

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: P452988

Luminaire Tested: **GALN-SA4A-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452988
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 10865 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: B1 - U0 - G2

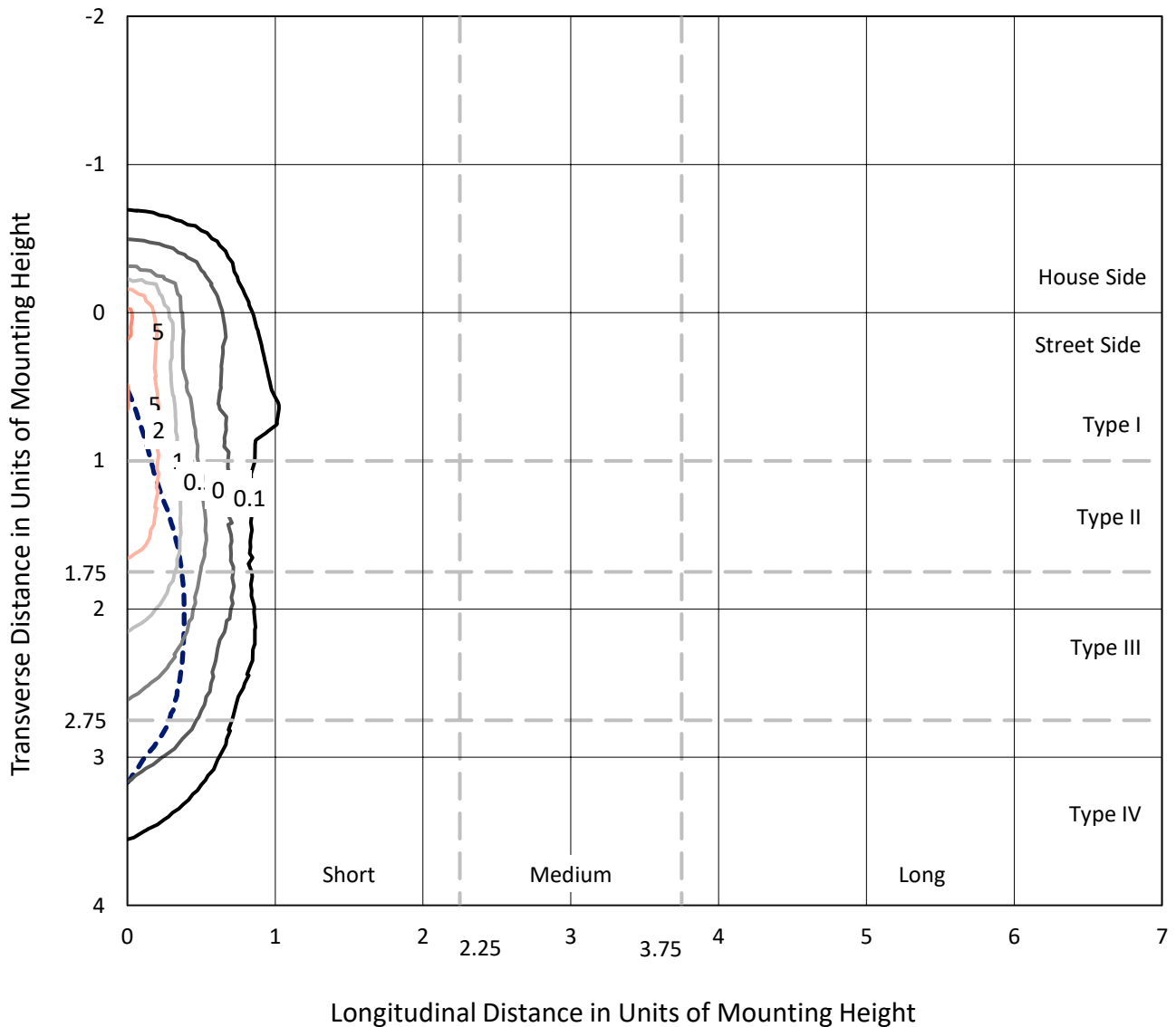
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

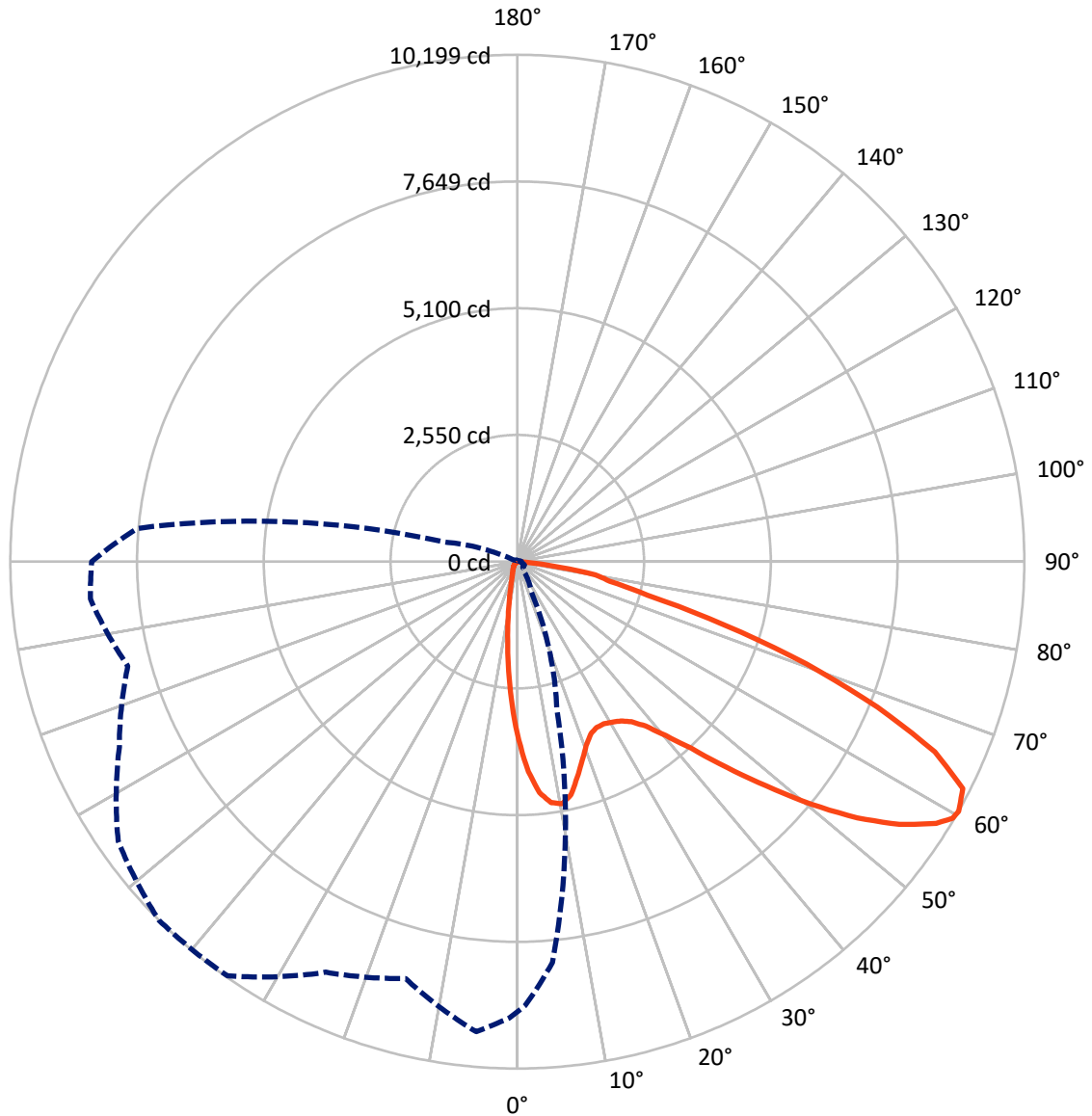
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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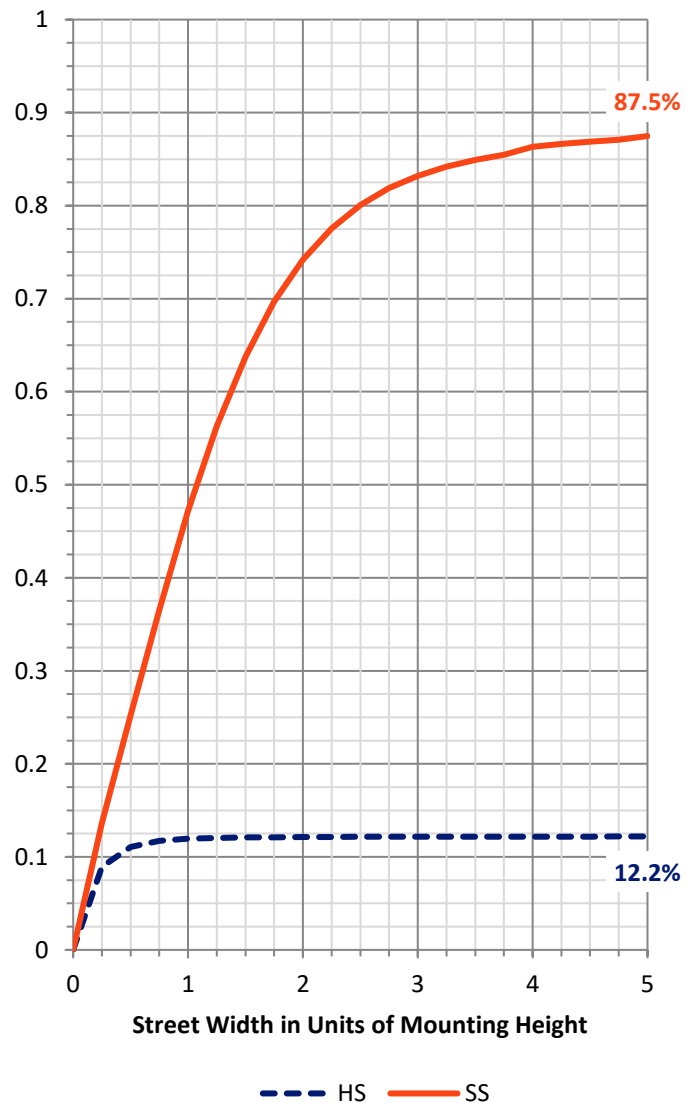
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1340.1	0.0	1340.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	9524.9	0.0	9524.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	10865.0	0.0	10865.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	2.5
10°-20°	530.4	4.9
20°-30°	777.8	7.2
30°-40°	1156.7	10.6
40°-50°	1683.3	15.5
50°-60°	2427.5	22.3
60°-70°	2670.0	24.6
70°-80°	1195.9	11.0
80°-90°	156.3	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°	10865.0	100.0
0°-180°	10865.0	100.0



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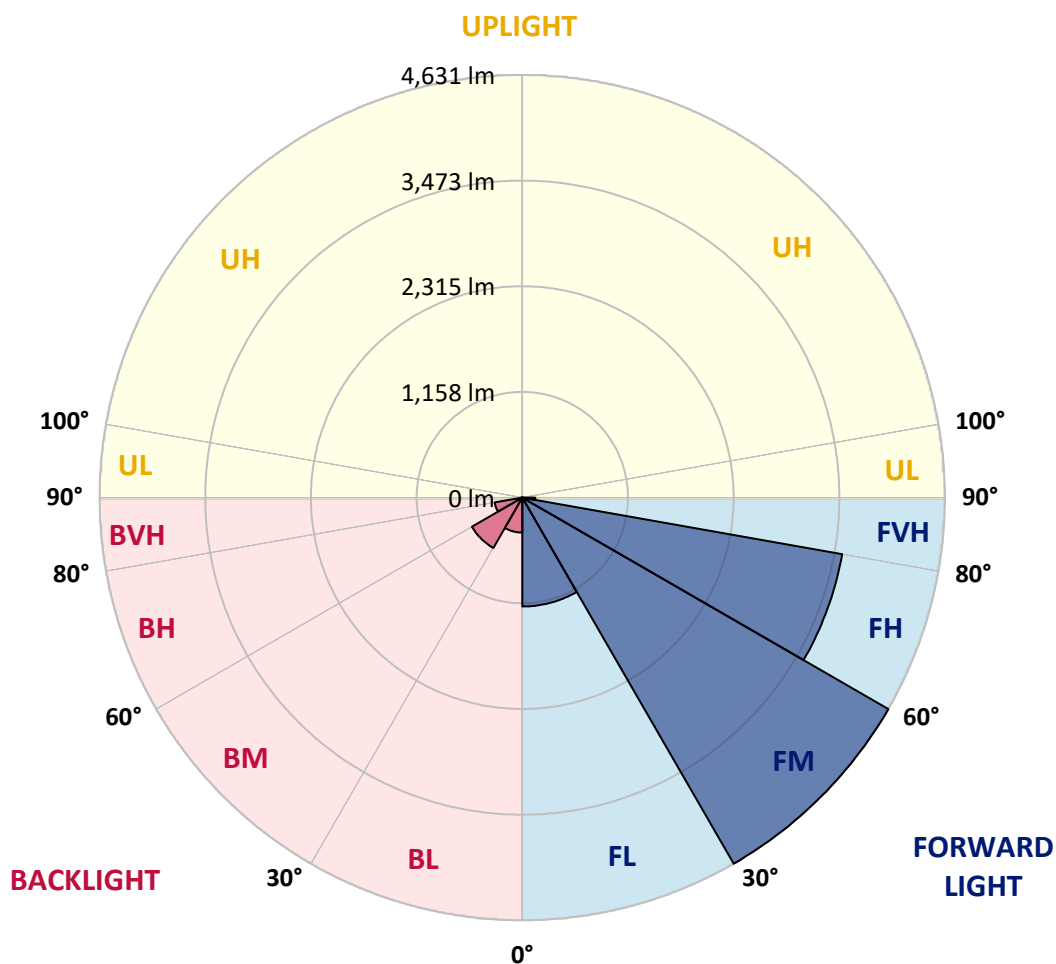
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.4	11.0			
FM (30°-60°)	4631.0	42.6			
FH (60°-80°)	3558.6	32.8			G2/5000
FVH (80°-90°)	142.9	1.3			G2/225
BL (0°-30°)	382.9	3.5	B1/500		
BM (30°-60°)	636.5	5.9	B1/1000		
BH (60°-80°)	307.3	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°	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0
2.5°	3947.8	3930.5	3890.8	3770.3	3665.4	3528.3	3389.5	3280.5	3213.6	3090.5	3034.4
5°	3824.8	3833.0	3718.2	3470.5	3194.6	3006.3	2800.6	2637.1	2457.1	2343.1	2223.3
7.5°	3503.5	3487.0	3362.3	3017.0	2681.7	2409.2	2149.0	1937.6	1804.6	1698.1	1608.9
10°	3228.5	3216.1	3056.7	2612.3	2252.2	2048.2	1872.3	1687.3	1544.4	1388.3	1263.6
12.5°	3055.9	3027.8	2844.4	2380.3	2087.1	1897.1	1705.5	1513.1	1315.7	1157.9	1006.8
15°	2998.0	2957.6	2753.6	2300.1	1981.3	1740.2	1499.8	1278.5	1051.4	877.1	763.1
17.5°	3102.9	3036.0	2818.8	2286.1	1855.0	1535.4	1239.7	951.4	715.2	582.3	512.1
20°	3343.3	3266.5	2984.0	2272.1	1714.6	1305.8	942.4	672.3	494.7	422.0	383.2
22.5°	3700.1	3594.3	3228.5	2294.4	1584.9	1081.9	680.5	474.9	393.1	347.7	320.5
25°	4128.7	4040.3	3538.2	2373.7	1482.5	906.0	526.1	388.2	331.2	303.1	282.5
27.5°	4598.6	4457.4	3938.7	2468.6	1389.2	769.7	461.7	346.9	294.8	269.2	258.5
30°	4933.1	4823.3	4274.1	2534.7	1272.7	667.3	422.0	341.9	295.7	265.1	245.3
32.5°	5263.5	5123.1	4554.9	2565.3	1187.7	596.3	365.1	298.2	259.3	243.6	223.8
35°	5617.0	5470.0	4834.9	2548.7	1124.1	549.2	331.2	265.9	222.2	195.7	175.9
37.5°	5974.6	5819.3	5113.2	2489.3	1084.4	530.2	304.8	252.7	209.8	182.5	161.1
40°	6399.1	6191.8	5374.2	2440.6	1043.1	520.3	287.4	244.5	200.7	171.8	150.3
42.5°	6746.0	6548.6	5621.1	2414.9	1015.0	497.2	287.4	237.9	194.9	162.7	140.4
45°	7074.7	6869.9	5887.9	2435.6	1003.5	468.3	290.7	237.0	190.8	156.1	133.8
47.5°	7349.7	7172.2	6162.1	2513.2	988.6	436.9	273.4	248.6	188.3	150.3	127.2
50°	7674.3	7502.5	6524.7	2670.2	962.2	405.5	251.9	267.6	187.5	145.4	121.4
52.5°	8131.9	7946.0	7025.2	2848.5	920.1	357.6	232.1	265.1	184.2	137.1	115.6
55°	8691.0	8540.7	7604.9	3062.5	862.2	303.9	200.7	235.4	174.3	123.1	105.7
57.5°	9049.4	8921.4	8039.4	3155.0	773.9	248.6	176.7	197.4	159.4	109.8	94.2
59°	9091.6	8975.9	8130.2	3124.4	716.1	227.1	165.2	169.3	155.3	102.4	87.5
60°	9056.1	8936.3	8093.9	3064.9	662.4	212.3	155.3	150.3	156.1	98.3	82.6
62.5°	8828.1	8623.3	7741.2	2763.5	579.0	194.9	137.9	123.1	137.9	88.4	73.5
65°	8387.9	8080.7	7043.3	2339.0	545.9	185.0	117.3	103.2	104.9	77.6	63.6
67.5°	7619.0	7231.6	6114.2	1900.4	531.9	185.8	99.1	92.5	80.9	66.1	56.2
70°	6403.2	6016.7	4905.9	1563.4	525.3	185.8	84.2	79.3	67.7	55.3	48.7
72.5°	4537.5	4121.3	3309.4	1228.1	473.2	185.0	71.9	71.9	55.3	46.3	39.6
75°	2563.6	2566.9	2080.5	868.9	393.1	152.8	57.8	57.0	40.5	35.5	29.7
77.5°	1494.1	1467.6	1402.4	373.3	182.5	69.4	40.5	34.7	28.1	25.6	21.5
80°	768.1	631.8	615.3	135.4	65.2	43.8	28.1	19.8	18.2	16.5	14.9
82.5°	227.1	227.9	203.2	54.5	36.3	28.9	14.0	10.7	9.9	9.1	9.1
85°	15.7	9.9	11.6	16.5	22.3	11.6	0.8	2.5	2.5	3.3	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°	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0
2.5°	2972.4	3008.8	2941.1	2942.7	2886.5	2904.7	2838.6	2860.1	2821.3	2851.0	2938.6
5°	2236.6	2244.8	2190.3	2173.0	2181.2	2215.1	2228.3	2168.0	2193.6	2143.2	2139.9
7.5°	1575.8	1585.7	1554.4	1550.2	1609.7	1595.6	1621.3	1559.3	1500.7	1526.3	1479.2
10°	1224.0	1182.7	1118.3	1100.1	1088.5	1096.0	1096.0	1039.8	1031.6	1009.3	1043.1
12.5°	966.3	915.9	854.8	772.2	751.6	749.9	719.4	669.8	654.1	635.1	663.2
15°	702.0	681.4	630.2	583.9	536.8	527.8	478.2	437.7	384.0	376.6	374.1
17.5°	493.9	463.3	462.5	436.1	408.8	390.7	344.4	298.2	277.5	275.0	275.0
20°	370.0	359.3	341.9	338.6	330.4	309.7	268.4	243.6	233.7	234.6	237.9
22.5°	311.4	303.9	288.2	280.8	277.5	259.3	228.8	212.3	207.3	207.3	208.1
25°	278.3	271.7	254.4	242.8	238.7	225.5	201.5	189.1	185.0	185.0	185.0
27.5°	253.6	245.3	227.1	217.2	209.8	194.9	180.0	167.7	163.5	163.5	164.4
30°	236.2	227.1	210.6	197.4	185.8	172.6	160.2	149.5	144.5	143.7	144.5
32.5°	213.1	204.8	188.3	180.0	166.8	151.1	141.2	131.3	126.4	127.2	126.4
35°	166.0	163.5	152.0	154.4	147.0	133.8	124.7	114.0	108.2	107.4	109.0
37.5°	151.1	141.2	128.0	128.8	126.4	121.4	106.5	95.0	90.8	90.8	91.7
40°	139.6	129.7	114.8	107.4	108.2	108.2	92.5	80.1	76.0	75.2	76.8
42.5°	129.7	119.8	103.2	90.8	87.5	91.7	78.5	66.1	61.9	60.3	61.9
45°	123.1	112.3	93.3	79.3	69.4	74.3	64.4	54.5	49.6	49.6	48.7
47.5°	116.5	106.5	85.9	68.6	57.8	55.3	52.9	43.8	38.8	38.0	38.8
50°	110.7	100.8	77.6	59.5	48.7	42.9	42.9	34.7	31.4	29.7	30.6
52.5°	104.9	94.2	70.2	52.9	42.1	34.7	30.6	28.1	25.6	24.8	25.6
55°	96.6	85.9	62.8	45.4	36.3	28.9	24.0	23.1	21.5	19.8	21.5
57.5°	86.7	76.8	55.3	38.8	28.9	22.3	19.8	19.0	17.3	16.5	16.5
59°	80.9	71.9	51.2	33.9	25.6	19.8	18.2	17.3	15.7	14.0	14.9
60°	77.6	70.2	48.7	31.4	23.1	18.2	16.5	15.7	14.0	13.2	14.0
62.5°	68.6	62.8	42.9	25.6	18.2	13.2	11.6	12.4	11.6	10.7	11.6
65°	60.3	55.3	36.3	19.8	14.0	9.1	8.3	10.7	9.9	9.1	9.9
67.5°	53.7	47.9	30.6	14.9	9.9	5.0	5.8	9.1	9.1	8.3	9.1
70°	46.3	41.3	24.8	10.7	5.0	2.5	4.1	6.6	8.3	7.4	8.3
72.5°	38.0	32.2	19.0	7.4	2.5	0.0	2.5	5.8	8.3	7.4	8.3
75°	29.7	24.0	14.0	4.1	0.0	0.0	0.8	5.0	8.3	7.4	8.3
77.5°	21.5	17.3	8.3	0.8	0.0	0.0	0.8	5.0	8.3	7.4	8.3
80°	14.0	12.4	3.3	0.0	0.0	0.0	0.8	5.0	8.3	8.3	9.1
82.5°	9.1	6.6	0.0	0.0	0.0	0.0	1.7	6.6	9.1	9.9	9.9
85°	4.1	0.0	0.0	0.0	0.0	0.0	3.3	8.3	10.7	10.7	10.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.8	9.9	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°	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0
2.5°	2953.4	3005.5	3079.0	3192.1	3283.8	3428.3	3539.0	3690.1	3842.9	3889.2	3961.0
5°	2173.8	2240.7	2407.5	2559.5	2655.3	2960.9	3154.1	3458.9	3732.3	3863.6	4006.5
7.5°	1509.8	1589.0	1716.2	1928.5	2130.0	2378.6	2690.8	3039.3	3439.9	3627.4	3828.9
10°	1059.6	1158.7	1338.0	1512.2	1765.8	2002.0	2310.1	2694.9	3136.8	3358.1	3610.9
12.5°	669.0	757.4	994.4	1190.1	1506.5	1780.7	2064.8	2413.3	2925.4	3152.5	3417.6
15°	382.4	456.7	567.4	818.5	1169.5	1532.1	1886.4	2291.1	2817.2	3097.1	3383.7
17.5°	284.9	304.8	354.3	496.4	816.0	1239.7	1722.0	2253.9	2890.7	3219.4	3546.4
20°	239.5	252.7	275.9	332.0	520.3	954.7	1561.8	2260.5	3128.5	3541.5	3852.0
22.5°	214.7	223.0	242.0	278.3	355.1	695.4	1374.3	2299.3	3416.8	3937.1	4295.5
25°	188.3	199.0	215.6	246.9	295.7	482.3	1189.3	2386.0	3820.6	4439.2	4776.2
27.5°	167.7	177.6	194.1	223.0	259.3	368.4	973.7	2460.4	4246.8	4944.7	5220.5
30°	147.0	156.9	173.4	196.6	229.6	298.2	741.7	2504.1	4660.6	5323.8	5536.0
32.5°	129.7	137.9	153.6	174.3	201.5	252.7	584.7	2458.7	4976.9	5668.2	5810.2
35°	112.3	122.2	135.4	154.4	178.4	215.6	486.5	2301.8	5248.6	6022.5	6073.7
37.5°	94.2	105.7	119.8	137.1	156.1	198.2	390.7	2128.4	5539.3	6464.4	6380.1
40°	79.3	90.0	103.2	122.2	139.6	181.7	300.6	1943.4	5853.2	6879.0	6714.6
42.5°	64.4	76.0	91.7	109.0	137.9	158.6	232.9	1751.7	6134.8	7239.9	7016.9
45°	51.2	61.1	77.6	99.9	137.1	136.3	180.0	1562.6	6347.1	7497.6	7242.4
47.5°	40.5	48.7	65.2	97.5	126.4	115.6	144.5	1445.3	6570.1	7729.7	7415.0
50°	32.2	40.5	56.2	101.6	110.7	99.1	121.4	1464.3	6785.6	7847.8	7486.0
52.5°	27.3	35.5	48.7	80.1	85.1	86.7	106.5	1551.9	7064.0	7974.1	7627.2
55°	24.0	31.4	41.3	56.2	66.1	77.6	97.5	1615.5	7436.5	8245.0	7938.6
57.5°	19.0	27.3	37.2	47.9	54.5	67.7	90.0	1620.4	7773.4	8592.7	8352.4
59°	17.3	24.8	34.7	45.4	48.7	61.1	85.1	1578.3	7785.8	8644.8	8542.3
60°	15.7	24.0	33.0	42.1	46.3	57.8	80.9	1529.6	7673.5	8562.2	8620.8
62.5°	13.2	20.6	28.9	33.9	39.6	47.9	70.2	1352.8	7129.2	8188.0	8475.4
65°	11.6	18.2	24.8	28.1	33.0	41.3	61.9	1082.8	6528.0	7680.9	8059.2
67.5°	10.7	16.5	21.5	24.0	28.9	38.0	55.3	764.8	5749.1	7037.5	7434.0
70°	9.9	15.7	19.0	22.3	25.6	32.2	47.1	446.0	4428.5	5909.4	6328.1
72.5°	9.9	14.9	16.5	19.0	22.3	28.9	43.8	241.2	3027.8	4507.8	5048.8
75°	9.9	14.0	14.9	16.5	19.8	26.4	38.8	126.4	1957.4	3131.8	3865.2
77.5°	9.9	13.2	14.9	15.7	19.0	23.1	33.9	79.3	1304.1	2193.6	2612.3
80°	10.7	13.2	14.0	15.7	18.2	21.5	28.1	52.9	766.4	1319.8	1589.9
82.5°	11.6	13.2	14.9	16.5	19.0	20.6	24.8	33.0	353.5	873.0	987.8
85°	12.4	14.0	15.7	17.3	19.8	20.6	23.1	24.0	57.8	394.0	532.7
87.5°	13.2	14.9	16.5	18.2	21.5	21.5	21.5	21.5	19.8	42.1	107.4
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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CATALOG NUMBER: GALN-SA4A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0
2.5°	4051.9	4145.2	4210.5	4227.0	4179.9	4158.4	4099.0	4006.5	3950.3	3947.8
5°	4269.9	4488.8	4640.8	4666.4	4575.5	4421.9	4239.4	4004.0	3866.1	3824.8
7.5°	4232.8	4616.0	4860.5	4896.0	4743.2	4450.0	4096.5	3717.4	3567.1	3503.5
10°	4080.0	4547.4	4896.8	4953.0	4749.0	4336.0	3886.7	3463.8	3277.2	3228.5
12.5°	3949.5	4421.9	4732.4	4810.1	4655.6	4243.5	3761.2	3301.1	3101.3	3055.9
15°	3892.5	4273.2	4463.2	4502.8	4477.2	4185.7	3748.0	3276.4	3047.6	2998.0
17.5°	3949.5	4146.9	4170.8	4211.3	4268.3	4179.9	3875.1	3411.0	3164.0	3102.9
20°	4099.0	4037.0	3937.9	3955.3	4085.8	4203.9	4101.4	3709.1	3408.5	3343.3
22.5°	4353.3	4009.8	3785.1	3770.3	3935.4	4284.0	4433.5	4113.0	3764.5	3700.1
25°	4665.5	4078.3	3729.0	3696.8	3876.8	4401.3	4794.4	4607.7	4227.0	4128.7
27.5°	5005.8	4220.4	3729.0	3697.6	3871.8	4505.3	5103.3	5045.5	4706.0	4598.6
30°	5192.5	4337.7	3782.6	3747.1	3933.0	4565.6	5268.5	5434.5	5066.1	4933.1
32.5°	5359.3	4500.4	3887.5	3820.6	4061.0	4654.8	5416.3	5764.8	5352.7	5263.5
35°	5512.9	4674.6	4032.1	3954.4	4229.5	4777.0	5579.8	6111.7	5751.6	5617.0
37.5°	5682.2	4877.0	4257.5	4191.5	4511.1	5014.9	5773.9	6567.6	6143.9	5974.6
40°	5866.4	5111.5	4628.4	4600.3	4958.7	5284.1	6019.2	7054.1	6591.6	6399.1
42.5°	6053.9	5381.6	5082.6	5128.9	5465.8	5661.6	6271.1	7428.2	6958.3	6746.0
45°	6224.0	5726.8	5673.1	5901.9	6057.2	6029.9	6457.8	7691.7	7277.9	7074.7
47.5°	6438.8	6229.8	6387.6	6740.2	6744.3	6430.5	6599.0	7907.2	7552.9	7349.7
50°	6679.1	6823.6	7310.1	7669.4	7572.7	6824.5	6764.2	8162.4	7837.0	7674.3
52.5°	6957.4	7488.5	8162.4	8561.3	8335.9	7253.9	7039.2	8438.3	8288.0	8131.9
55°	7281.2	7941.9	9012.3	9330.3	9103.1	7787.5	7457.1	8812.4	8797.5	8691.0
57.5°	7647.1	8420.9	9504.5	9934.8	9732.5	8413.5	8041.0	9165.1	9108.9	9049.4
59°	7936.1	8667.1	9721.7	10167.7	10045.5	8852.1	8433.3	9384.8	9180.8	9091.6
60°	8111.2	8833.9	9801.8	10199.1	10171.0	9113.0	8681.9	9492.1	9179.9	9056.1
62.5°	8630.7	9125.4	9771.3	10059.5	10169.4	9613.5	9411.2	9610.2	9009.8	8828.1
65°	8815.7	9028.8	9265.0	9229.5	9323.6	9587.9	9877.0	9480.6	8646.4	8387.9
67.5°	8455.6	7969.2	8052.6	7815.5	7769.3	8524.2	9687.9	8846.3	7935.3	7619.0
70°	7127.6	6105.1	6063.0	6172.0	5873.0	6901.3	8699.3	7624.8	6761.7	6403.2
72.5°	5610.4	4314.5	3959.4	4360.8	4351.7	5265.1	7226.7	5410.5	4568.1	4537.5
75°	4412.0	3003.8	2636.3	2701.5	2827.1	3811.6	5755.7	3435.8	2813.0	2563.6
77.5°	2961.7	2128.4	1985.5	1905.4	2040.8	2447.2	3641.4	1863.2	1577.5	1494.1
80°	1707.1	1546.1	1755.9	1594.0	1666.7	1542.0	1811.2	854.8	709.5	768.1
82.5°	1110.8	880.4	938.2	697.1	953.1	961.4	581.4	252.7	213.9	227.1
85°	694.6	413.0	232.1	165.2	328.7	604.6	181.7	15.7	18.2	15.7
87.5°	180.0	68.6	28.9	42.9	52.9	47.1	42.1	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)