

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: P651850

Luminaire Tested: **GALN-SA4A-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651850
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-SA4A-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 10926.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

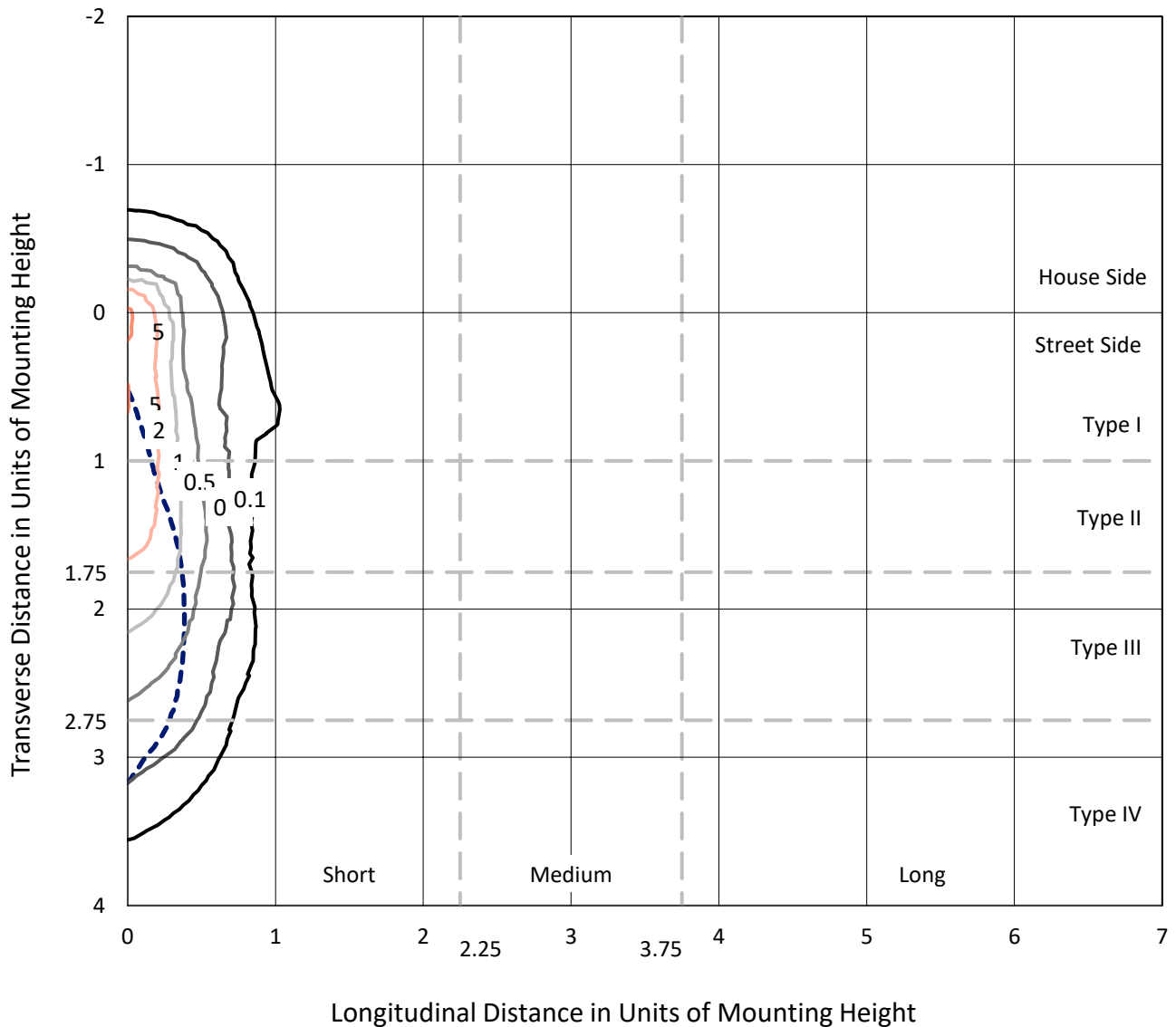
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

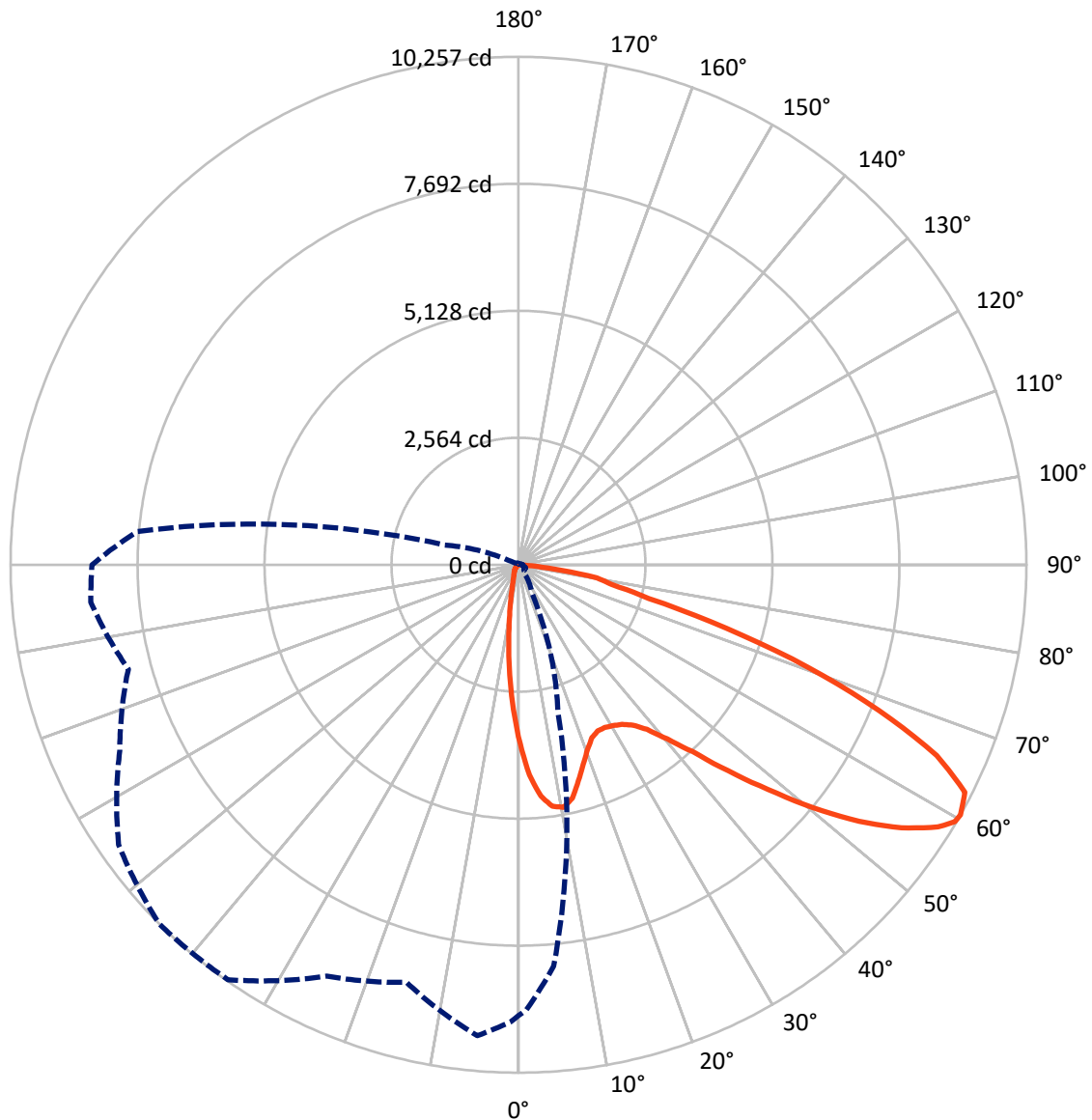
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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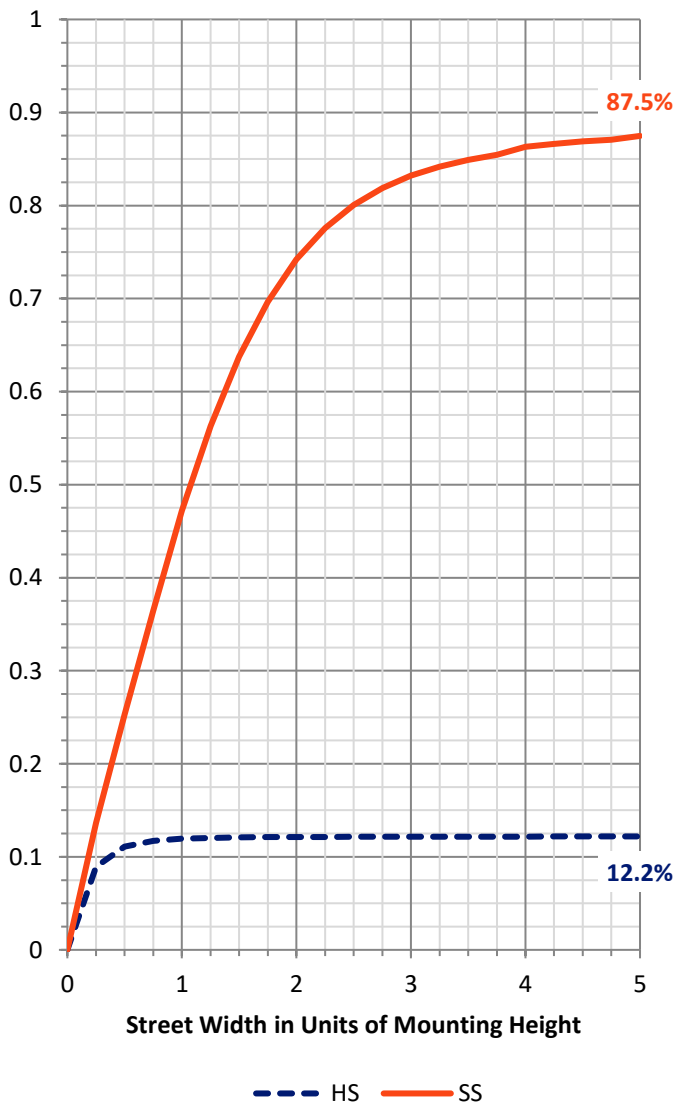
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.7	0.0	1347.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	9578.6	0.0	9578.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	10926.3	0.0	10926.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	2.5
10°-20°	533.4	4.9
20°-30°	782.2	7.2
30°-40°	1163.2	10.6
40°-50°	1692.8	15.5
50°-60°	2441.2	22.3
60°-70°	2685.0	24.6
70°-80°	1202.7	11.0
80°-90°	157.2	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°	10926.3	100.0
0°-180°	10926.3	100.0

Coefficient of Utilization



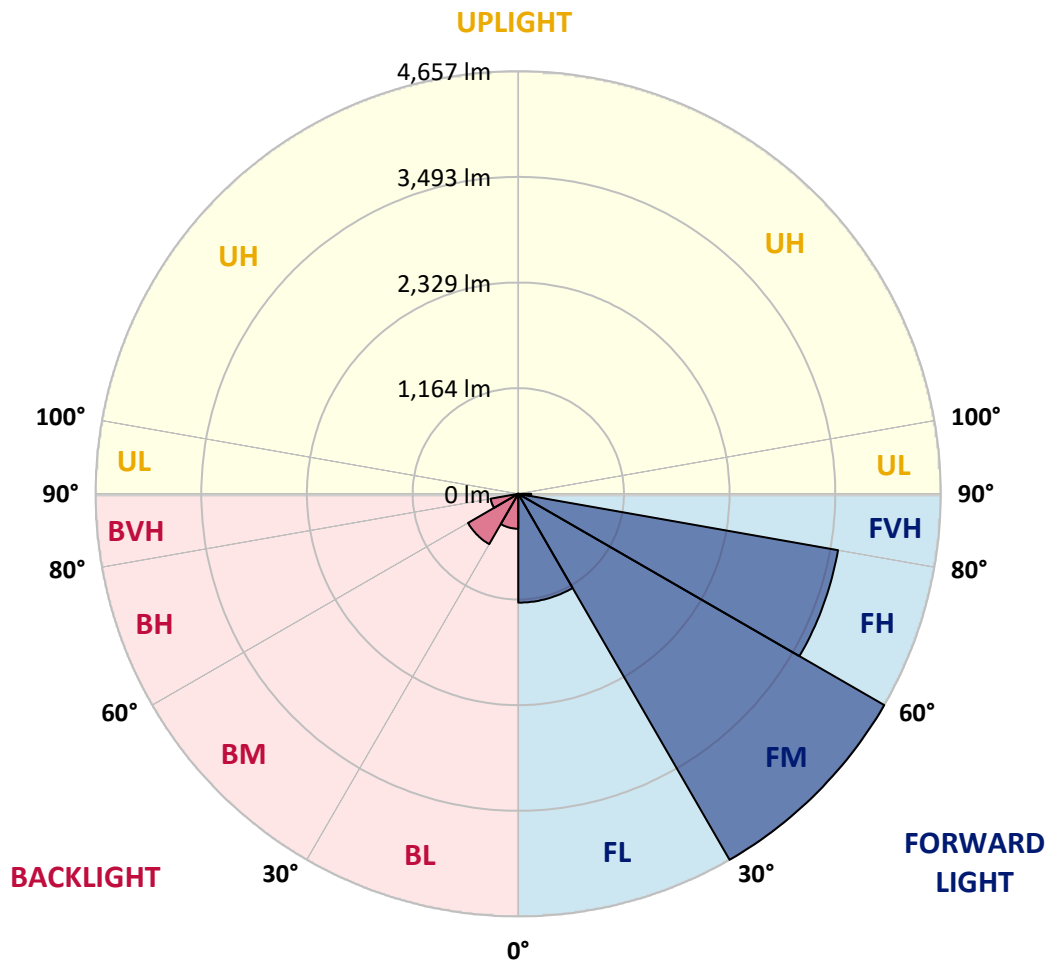
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.1	11.0			
FM (30°-60°)	4657.1	42.6			
FH (60°-80°)	3578.7	32.8			G2/5000
FVH (80°-90°)	143.7	1.3			G2/225
BL (0°-30°)	385.1	3.5	B1/500		
BM (30°-60°)	640.1	5.9	B1/1000		
BH (60°-80°)	309.1	2.8	B1/500		G1/500
BVH (80°-90°)	13.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3
2.5°	3970.1	3952.6	3912.8	3791.5	3686.0	3548.2	3408.7	3299.0	3231.7	3108.0	3051.5
5°	3846.3	3854.6	3739.2	3490.1	3212.6	3023.2	2816.4	2652.0	2470.9	2356.3	2235.9
7.5°	3523.3	3506.6	3381.2	3034.1	2696.8	2422.8	2161.1	1948.5	1814.8	1707.7	1617.9
10°	3246.7	3234.2	3073.9	2627.0	2265.0	2059.8	1882.9	1696.8	1553.2	1396.1	1270.8
12.5°	3073.1	3044.8	2860.5	2393.7	2098.8	1907.8	1715.1	1521.6	1323.1	1164.4	1012.5
15°	3015.0	2974.3	2769.1	2313.1	1992.5	1750.0	1508.3	1285.7	1057.3	882.0	767.4
17.5°	3120.4	3053.2	2834.7	2299.0	1865.4	1544.0	1246.7	956.8	719.3	585.6	514.9
20°	3362.1	3284.9	3000.9	2284.9	1724.2	1313.1	947.6	676.1	497.5	424.5	385.3
22.5°	3720.9	3614.6	3246.7	2307.3	1593.9	1088.0	684.4	477.6	395.4	349.7	322.3
25°	4152.0	4063.1	3558.1	2387.0	1490.8	911.1	529.1	390.4	333.0	304.8	284.1
27.5°	4624.6	4482.5	3960.9	2482.5	1397.0	774.1	464.3	348.8	296.5	270.8	260.0
30°	4961.0	4850.5	4298.2	2549.0	1279.9	671.1	424.5	343.9	297.4	266.6	246.7
32.5°	5293.2	5152.0	4580.6	2579.8	1194.4	599.6	367.1	299.8	260.8	245.0	225.1
35°	5648.7	5500.8	4862.2	2563.1	1130.4	552.3	333.0	267.4	223.5	196.9	176.9
37.5°	6008.3	5852.2	5142.0	2503.3	1090.5	533.2	306.5	254.2	210.9	183.6	162.0
40°	6435.2	6226.8	5404.4	2454.3	1049.0	523.3	289.1	245.8	201.8	172.7	151.1
42.5°	6784.0	6585.5	5652.8	2428.6	1020.7	500.0	289.1	239.2	196.0	163.7	141.2
45°	7114.6	6908.6	5921.1	2449.3	1009.1	471.0	292.3	238.3	191.8	157.0	134.6
47.5°	7391.2	7212.6	6196.8	2527.4	994.1	439.3	274.9	250.0	189.4	151.1	127.9
50°	7717.6	7544.9	6561.5	2685.2	967.6	407.8	253.3	269.1	188.6	146.2	122.1
52.5°	8177.7	7990.8	7064.7	2864.6	925.3	359.6	233.4	266.6	185.2	137.8	116.3
55°	8740.0	8588.9	7647.8	3079.7	867.1	305.6	201.8	236.7	175.3	123.8	106.3
57.5°	9100.5	8971.7	8084.7	3172.8	778.3	250.0	177.7	198.5	160.3	110.4	94.7
59°	9142.8	9026.5	8176.0	3142.1	720.1	228.4	166.1	170.3	156.2	103.0	88.1
60°	9107.1	8986.7	8139.5	3082.2	666.1	213.4	156.2	151.1	157.0	98.8	83.1
62.5°	8877.9	8671.9	7784.9	2779.1	582.2	196.0	138.7	123.8	138.7	88.9	73.9
65°	8435.2	8126.2	7083.1	2352.2	549.0	186.0	117.9	103.8	105.5	78.0	63.9
67.5°	7661.9	7272.4	6148.6	1911.1	534.9	186.9	99.7	93.0	81.4	66.4	56.5
70°	6439.4	6050.7	4933.6	1572.2	528.2	186.9	84.7	79.7	68.1	55.7	49.0
72.5°	4563.1	4144.5	3328.1	1235.0	475.9	186.0	72.2	72.2	55.7	46.5	39.9
75°	2578.1	2581.4	2092.2	873.7	395.4	153.7	58.1	57.3	40.7	35.7	29.9
77.5°	1502.5	1475.9	1410.3	375.4	183.6	69.8	40.7	34.9	28.3	25.7	21.6
80°	772.5	635.4	618.8	136.2	65.6	44.0	28.3	19.9	18.2	16.7	15.0
82.5°	228.4	229.3	204.3	54.8	36.6	29.1	14.1	10.8	10.0	9.2	9.2
85°	15.8	10.0	11.6	16.7	22.5	11.6	0.8	2.5	2.5	3.4	4.1
87.5°	1.7	0.8	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°	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3
2.5°	2989.2	3025.7	2957.6	2959.3	2902.8	2921.1	2854.6	2876.2	2837.2	2867.1	2955.1
5°	2249.2	2257.5	2202.7	2185.2	2193.5	2227.6	2240.8	2180.2	2205.9	2155.3	2152.0
7.5°	1584.7	1594.7	1563.1	1559.0	1618.8	1604.6	1630.4	1568.1	1509.2	1534.9	1487.6
10°	1230.9	1189.3	1124.6	1106.3	1094.6	1102.1	1102.1	1045.7	1037.4	1014.9	1049.0
12.5°	971.8	921.1	859.7	776.6	755.8	754.1	723.4	673.6	657.8	638.7	666.9
15°	706.0	685.2	633.7	587.2	539.8	530.8	480.9	440.2	386.2	378.7	376.3
17.5°	496.7	465.9	465.2	438.5	411.2	392.8	346.3	299.8	279.0	276.6	276.6
20°	372.1	361.3	343.9	340.5	332.2	311.4	270.0	245.0	235.1	235.9	239.2
22.5°	313.1	305.6	289.9	282.4	279.0	260.8	230.1	213.4	208.5	208.5	209.3
25°	279.9	273.2	255.8	244.2	240.0	226.7	202.7	190.2	186.0	186.0	186.0
27.5°	255.0	246.7	228.4	218.4	210.9	196.0	181.1	168.6	164.4	164.4	165.3
30°	237.6	228.4	211.8	198.5	186.9	173.6	161.1	150.4	145.3	144.5	145.3
32.5°	214.3	206.0	189.4	181.1	167.8	152.0	142.0	132.0	127.1	127.9	127.1
35°	166.9	164.4	152.8	155.3	147.8	134.6	125.4	114.6	108.8	108.0	109.7
37.5°	152.0	142.0	128.8	129.6	127.1	122.1	107.1	95.5	91.3	91.3	92.2
40°	140.4	130.4	115.5	108.0	108.8	108.8	93.0	80.6	76.4	75.6	77.2
42.5°	130.4	120.4	103.8	91.3	88.1	92.2	78.9	66.4	62.3	60.6	62.3
45°	123.8	112.9	93.9	79.7	69.8	74.8	64.8	54.8	49.9	49.9	49.0
47.5°	117.2	107.1	86.4	69.0	58.1	55.7	53.2	44.0	39.0	38.2	39.0
50°	111.3	101.3	78.0	59.8	49.0	43.2	43.2	34.9	31.5	29.9	30.7
52.5°	105.5	94.7	70.6	53.2	42.4	34.9	30.7	28.3	25.7	24.9	25.7
55°	97.1	86.4	63.2	45.7	36.6	29.1	24.1	23.3	21.6	19.9	21.6
57.5°	87.2	77.2	55.7	39.0	29.1	22.5	19.9	19.1	17.4	16.7	16.7
59°	81.4	72.2	51.5	34.1	25.7	19.9	18.2	17.4	15.8	14.1	15.0
60°	78.0	70.6	49.0	31.5	23.3	18.2	16.7	15.8	14.1	13.3	14.1
62.5°	69.0	63.2	43.2	25.7	18.2	13.3	11.6	12.4	11.6	10.8	11.6
65°	60.6	55.7	36.6	19.9	14.1	9.2	8.3	10.8	10.0	9.2	10.0
67.5°	54.0	48.2	30.7	15.0	10.0	5.0	5.8	9.2	9.2	8.3	9.2
70°	46.5	41.5	24.9	10.8	5.0	2.5	4.1	6.6	8.3	7.5	8.3
72.5°	38.2	32.4	19.1	7.5	2.5	0.0	2.5	5.8	8.3	7.5	8.3
75°	29.9	24.1	14.1	4.1	0.0	0.0	0.8	5.0	8.3	7.5	8.3
77.5°	21.6	17.4	8.3	0.8	0.0	0.0	0.8	5.0	8.3	7.5	8.3
80°	14.1	12.4	3.4	0.0	0.0	0.0	0.8	5.0	8.3	8.3	9.2
82.5°	9.2	6.6	0.0	0.0	0.0	0.0	1.7	6.6	9.2	10.0	10.0
85°	4.1	0.0	0.0	0.0	0.0	0.0	3.4	8.3	10.8	10.8	10.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.8	10.0	12.4	12.4	12.4
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3
2.5°	2970.1	3022.4	3096.3	3210.1	3302.4	3447.7	3558.9	3711.0	3864.6	3911.2	3983.4
5°	2186.0	2253.3	2421.1	2573.9	2670.3	2977.6	3171.9	3478.4	3753.3	3885.3	4029.1
7.5°	1518.3	1598.0	1725.9	1939.3	2142.0	2392.1	2706.0	3056.4	3459.3	3647.8	3850.5
10°	1065.6	1165.3	1345.5	1520.8	1775.8	2013.3	2323.1	2710.1	3154.5	3377.0	3631.2
12.5°	672.7	761.6	1000.0	1196.8	1515.0	1790.7	2076.4	2426.9	2941.8	3170.2	3436.8
15°	384.6	459.3	570.6	823.1	1176.1	1540.7	1897.0	2304.0	2833.1	3114.6	3402.9
17.5°	286.5	306.5	356.3	499.1	820.6	1246.7	1731.7	2266.6	2907.0	3237.5	3566.4
20°	240.9	254.2	277.4	333.9	523.3	960.2	1570.6	2273.2	3146.2	3561.5	3873.7
22.5°	216.0	224.2	243.4	279.9	357.2	699.4	1382.0	2312.3	3436.1	3959.3	4319.8
25°	189.4	200.2	216.8	248.3	297.4	485.1	1196.0	2399.5	3842.2	4464.3	4803.1
27.5°	168.6	178.5	195.2	224.2	260.8	370.5	979.3	2474.2	4270.8	4972.6	5250.0
30°	147.8	157.8	174.4	197.6	230.9	299.8	745.9	2518.3	4686.9	5353.8	5567.3
32.5°	130.4	138.7	154.5	175.3	202.7	254.2	588.0	2472.6	5005.0	5700.1	5843.0
35°	112.9	123.0	136.2	155.3	179.4	216.8	489.2	2314.8	5278.2	6056.5	6107.9
37.5°	94.7	106.3	120.4	137.8	157.0	199.3	392.8	2140.3	5570.6	6500.8	6416.1
40°	79.7	90.5	103.8	123.0	140.4	182.7	302.3	1954.3	5886.2	6917.7	6752.5
42.5°	64.8	76.4	92.2	109.7	138.7	159.5	234.2	1761.6	6169.4	7280.7	7056.5
45°	51.5	61.5	78.0	100.5	137.8	137.1	181.1	1571.4	6382.9	7539.8	7283.2
47.5°	40.7	49.0	65.6	98.0	127.1	116.3	145.3	1453.5	6607.1	7773.3	7456.8
50°	32.4	40.7	56.5	102.2	111.3	99.7	122.1	1472.6	6823.9	7892.0	7528.2
52.5°	27.4	35.7	49.0	80.6	85.5	87.2	107.1	1560.6	7103.8	8019.1	7670.3
55°	24.1	31.5	41.5	56.5	66.4	78.0	98.0	1624.6	7478.4	8291.5	7983.4
57.5°	19.1	27.4	37.3	48.2	54.8	68.1	90.5	1629.6	7817.3	8641.2	8399.5
59°	17.4	24.9	34.9	45.7	49.0	61.5	85.5	1587.2	7829.7	8693.5	8590.5
60°	15.8	24.1	33.2	42.4	46.5	58.1	81.4	1538.2	7716.8	8610.4	8669.4
62.5°	13.3	20.8	29.1	34.1	39.9	48.2	70.6	1360.5	7169.4	8234.2	8523.2
65°	11.6	18.2	24.9	28.3	33.2	41.5	62.3	1088.8	6564.8	7724.2	8104.6
67.5°	10.8	16.7	21.6	24.1	29.1	38.2	55.7	769.1	5781.5	7077.3	7475.9
70°	10.0	15.8	19.1	22.5	25.7	32.4	47.3	448.5	4453.5	5942.7	6363.8
72.5°	10.0	15.0	16.7	19.1	22.5	29.1	44.0	242.5	3044.8	4533.2	5077.2
75°	10.0	14.1	15.0	16.7	19.9	26.6	39.0	127.1	1968.4	3149.5	3887.0
77.5°	10.0	13.3	15.0	15.8	19.1	23.3	34.1	79.7	1311.5	2205.9	2627.0
80°	10.8	13.3	14.1	15.8	18.2	21.6	28.3	53.2	770.8	1327.3	1598.8
82.5°	11.6	13.3	15.0	16.7	19.1	20.8	24.9	33.2	355.5	877.9	993.4
85°	12.4	14.1	15.8	17.4	19.9	20.8	23.3	24.1	58.1	396.2	535.7
87.5°	13.3	15.0	16.7	18.2	21.6	21.6	21.6	21.6	19.9	42.4	108.0
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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CATALOG NUMBER: GALN-SA4A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3	3611.3
2.5°	4074.7	4168.6	4234.2	4250.8	4203.5	4181.9	4122.1	4029.1	3972.5	3970.1
5°	4294.0	4514.2	4667.0	4692.7	4601.3	4446.9	4263.3	4026.5	3887.9	3846.3
7.5°	4256.6	4642.0	4887.9	4923.6	4769.9	4475.0	4119.6	3738.3	3587.2	3523.3
10°	4103.0	4573.1	4924.4	4980.9	4775.7	4360.4	3908.6	3483.4	3295.7	3246.7
12.5°	3971.8	4446.9	4759.1	4837.2	4681.8	4267.4	3782.4	3319.8	3118.8	3073.1
15°	3914.4	4297.3	4488.3	4528.2	4502.5	4209.3	3769.1	3294.9	3064.8	3015.0
17.5°	3971.8	4170.3	4194.3	4235.0	4292.4	4203.5	3897.0	3430.2	3181.9	3120.4
20°	4122.1	4059.8	3960.1	3977.6	4108.8	4227.5	4124.6	3730.1	3427.7	3362.1
22.5°	4377.9	4032.3	3806.5	3791.5	3957.7	4308.1	4458.5	4136.2	3785.7	3720.9
25°	4691.9	4101.3	3750.0	3717.6	3898.6	4426.1	4821.5	4633.7	4250.8	4152.0
27.5°	5034.1	4244.2	3750.0	3718.4	3893.7	4530.7	5132.0	5073.9	4732.6	4624.6
30°	5221.8	4362.1	3804.0	3768.3	3955.1	4591.4	5298.1	5465.1	5094.7	4961.0
32.5°	5389.5	4525.8	3909.5	3842.2	4083.9	4681.1	5446.8	5797.3	5382.9	5293.2
35°	5544.0	4701.0	4054.8	3976.8	4253.3	4804.0	5611.3	6146.2	5784.1	5648.7
37.5°	5714.3	4904.5	4281.5	4215.1	4536.5	5043.1	5806.4	6604.6	6178.6	6008.3
40°	5899.5	5140.4	4654.5	4626.3	4986.7	5313.9	6053.2	7093.8	6628.8	6435.2
42.5°	6088.0	5411.9	5111.3	5157.8	5496.7	5693.5	6306.5	7470.1	6997.5	6784.0
45°	6259.1	5759.1	5705.2	5935.2	6091.4	6063.9	6494.2	7735.0	7318.9	7114.6
47.5°	6475.1	6264.9	6423.6	6778.2	6782.4	6466.8	6636.2	7951.8	7595.5	7391.2
50°	6716.7	6862.1	7351.3	7712.6	7615.4	6863.0	6802.3	8208.5	7881.2	7717.6
52.5°	6996.7	7530.7	8208.5	8609.7	8382.8	7294.8	7078.9	8485.9	8334.7	8177.7
55°	7322.3	7986.7	9063.1	9382.9	9154.5	7831.4	7499.2	8862.1	8847.2	8740.0
57.5°	7690.2	8468.4	9558.1	9990.8	9787.4	8461.0	8086.4	9216.8	9160.3	9100.5
59°	7980.9	8716.0	9776.5	10225.0	10102.2	8902.0	8480.9	9437.7	9232.6	9142.8
60°	8156.9	8883.7	9857.1	10256.6	10228.4	9164.5	8730.8	9545.7	9231.7	9107.1
62.5°	8679.4	9176.9	9826.4	10116.2	10226.7	9667.7	9464.3	9664.4	9060.6	8877.9
65°	8865.4	9079.7	9317.3	9281.5	9376.2	9642.0	9932.7	9534.0	8695.2	8435.2
67.5°	8503.3	8014.1	8098.0	7859.6	7813.1	8572.2	9742.5	8896.2	7980.1	7661.9
70°	7167.8	6139.6	6097.2	6206.8	5906.2	6940.2	8748.3	7667.7	6799.8	6439.4
72.5°	5642.0	4338.9	3981.7	4385.4	4376.2	5294.9	7267.4	5441.0	4593.9	4563.1
75°	4436.9	3020.8	2651.2	2716.8	2843.0	3833.0	5788.2	3455.2	2828.9	2578.1
77.5°	2978.4	2140.3	1996.7	1916.1	2052.3	2460.9	3662.0	1873.7	1586.4	1502.5
80°	1716.7	1554.8	1765.8	1602.9	1676.1	1550.6	1821.4	859.7	713.4	772.5
82.5°	1117.1	885.4	943.5	701.0	958.5	966.8	584.7	254.2	215.1	228.4
85°	698.5	415.3	233.4	166.1	330.6	608.0	182.7	15.8	18.2	15.8
87.5°	181.1	69.0	29.1	43.2	53.2	47.3	42.4	2.5	0.8	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)