

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: P651960

Luminaire Tested: **GALN-SA6A-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651960
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-SA6A-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA 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: 16378.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

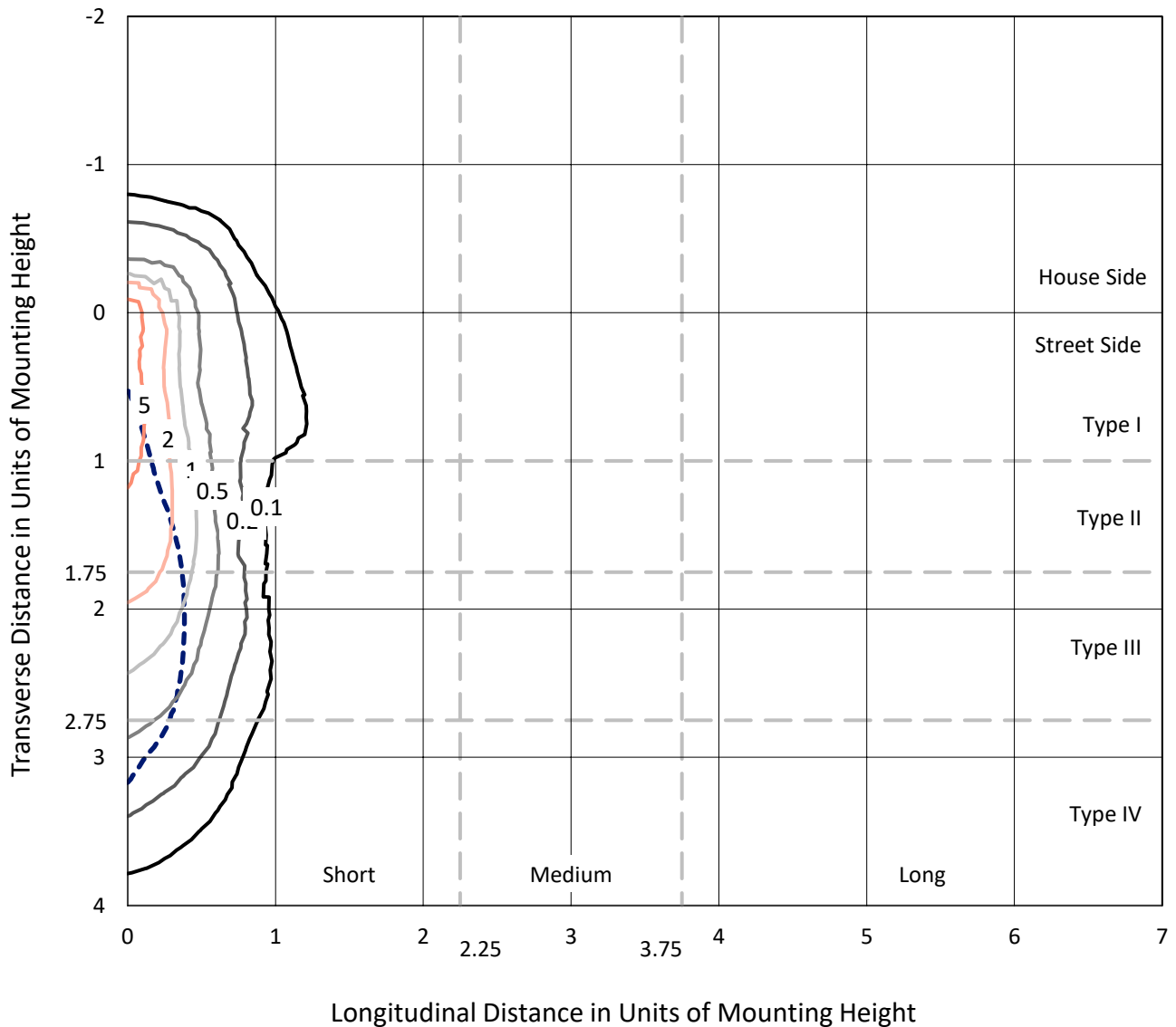
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

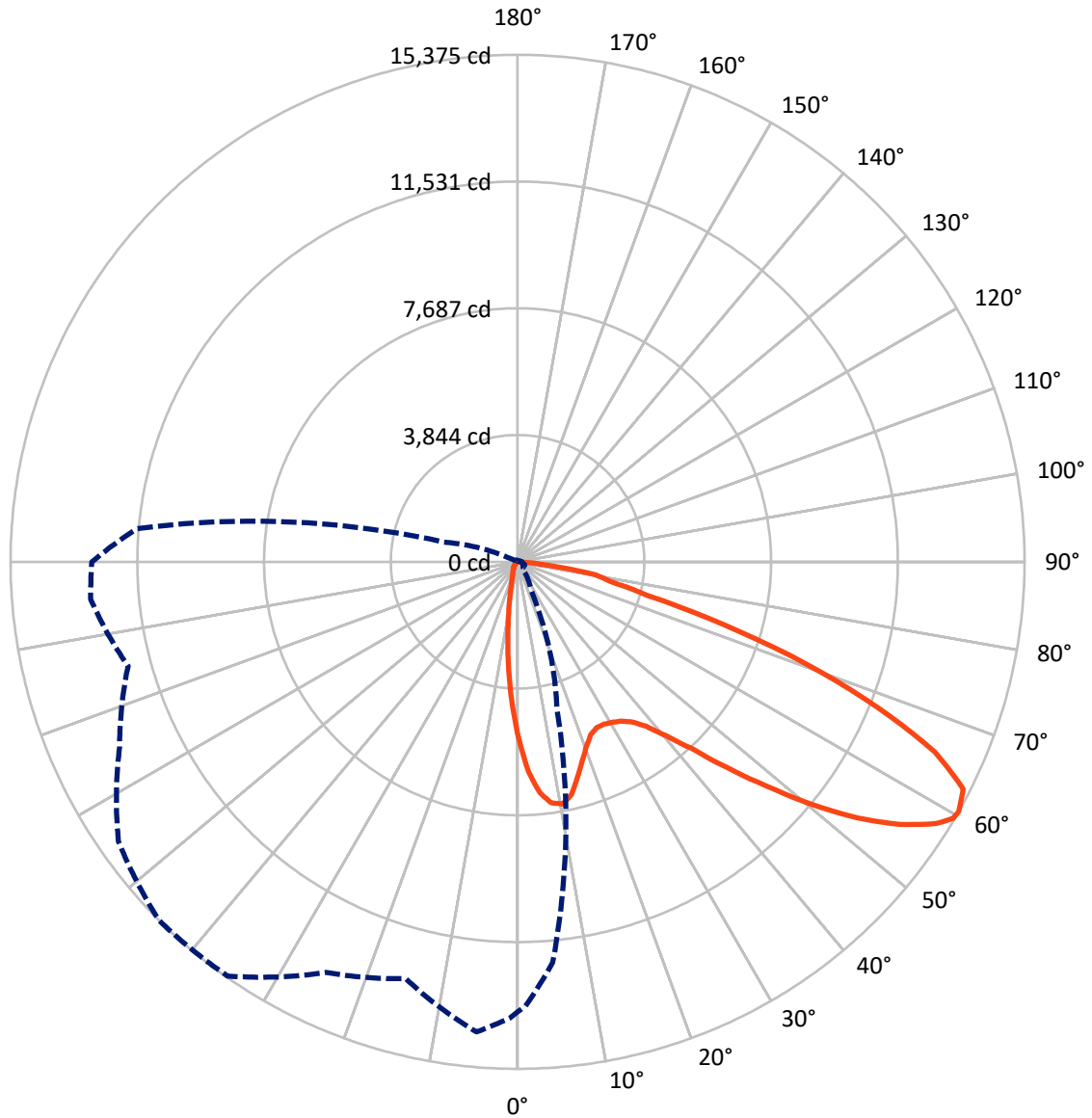
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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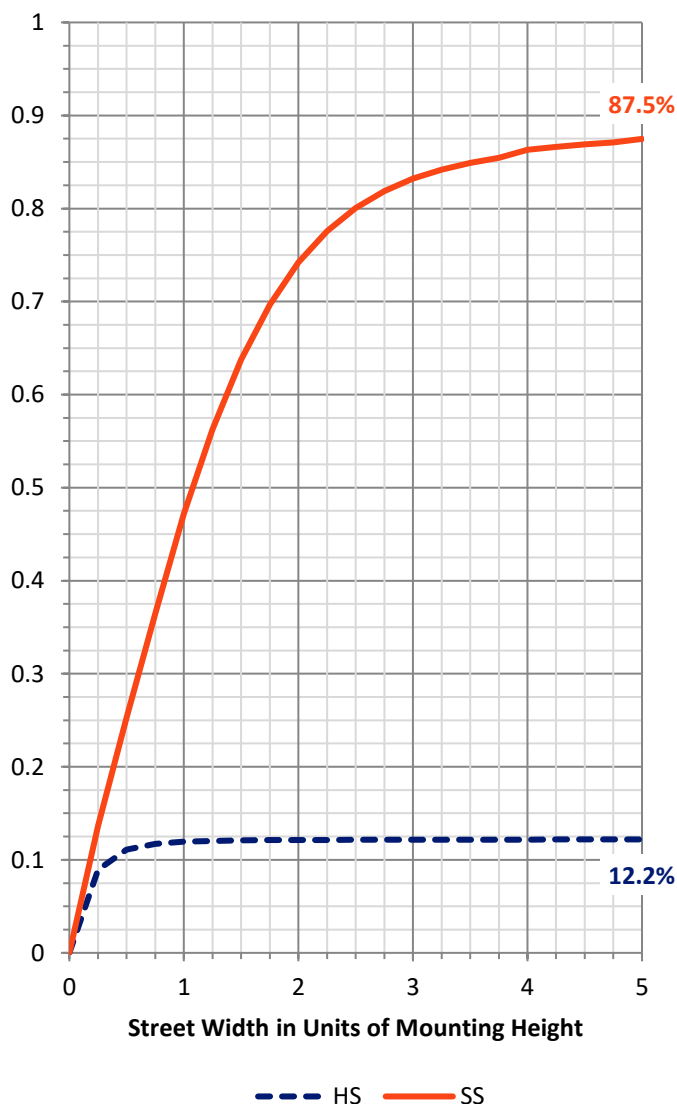
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2020.1	0.0	2020.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	14358.4	0.0	14358.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	16378.5	0.0	16378.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	2.5
10°-20°	799.6	4.9
20°-30°	1172.5	7.2
30°-40°	1743.6	10.6
40°-50°	2537.5	15.5
50°-60°	3659.3	22.3
60°-70°	4024.9	24.6
70°-80°	1802.8	11.0
80°-90°	235.6	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°	16378.5	100.0
0°-180°	16378.5	100.0

Coefficient of Utilization



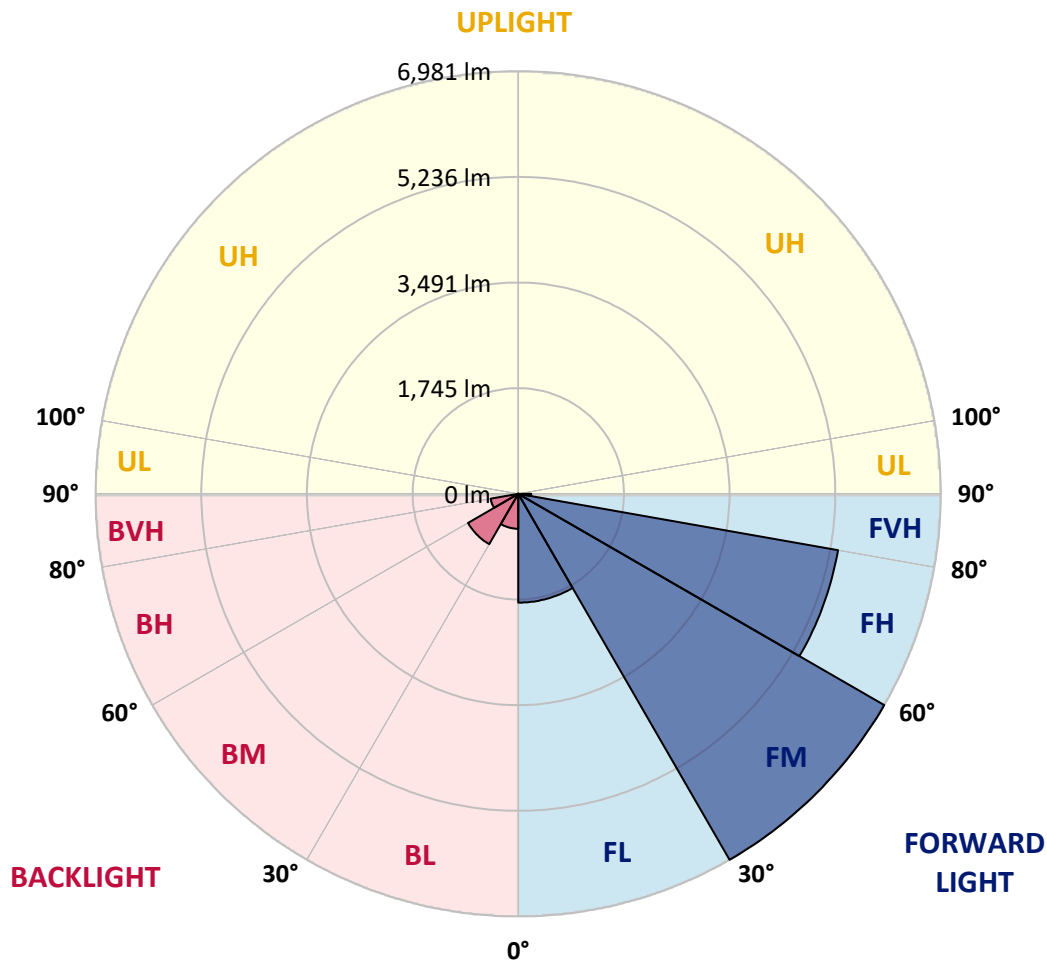
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.5	11.0			
FM (30°-60°)	6981.0	42.6			
FH (60°-80°)	5364.4	32.8			G3/7500
FVH (80°-90°)	215.4	1.3			G2/225
BL (0°-30°)	577.2	3.5	B2/1000		
BM (30°-60°)	959.5	5.9	B1/1000		
BH (60°-80°)	463.3	2.8	B1/500		G1/500
BVH (80°-90°)	20.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3
2.5°	5951.2	5925.0	5865.2	5683.5	5525.4	5318.7	5109.5	4945.2	4844.3	4658.8	4574.2
5°	5765.6	5778.1	5605.0	5231.5	4815.7	4531.8	4221.8	3975.3	3703.9	3532.1	3351.6
7.5°	5281.3	5256.4	5068.5	4548.0	4042.5	3631.7	3239.5	2920.8	2720.4	2559.8	2425.3
10°	4866.8	4848.1	4607.8	3938.0	3395.1	3087.6	2822.5	2543.6	2328.1	2092.8	1904.9
12.5°	4606.6	4564.2	4287.8	3588.1	3146.2	2859.8	2570.9	2280.9	1983.3	1745.5	1517.7
15°	4519.4	4458.4	4150.8	3467.4	2986.8	2623.2	2260.9	1927.3	1584.9	1322.2	1150.4
17.5°	4677.6	4576.6	4249.2	3446.2	2796.3	2314.5	1868.8	1434.2	1078.2	877.8	771.9
20°	5039.8	4924.1	4498.3	3425.1	2584.6	1968.4	1420.5	1013.4	745.8	636.2	577.7
22.5°	5577.7	5418.3	4866.8	3458.6	2389.2	1631.0	1025.9	715.9	592.7	524.1	483.1
25°	6223.8	6090.6	5333.6	3578.2	2234.8	1365.8	793.1	585.2	499.2	456.9	425.8
27.5°	6932.3	6719.3	5937.5	3721.3	2094.1	1160.3	695.9	522.9	444.5	405.9	389.7
30°	7436.5	7270.9	6443.0	3820.9	1918.6	1006.0	636.2	515.4	445.7	399.6	369.8
32.5°	7934.5	7722.8	6866.3	3867.0	1790.3	898.9	550.3	449.4	390.9	367.3	337.4
35°	8467.4	8245.8	7288.3	3842.1	1694.4	828.0	499.2	400.9	334.9	295.1	265.2
37.5°	9006.4	8772.4	7707.8	3752.5	1634.7	799.3	459.4	381.0	316.2	275.2	242.8
40°	9646.4	9333.8	8101.3	3679.0	1572.4	784.4	433.3	368.5	302.5	258.9	226.6
42.5°	10169.3	9871.7	8473.6	3640.4	1530.1	749.5	433.3	358.6	293.8	245.2	211.7
45°	10664.8	10356.0	8875.7	3671.6	1512.7	705.9	438.2	357.3	287.6	235.3	201.7
47.5°	11079.4	10811.7	9289.0	3788.5	1490.3	658.6	412.1	374.7	283.8	226.6	191.7
50°	11568.6	11309.7	9835.6	4025.1	1450.5	611.3	379.7	403.3	282.7	219.1	183.0
52.5°	12258.4	11978.3	10590.1	4294.1	1387.0	539.1	349.9	399.6	277.6	206.6	174.3
55°	13101.3	12874.7	11464.1	4616.5	1299.8	458.2	302.5	354.8	262.7	185.5	159.4
57.5°	13641.6	13448.6	12119.0	4755.9	1166.6	374.7	266.4	297.5	240.3	165.6	142.0
59°	13705.1	13530.8	12255.9	4709.9	1079.4	342.4	249.0	255.2	234.1	154.4	132.0
60°	13651.6	13471.1	12201.1	4620.3	998.5	320.0	234.1	226.6	235.3	148.2	124.5
62.5°	13308.0	12999.2	11669.5	4165.8	872.8	293.8	207.9	185.5	207.9	133.2	110.8
65°	12644.4	12181.2	10617.5	3525.9	822.9	278.9	176.8	155.6	158.1	117.1	95.9
67.5°	11485.3	10901.4	9216.9	2864.8	801.8	280.1	149.4	139.4	122.0	99.6	84.7
70°	9652.6	9069.9	7395.4	2356.8	791.8	280.1	127.0	119.5	102.1	83.4	73.4
72.5°	6840.1	6212.6	4988.8	1851.4	713.4	278.9	108.3	108.3	83.4	69.7	59.8
75°	3864.6	3869.5	3136.2	1309.8	592.7	230.3	87.1	85.9	61.0	53.6	44.8
77.5°	2252.2	2212.4	2114.0	562.7	275.2	104.6	61.0	52.3	42.3	38.6	32.4
80°	1157.9	952.4	927.5	204.2	98.4	66.0	42.3	29.9	27.4	24.9	22.4
82.5°	342.4	343.6	306.3	82.2	54.7	43.6	21.2	16.1	15.0	13.7	13.7
85°	23.6	15.0	17.4	24.9	33.6	17.4	1.3	3.7	3.7	5.0	6.2
87.5°	2.5	1.3	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°	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3
2.5°	4480.8	4535.6	4433.5	4436.0	4351.3	4378.8	4279.1	4311.5	4252.9	4297.8	4429.8
5°	3371.5	3383.9	3301.8	3275.6	3288.1	3339.1	3359.0	3268.1	3306.7	3230.8	3225.8
7.5°	2375.5	2390.5	2343.1	2336.9	2426.5	2405.3	2443.9	2350.6	2262.2	2300.8	2229.8
10°	1845.1	1782.8	1685.8	1658.4	1641.0	1652.1	1652.1	1567.5	1555.0	1521.4	1572.4
12.5°	1456.7	1380.8	1288.6	1164.1	1133.0	1130.5	1084.4	1009.7	986.1	957.4	999.8
15°	1058.2	1027.1	949.9	880.2	809.3	795.6	720.8	659.8	578.9	567.8	564.0
17.5°	744.5	698.5	697.2	657.3	616.3	588.9	519.1	449.4	418.3	414.6	414.6
20°	557.8	541.6	515.4	510.5	498.0	466.8	404.6	367.3	352.4	353.6	358.6
22.5°	469.4	458.2	434.5	423.3	418.3	390.9	344.9	320.0	312.5	312.5	313.8
25°	419.6	409.7	383.5	366.0	359.8	339.8	303.8	285.1	278.9	278.9	278.9
27.5°	382.2	369.8	342.4	327.4	316.2	293.8	271.4	252.7	246.5	246.5	247.8
30°	356.1	342.4	317.5	297.5	280.1	260.2	241.5	225.4	217.9	216.6	217.9
32.5°	321.2	308.7	283.8	271.4	251.5	227.8	212.9	198.0	190.5	191.7	190.5
35°	250.3	246.5	229.1	232.8	221.6	201.7	188.0	171.8	163.1	161.9	164.3
37.5°	227.8	212.9	193.0	194.2	190.5	183.0	160.6	143.1	136.9	136.9	138.2
40°	210.4	195.4	173.1	161.9	163.1	163.1	139.4	120.8	114.5	113.3	115.8
42.5°	195.4	180.6	155.6	136.9	132.0	138.2	118.2	99.6	93.4	90.9	93.4
45°	185.5	169.3	140.7	119.5	104.6	112.0	97.1	82.2	74.7	74.7	73.4
47.5°	175.5	160.6	129.5	103.4	87.1	83.4	79.6	66.0	58.5	57.3	58.5
50°	166.9	151.9	117.1	89.7	73.4	64.8	64.8	52.3	47.3	44.8	46.1
52.5°	158.1	142.0	105.8	79.6	63.5	52.3	46.1	42.3	38.6	37.3	38.6
55°	145.7	129.5	94.6	68.5	54.7	43.6	36.1	34.9	32.4	29.9	32.4
57.5°	130.7	115.8	83.4	58.5	43.6	33.6	29.9	28.6	26.2	24.9	24.9
59°	122.0	108.3	77.2	51.0	38.6	29.9	27.4	26.2	23.6	21.2	22.4
60°	117.1	105.8	73.4	47.3	34.9	27.4	24.9	23.6	21.2	19.9	21.2
62.5°	103.4	94.6	64.8	38.6	27.4	19.9	17.4	18.7	17.4	16.1	17.4
65°	90.9	83.4	54.7	29.9	21.2	13.7	12.4	16.1	15.0	13.7	15.0
67.5°	80.9	72.2	46.1	22.4	15.0	7.5	8.7	13.7	13.7	12.4	13.7
70°	69.7	62.2	37.3	16.1	7.5	3.7	6.2	9.9	12.4	11.2	12.4
72.5°	57.3	48.5	28.6	11.2	3.7	0.0	3.7	8.7	12.4	11.2	12.4
75°	44.8	36.1	21.2	6.2	0.0	0.0	1.3	7.5	12.4	11.2	12.4
77.5°	32.4	26.2	12.4	1.3	0.0	0.0	1.3	7.5	12.4	11.2	12.4
80°	21.2	18.7	5.0	0.0	0.0	0.0	1.3	7.5	12.4	12.4	13.7
82.5°	13.7	9.9	0.0	0.0	0.0	0.0	2.5	9.9	13.7	15.0	15.0
85°	6.2	0.0	0.0	0.0	0.0	0.0	5.0	12.4	16.1	16.1	16.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	8.7	15.0	18.7	18.7	18.7
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°	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3
2.5°	4452.2	4530.6	4641.4	4811.9	4950.2	5168.0	5334.9	5562.7	5793.1	5862.8	5971.1
5°	3276.9	3377.7	3629.3	3858.3	4002.7	4463.4	4754.7	5214.1	5626.2	5824.2	6039.6
7.5°	2275.9	2395.4	2587.2	2907.1	3210.9	3585.6	4056.2	4581.7	5185.5	5468.1	5771.9
10°	1597.3	1746.8	2016.9	2279.6	2661.8	3017.9	3482.3	4062.5	4728.5	5062.2	5443.2
12.5°	1008.4	1141.7	1499.0	1794.1	2270.9	2684.2	3112.5	3637.9	4409.9	4752.2	5151.9
15°	576.4	688.5	855.3	1233.8	1762.9	2309.5	2843.6	3453.7	4246.7	4668.8	5100.8
17.5°	429.5	459.4	534.1	748.2	1230.0	1868.8	2595.8	3397.6	4357.6	4853.1	5346.1
20°	361.0	381.0	415.9	500.5	784.4	1439.2	2354.3	3407.6	4716.1	5338.6	5806.8
22.5°	323.7	336.1	364.8	419.6	535.4	1048.3	2071.7	3466.1	5150.6	5935.0	6475.3
25°	283.8	300.1	325.0	372.2	445.7	727.1	1792.8	3596.9	5759.4	6691.9	7199.9
27.5°	252.7	267.7	292.6	336.1	390.9	555.3	1467.9	3708.9	6401.9	7453.9	7869.7
30°	221.6	236.6	261.5	296.3	346.2	449.4	1118.0	3774.9	7025.6	8025.3	8345.3
32.5°	195.4	207.9	231.6	262.7	303.8	381.0	881.5	3706.4	7502.5	8544.6	8758.7
35°	169.3	184.3	204.2	232.8	269.0	325.0	733.4	3469.9	7912.0	9078.7	9155.8
37.5°	142.0	159.4	180.6	206.6	235.3	298.8	588.9	3208.4	8350.3	9744.8	9617.8
40°	119.5	135.7	155.6	184.3	210.4	273.9	453.2	2929.5	8823.4	10369.7	10121.9
42.5°	97.1	114.5	138.2	164.3	207.9	239.0	351.1	2640.7	9248.0	10913.8	10577.7
45°	77.2	92.1	117.1	150.6	206.6	205.5	271.4	2355.6	9568.0	11302.2	10917.5
47.5°	61.0	73.4	98.4	146.9	190.5	174.3	217.9	2178.8	9904.1	11652.1	11177.7
50°	48.5	61.0	84.7	153.1	166.9	149.4	183.0	2207.4	10229.0	11830.1	11284.8
52.5°	41.1	53.6	73.4	120.8	128.3	130.7	160.6	2339.4	10648.6	12020.6	11497.7
55°	36.1	47.3	62.2	84.7	99.6	117.1	146.9	2435.3	11210.1	12429.0	11967.1
57.5°	28.6	41.1	56.0	72.2	82.2	102.1	135.7	2442.7	11718.1	12953.1	12590.9
59°	26.2	37.3	52.3	68.5	73.4	92.1	128.3	2379.2	11736.7	13031.5	12877.1
60°	23.6	36.1	49.8	63.5	69.7	87.1	122.0	2305.8	11567.5	12907.1	12995.5
62.5°	19.9	31.1	43.6	51.0	59.8	72.2	105.8	2039.3	10747.0	12343.1	12776.3
65°	17.4	27.4	37.3	42.3	49.8	62.2	93.4	1632.2	9840.6	11578.6	12148.8
67.5°	16.1	24.9	32.4	36.1	43.6	57.3	83.4	1152.8	8666.5	10608.8	11206.4
70°	15.0	23.6	28.6	33.6	38.6	48.5	71.0	672.3	6675.8	8908.0	9539.3
72.5°	15.0	22.4	24.9	28.6	33.6	43.6	66.0	363.6	4564.2	6795.3	7610.8
75°	15.0	21.2	22.4	24.9	29.9	39.9	58.5	190.5	2950.6	4721.1	5826.7
77.5°	15.0	19.9	22.4	23.6	28.6	34.9	51.0	119.5	1965.8	3306.7	3938.0
80°	16.1	19.9	21.2	23.6	27.4	32.4	42.3	79.6	1155.4	1989.6	2396.7
82.5°	17.4	19.9	22.4	24.9	28.6	31.1	37.3	49.8	532.9	1316.0	1489.1
85°	18.7	21.2	23.6	26.2	29.9	31.1	34.9	36.1	87.1	593.8	803.1
87.5°	19.9	22.4	24.9	27.4	32.4	32.4	32.4	32.4	29.9	63.5	161.9
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-SA6A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3	5413.3
2.5°	6108.0	6248.7	6347.1	6372.0	6301.0	6268.6	6179.0	6039.6	5954.9	5951.2
5°	6436.8	6766.7	6995.8	7034.3	6897.4	6665.8	6390.7	6035.9	5827.9	5765.6
7.5°	6380.7	6958.3	7326.9	7380.4	7150.1	6708.2	6175.3	5603.8	5377.2	5281.3
10°	6150.4	6855.1	7381.7	7466.3	7158.8	6536.3	5859.0	5221.6	4940.2	4866.8
12.5°	5953.7	6665.8	7134.0	7250.9	7018.1	6396.9	5669.8	4976.3	4675.0	4606.6
15°	5867.7	6441.7	6728.1	6787.8	6749.2	6309.8	5649.8	4938.9	4594.1	4519.4
17.5°	5953.7	6251.2	6287.3	6348.3	6434.2	6301.0	5841.6	5141.9	4769.6	4677.6
20°	6179.0	6085.6	5936.2	5962.4	6159.1	6337.1	6182.8	5591.4	5138.2	5039.8
22.5°	6562.5	6044.5	5705.9	5683.5	5932.5	6457.9	6683.3	6200.2	5674.7	5577.7
25°	7033.1	6147.9	5621.2	5572.7	5844.1	6634.6	7227.3	6945.9	6372.0	6223.8
27.5°	7546.0	6362.0	5621.2	5573.9	5836.6	6791.6	7693.0	7605.8	7094.1	6932.3
30°	7827.4	6538.8	5702.1	5648.7	5928.8	6882.4	7942.0	8192.2	7637.0	7436.5
32.5°	8078.9	6784.1	5860.3	5759.4	6121.7	7016.9	8164.8	8690.2	8069.0	7934.5
35°	8310.4	7046.7	6078.2	5961.1	6375.7	7201.1	8411.3	9213.1	8670.3	8467.4
37.5°	8565.7	7351.8	6418.0	6318.4	6800.2	7559.7	8703.9	9900.3	9261.7	9006.4
40°	8843.4	7705.4	6977.0	6934.7	7475.1	7965.6	9073.6	10633.7	9936.4	9646.4
42.5°	9125.9	8112.5	7661.8	7731.6	8239.5	8534.6	9453.4	11197.7	10489.2	10169.3
45°	9382.4	8632.9	8552.0	8896.9	9130.9	9089.9	9734.7	11594.8	10971.1	10664.8
47.5°	9706.1	9391.1	9628.9	10160.5	10166.8	9693.7	9947.7	11919.7	11385.6	11079.4
50°	10068.5	10286.3	11019.6	11561.2	11415.6	10287.5	10196.7	12304.5	11813.9	11568.6
52.5°	10488.0	11288.6	12304.5	12905.8	12565.9	10934.9	10611.2	12720.3	12493.7	12258.4
55°	10976.1	11972.1	13585.6	14064.9	13722.5	11739.3	11241.2	13284.3	13261.9	13101.3
57.5°	11527.6	12694.1	14327.6	14976.3	14671.2	12683.0	12121.4	13815.9	13731.3	13641.6
59°	11963.3	13065.2	14655.1	15327.4	15143.1	13344.1	12712.8	14147.1	13839.6	13705.1
60°	12227.3	13316.6	14775.9	15374.7	15332.4	13737.5	13087.6	14308.9	13838.3	13651.6
62.5°	13010.4	13756.2	14729.8	15164.2	15329.8	14491.9	14186.9	14487.0	13581.9	13308.0
65°	13289.3	13610.5	13966.6	13913.0	14055.0	14453.3	14889.1	14291.5	13034.1	12644.4
67.5°	12746.4	12013.1	12138.9	11781.6	11711.9	12849.8	14604.0	13335.3	11962.1	11485.3
70°	10744.4	9203.1	9139.7	9304.0	8853.3	10403.3	13113.7	11493.9	10192.9	9652.6
72.5°	8457.3	6504.0	5968.6	6573.7	6560.0	7936.9	10893.9	8156.1	6886.2	6840.1
75°	6650.9	4528.1	3974.1	4072.5	4261.7	5745.7	8676.5	5179.3	4240.5	3864.6
77.5°	4464.6	3208.4	2993.0	2872.3	3076.5	3689.0	5489.3	2808.8	2378.0	2252.2
80°	2573.5	2330.7	2646.9	2402.9	2512.4	2324.4	2730.3	1288.6	1069.5	1157.9
82.5°	1674.5	1327.2	1414.3	1050.8	1436.8	1449.2	876.5	381.0	322.4	342.4
85°	1047.0	622.5	349.9	249.0	495.5	911.4	273.9	23.6	27.4	23.6
87.5°	271.4	103.4	43.6	64.8	79.6	71.0	63.5	3.7	1.3	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)