.2	10.1	11.2
80°	19.0	16.8	4.5	0.0	0.0	0.0	1.1	6.7	11.2	11.2	12.3
82.5°	12.3	9.0	0.0	0.0	0.0	0.0	2.2	9.0	12.3	13.4	13.4
85°	5.6	0.0	0.0	0.0	0.0	0.0	4.5	11.2	14.5	14.5	14.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	7.8	13.4	16.8	16.8	16.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8
2.5°	4001.9	4072.4	4172.0	4325.3	4449.5	4645.4	4795.3	5000.1	5207.2	5269.8	5367.2
5°	2945.5	3036.1	3262.2	3468.1	3597.9	4012.0	4273.8	4686.8	5057.2	5235.1	5428.7
7.5°	2045.7	2153.1	2325.5	2613.1	2886.1	3223.0	3646.0	4118.3	4661.0	4915.1	5188.1
10°	1435.8	1570.1	1812.9	2049.1	2392.6	2712.7	3130.1	3651.6	4250.3	4550.2	4892.7
12.5°	906.5	1026.2	1347.4	1612.6	2041.2	2412.8	2797.7	3270.0	3963.8	4271.6	4630.8
15°	518.1	618.9	768.8	1109.0	1584.6	2075.9	2556.0	3104.4	3817.2	4196.6	4584.9
17.5°	386.1	412.9	480.1	672.6	1105.7	1679.8	2333.3	3054.0	3916.8	4362.2	4805.4
20°	324.5	342.4	373.8	449.9	705.0	1293.7	2116.2	3063.0	4239.1	4798.7	5219.5
22.5°	291.0	302.2	327.9	377.1	481.2	942.3	1862.2	3115.6	4629.7	5334.7	5820.4
25°	255.2	269.7	292.1	334.6	400.6	653.6	1611.5	3233.1	5176.9	6015.1	6471.7
27.5°	227.2	240.6	263.0	302.2	351.4	499.1	1319.4	3333.8	5754.4	6700.0	7073.8
30°	199.2	212.6	235.0	266.3	311.1	404.0	1004.9	3393.1	6315.1	7213.7	7501.3
32.5°	175.7	186.9	208.2	236.1	273.1	342.4	792.3	3331.6	6743.7	7680.4	7872.8
35°	152.2	165.6	183.5	209.3	241.7	292.1	659.1	3118.9	7111.9	8160.5	8229.8
37.5°	127.6	143.2	162.3	185.8	211.5	268.6	529.3	2883.9	7505.8	8759.2	8645.0
40°	107.4	122.0	139.9	165.6	189.1	246.2	407.4	2633.2	7931.0	9321.0	9098.3
42.5°	87.3	103.0	124.2	147.7	186.9	214.9	315.6	2373.6	8312.6	9810.0	9507.8
45°	69.4	82.8	105.2	135.4	185.8	184.7	244.0	2117.3	8600.3	10159.2	9813.4
47.5°	54.8	66.0	88.4	132.1	171.2	156.7	195.8	1958.4	8902.4	10473.6	10047.2
50°	43.6	54.8	76.1	137.6	150.0	134.3	164.5	1984.2	9194.5	10633.7	10143.5
52.5°	36.9	48.1	66.0	108.6	115.3	117.5	144.4	2102.8	9571.6	10804.9	10334.9
55°	32.5	42.5	56.0	76.1	89.5	105.2	132.1	2189.0	10076.3	11171.9	10756.8
57.5°	25.7	36.9	50.4	64.9	73.9	91.8	122.0	2195.7	10532.9	11643.1	11317.4
59°	23.5	33.6	47.0	61.6	66.0	82.8	115.3	2138.6	10549.7	11713.6	11574.8
60°	21.3	32.5	44.8	57.1	62.7	78.3	109.7	2072.6	10397.5	11601.7	11681.1
62.5°	17.9	28.0	39.2	45.9	53.7	64.9	95.1	1833.1	9660.0	11094.7	11484.2
65°	15.7	24.6	33.6	38.0	44.8	56.0	83.9	1467.1	8845.3	10407.6	10920.1
67.5°	14.5	22.4	29.1	32.5	39.2	51.5	75.0	1036.3	7790.0	9535.8	10073.0
70°	13.4	21.3	25.7	30.2	34.7	43.6	63.8	604.3	6000.6	8007.1	8574.5
72.5°	13.4	20.1	22.4	25.7	30.2	39.2	59.3	326.8	4102.6	6108.0	6841.0
75°	13.4	19.0	20.1	22.4	26.9	35.8	52.6	171.2	2652.3	4243.6	5237.4
77.5°	13.4	17.9	20.1	21.3	25.7	31.3	45.9	107.4	1767.1	2972.3	3539.7
80°	14.5	17.9	19.0	21.3	24.6	29.1	38.0	71.6	1038.5	1788.3	2154.3
82.5°	15.7	17.9	20.1	22.4	25.7	28.0	33.6	44.8	479.0	1182.9	1338.4
85°	16.8	19.0	21.3	23.5	26.9	28.0	31.3	32.5	78.3	533.8	721.8
87.5°	17.9	20.1	22.4	24.6	29.1	29.1	29.1	29.1	26.9	57.1	145.5
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-SA4B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8	4865.8
2.5°	5490.3	5616.7	5705.2	5727.5	5663.7	5634.7	5554.1	5428.7	5352.6	5349.3
5°	5785.7	6082.3	6288.2	6322.9	6199.8	5991.6	5744.3	5425.4	5238.5	5182.5
7.5°	5735.4	6254.6	6585.9	6634.0	6427.0	6029.7	5550.7	5037.1	4833.4	4747.2
10°	5528.3	6161.7	6635.1	6711.2	6434.8	5875.3	5266.5	4693.5	4440.6	4374.5
12.5°	5351.5	5991.6	6412.4	6517.6	6308.3	5749.9	5096.4	4473.0	4202.2	4140.7
15°	5274.3	5790.2	6047.6	6101.3	6066.6	5671.6	5078.5	4439.5	4129.5	4062.3
17.5°	5351.5	5619.0	5651.4	5706.3	5783.5	5663.7	5250.8	4621.9	4287.3	4204.4
20°	5554.1	5470.1	5335.9	5359.4	5536.2	5696.2	5557.4	5025.9	4618.5	4530.1
22.5°	5898.8	5433.2	5128.8	5108.7	5332.5	5804.8	6007.3	5573.1	5100.8	5013.6
25°	6321.8	5526.1	5052.7	5009.1	5253.0	5963.7	6496.4	6243.4	5727.5	5594.4
27.5°	6782.8	5718.6	5052.7	5010.2	5246.3	6104.7	6914.9	6836.6	6376.6	6231.1
30°	7035.8	5877.5	5125.5	5077.3	5329.1	6186.4	7138.7	7363.7	6864.5	6684.4
32.5°	7261.8	6098.0	5267.6	5176.9	5502.6	6307.2	7339.0	7811.3	7252.9	7132.0
35°	7470.0	6334.1	5463.4	5358.2	5730.9	6472.9	7560.6	8281.3	7793.4	7611.0
37.5°	7699.4	6608.3	5768.9	5679.4	6112.5	6795.2	7823.6	8899.1	8325.0	8095.5
40°	7948.9	6926.1	6271.4	6233.4	6719.1	7160.0	8156.0	9558.2	8931.5	8670.8
42.5°	8203.0	7292.0	6886.9	6949.6	7406.2	7671.4	8497.3	10065.2	9428.4	9140.8
45°	8433.5	7759.8	7687.1	7997.1	8207.5	8170.5	8750.2	10422.1	9861.5	9586.2
47.5°	8724.5	8441.3	8655.1	9132.9	9138.5	8713.3	8941.6	10714.2	10234.1	9958.8
50°	9050.1	9246.0	9905.1	10391.9	10261.0	9247.1	9165.4	11060.0	10619.1	10398.6
52.5°	9427.3	10146.8	11060.0	11600.6	11295.0	9829.0	9538.1	11433.8	11230.1	11018.6
55°	9866.0	10761.2	12211.6	12642.4	12334.7	10552.0	10104.3	11940.8	11920.6	11776.3
57.5°	10361.7	11410.3	12878.6	13461.6	13187.4	11400.2	10895.5	12418.6	12342.5	12261.9
59°	10753.4	11743.8	13172.9	13777.2	13611.6	11994.5	11427.1	12716.3	12439.9	12319.0
60°	10990.6	11969.9	13281.4	13819.7	13781.7	12348.1	11763.9	12861.8	12438.8	12270.9
62.5°	11694.6	12364.9	13240.0	13630.6	13779.4	13026.3	12752.1	13021.8	12208.2	11962.0
65°	11945.2	12234.0	12554.0	12505.9	12633.5	12991.6	13383.3	12846.1	11715.8	11365.5
67.5°	11457.3	10798.2	10911.2	10590.0	10527.3	11550.2	13127.0	11986.6	10752.3	10323.7
70°	9657.8	8272.4	8215.3	8363.0	7957.9	9351.2	11787.4	10331.5	9162.0	8676.4
72.5°	7602.0	5846.2	5364.9	5908.8	5896.5	7134.2	9792.1	7331.2	6189.7	6148.3
75°	5978.2	4070.2	3572.2	3660.6	3830.7	5164.6	7799.0	4655.4	3811.6	3473.7
77.5°	4013.1	2883.9	2690.3	2581.8	2765.3	3315.9	4934.1	2524.7	2137.5	2024.4
80°	2313.2	2094.9	2379.2	2159.9	2258.3	2089.4	2454.2	1158.3	961.3	1040.8
82.5°	1505.2	1193.0	1271.3	944.5	1291.4	1302.6	787.8	342.4	289.8	307.8
85°	941.2	559.5	314.5	223.8	445.4	819.2	246.2	21.3	24.6	21.3
87.5°	244.0	92.9	39.2	58.2	71.6	63.8	57.1	3.4	1.1	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)