

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: P453044

Luminaire Tested: **GALN-SA4A-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12992 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

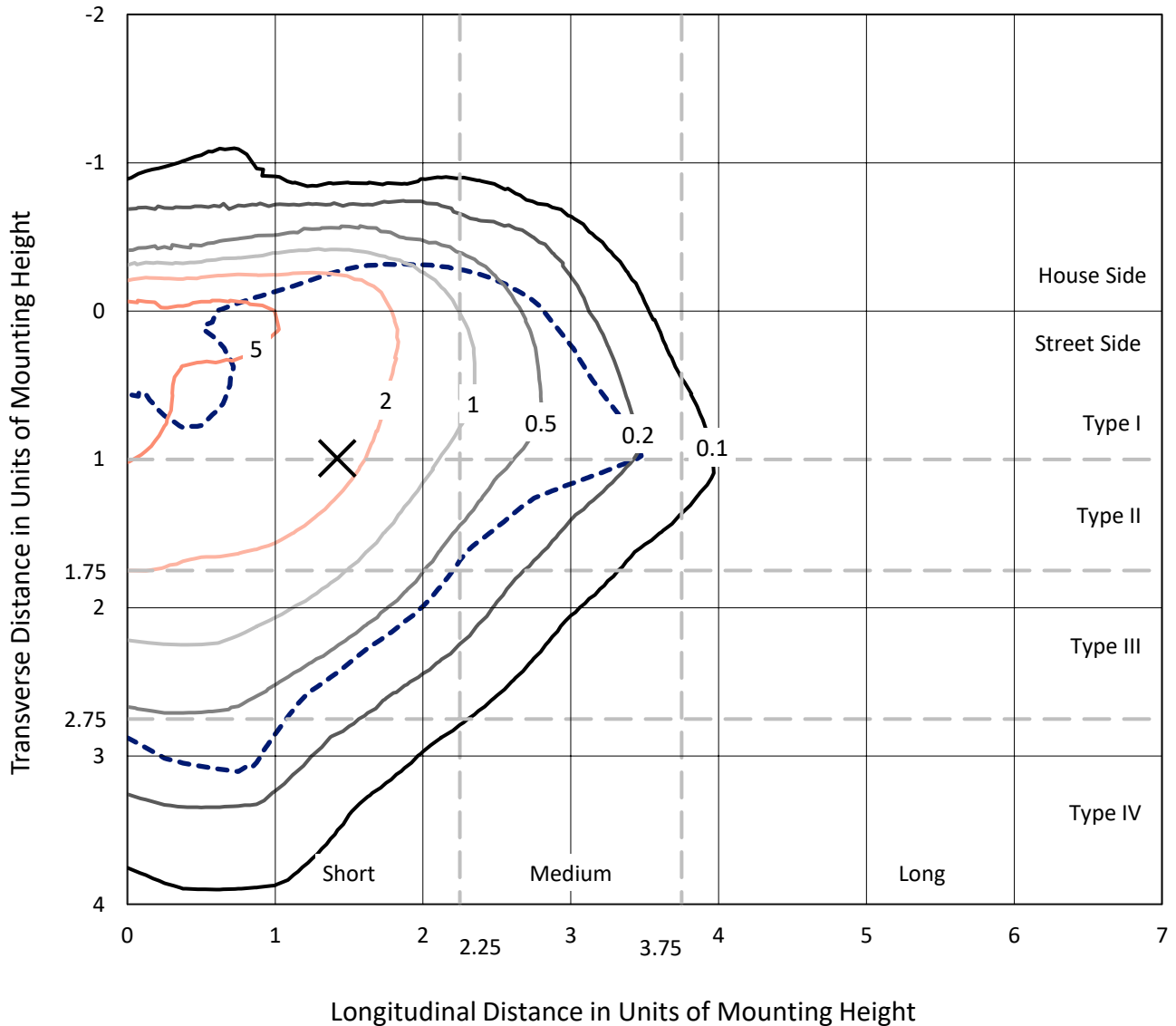
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

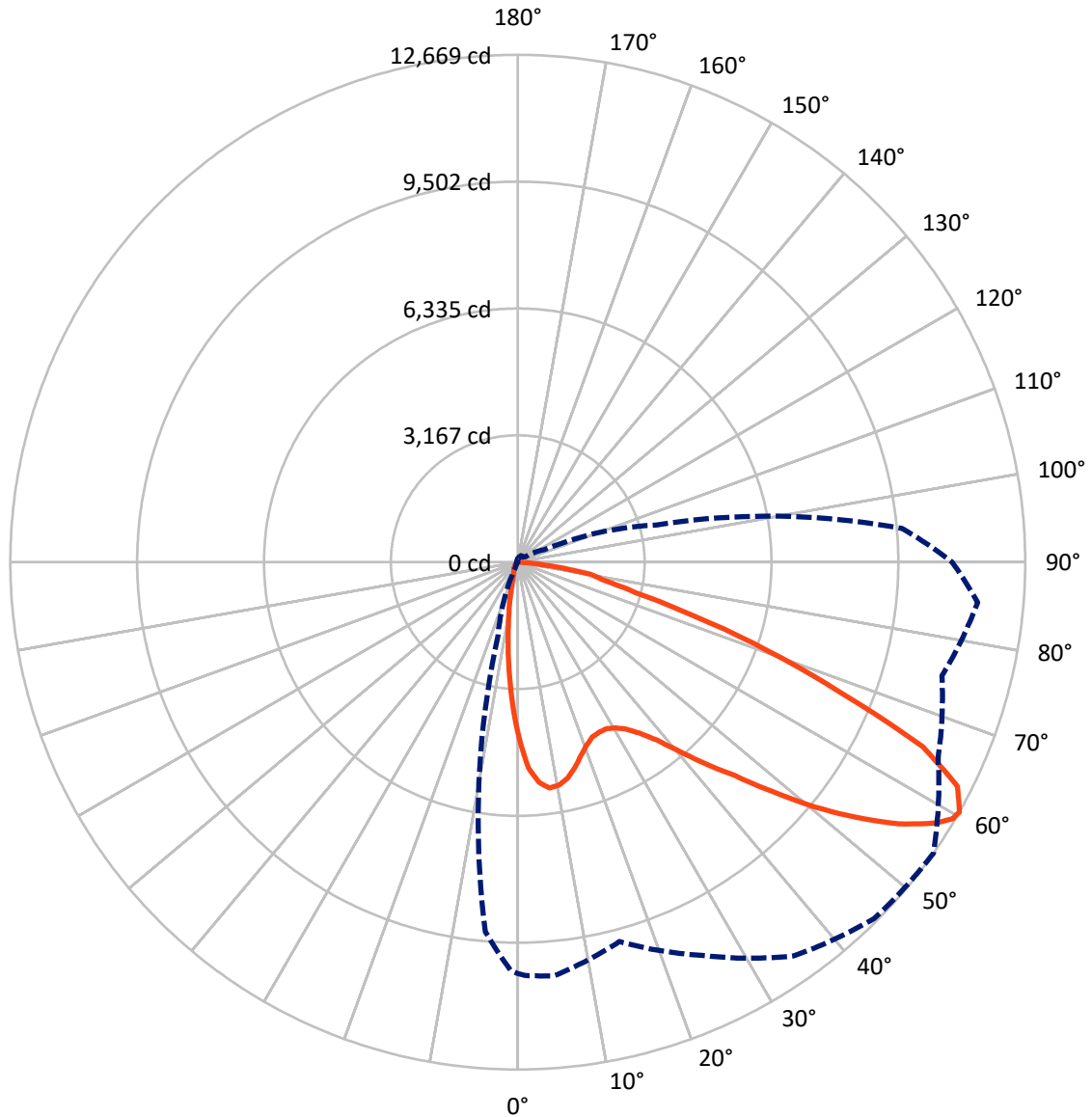
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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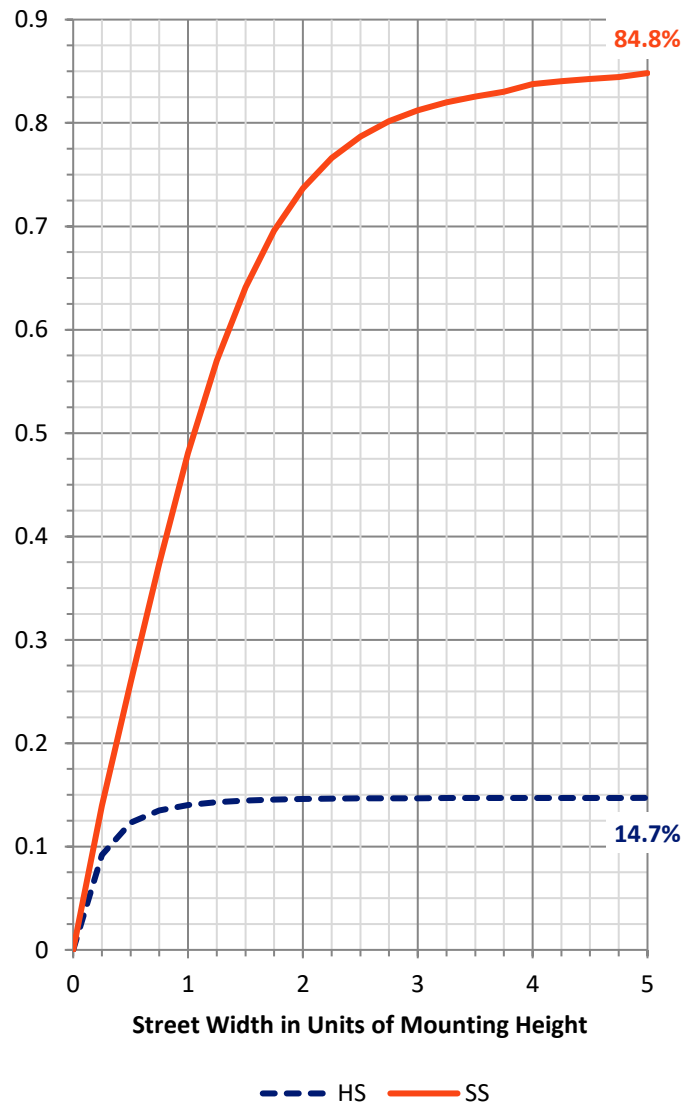
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.1	0.0	1928.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	11063.9	0.0	11063.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	12992.0	0.0	12992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.8	2.5
10°-20°	641.5	4.9
20°-30°	949.5	7.3
30°-40°	1415.4	10.9
40°-50°	2072.8	16.0
50°-60°	2992.5	23.0
60°-70°	3147.9	24.2
70°-80°	1295.0	10.0
80°-90°	151.7	1.2
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°	12992.0	100.0
0°-180°	12992.0	100.0



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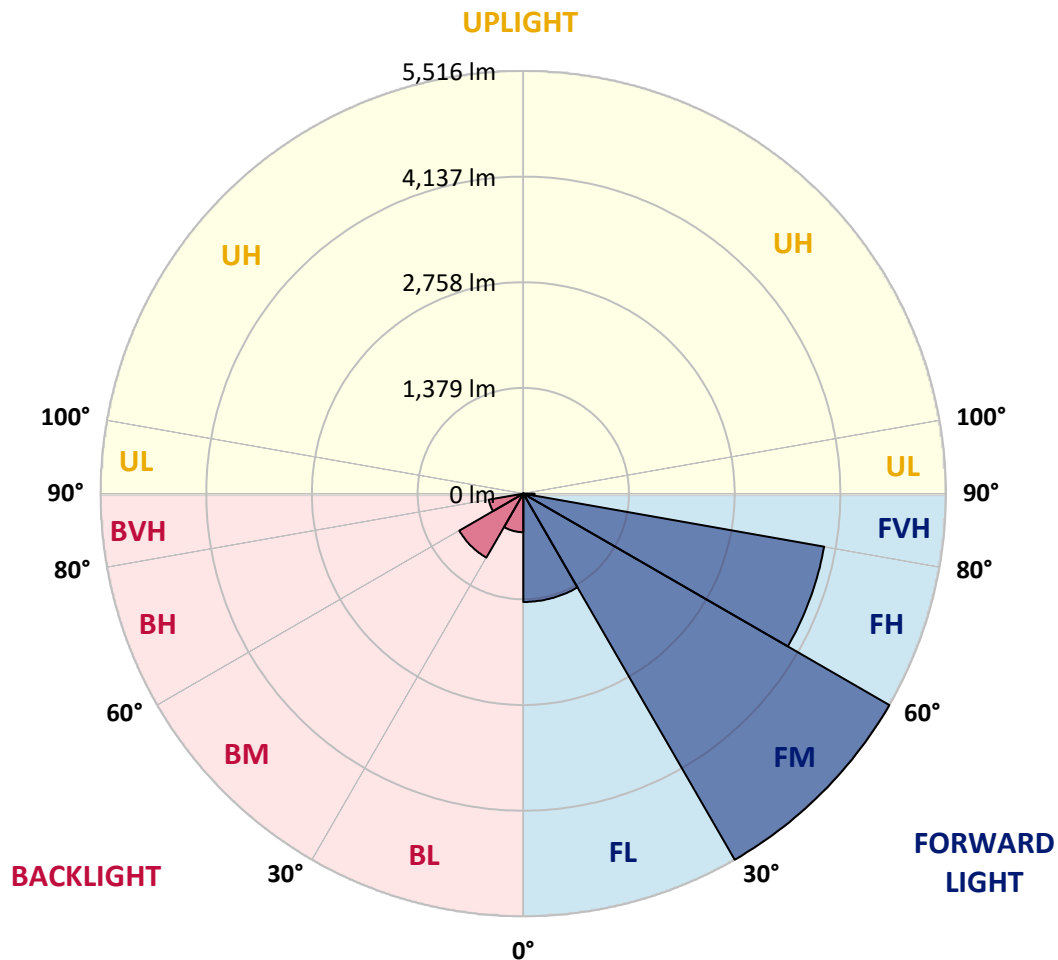
CATALOG NUMBER: GALN-SA4A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.7	10.9			
FM (30°-60°)	5516.4	42.5			
FH (60°-80°)	3986.5	30.7			G2/5000
FVH (80°-90°)	147.2	1.1			G2/225
BL (0°-30°)	503.1	3.9	B2/1000		
BM (30°-60°)	964.2	7.4	B1/1000		
BH (60°-80°)	456.4	3.5	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1
2.5°	4806.1	4798.1	4869.1	4985.1	5102.1	5163.1	5151.1	5146.1	5049.1	4978.1	4829.1
5°	4796.1	4837.1	4964.1	5278.1	5516.1	5631.1	5665.1	5522.1	5333.1	5059.1	4721.1
7.5°	4509.1	4560.1	4767.1	5258.1	5681.1	5931.1	5922.1	5693.1	5303.1	4879.1	4397.1
10°	4153.1	4213.1	4456.1	5052.1	5601.1	5931.1	5949.1	5659.1	5174.1	4630.1	4123.1
12.5°	3902.0	3973.0	4242.1	4860.1	5395.1	5720.1	5741.1	5531.1	5077.1	4534.1	3974.0
15°	3817.0	3884.0	4157.1	4763.1	5176.1	5351.1	5346.1	5324.1	5039.1	4557.1	3982.1
17.5°	3963.0	4018.1	4326.1	4807.1	4971.1	4953.1	4979.1	5085.1	5047.1	4750.1	4234.1
20°	4340.1	4396.1	4727.1	4942.1	4814.1	4700.1	4712.1	4889.1	5121.1	5113.1	4628.1
22.5°	4859.1	4954.1	5254.1	5204.1	4793.1	4543.1	4518.1	4748.1	5247.1	5531.1	5160.1
25°	5516.1	5612.1	5846.1	5622.1	4896.1	4506.1	4483.1	4705.1	5400.1	5939.1	5759.1
27.5°	6068.1	6141.1	6374.1	6029.1	5048.1	4522.1	4484.1	4711.1	5524.1	6286.1	6264.1
30°	6510.1	6564.1	6701.1	6219.1	5179.1	4592.1	4548.1	4799.1	5579.1	6455.1	6673.1
32.5°	6866.1	6957.1	7000.1	6422.1	5367.1	4724.1	4649.1	4968.1	5713.1	6664.1	7102.1
35°	7273.1	7378.1	7323.1	6616.1	5615.1	4930.1	4838.1	5242.1	5916.1	6857.1	7600.1
37.5°	7789.1	7910.1	7695.1	6820.1	5877.1	5240.1	5197.1	5627.1	6224.1	7133.1	8134.1
40°	8323.1	8393.1	8056.1	7068.1	6199.1	5691.1	5732.1	6199.1	6627.1	7464.1	8702.1
42.5°	8740.1	8806.1	8427.1	7276.1	6528.1	6226.1	6397.1	6889.1	7089.1	7803.1	9126.1
45°	9059.1	9115.1	8684.1	7503.1	6972.1	7001.1	7324.1	7600.1	7552.1	8010.1	9453.1
47.5°	9307.1	9355.1	8882.1	7747.1	7637.1	7949.1	8443.1	8560.1	8032.1	8234.1	9749.1
50°	9409.1	9423.1	8944.1	8058.1	8392.1	9157.1	9672.1	9601.1	8582.1	8483.1	10064.1
52.5°	9542.1	9539.1	9121.1	8354.1	9102.1	10237.1	10751.1	10590.1	9204.1	8856.1	10418.1
55°	9891.1	9895.1	9500.1	8774.1	9707.1	11109.1	11659.1	11542.1	9860.1	9486.1	10831.1
57.5°	10315.1	10330.1	10039.1	9265.1	10285.1	11741.1	12337.2	12292.2	10747.1	10187.1	11221.1
59°	10370.1	10400.1	10294.1	9611.1	10628.1	11935.1	12569.2	12613.2	11222.1	10649.1	11432.1
60°	10270.1	10320.1	10368.1	9807.1	10829.1	12005.2	12583.2	12669.2	11579.1	10963.1	11528.1
62.5°	9834.1	9913.1	10154.1	10410.1	11080.1	11787.1	12136.2	12316.2	12021.2	11788.1	11537.1
65°	9263.1	9304.1	9652.1	10517.1	10593.1	10769.1	10877.1	11108.1	11490.1	12106.2	11124.1
67.5°	8327.1	8448.1	8874.1	9896.1	9156.1	8948.1	8921.1	8691.1	9683.1	11348.1	10106.1
70°	6879.1	6933.1	7458.1	8113.1	6910.1	6590.1	6718.1	6632.1	7506.1	9769.1	8134.1
72.5°	5202.1	5324.1	5837.1	6467.1	4702.1	4287.1	4640.1	4608.1	5638.1	7851.1	5588.1
75°	3701.0	3780.0	4434.1	5061.1	3293.0	2790.0	2917.0	3036.0	3936.0	6199.1	3302.0
77.5°	2543.0	2611.0	3102.0	3347.0	2402.0	2301.0	2105.0	2220.0	2579.0	3678.0	1797.0
80°	1534.0	1531.0	1854.0	1914.0	1673.0	1943.0	1630.0	1830.0	1559.0	1574.0	696.0
82.5°	996.0	986.0	1134.0	1236.0	931.0	979.0	657.0	947.0	1016.0	439.0	220.0
85°	446.0	465.0	545.0	719.0	408.0	217.0	134.0	291.0	433.0	221.0	0.0
87.5°	46.0	36.0	96.0	175.0	56.0	6.0	20.0	10.0	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°	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1
2.5°	4760.1	4702.1	4529.1	4367.1	4228.1	4058.1	3948.0	3775.0	3670.0	3638.0	3643.0
5°	4569.1	4402.1	4073.1	3810.0	3517.0	3350.0	3096.0	2852.0	2720.0	2671.0	2649.0
7.5°	4169.1	3990.1	3593.0	3180.0	2866.0	2573.0	2384.0	2169.0	2022.0	1901.0	1880.0
10°	3872.0	3637.0	3145.0	2701.0	2453.0	2233.0	2044.0	1829.0	1656.0	1518.0	1480.0
12.5°	3694.0	3431.0	2882.0	2510.0	2275.0	2049.0	1803.0	1554.0	1377.0	1228.0	1159.0
15°	3662.0	3357.0	2808.0	2373.0	2083.0	1810.0	1483.0	1214.0	1032.0	891.0	848.0
17.5°	3855.0	3490.0	2797.0	2230.0	1832.0	1445.0	1105.0	882.0	677.0	598.0	567.0
20°	4199.1	3725.0	2796.0	2064.0	1574.0	1113.0	776.0	575.0	492.0	454.0	436.0
22.5°	4668.1	4045.1	2849.0	1921.0	1306.0	821.0	554.0	458.0	410.0	379.0	372.0
25°	5241.1	4519.1	2979.0	1824.0	1101.0	644.0	457.0	392.0	352.0	338.0	332.0
27.5°	5750.1	4973.1	3122.0	1724.0	954.0	570.0	424.0	359.0	327.0	316.0	307.0
30°	6189.1	5385.1	3191.0	1592.0	836.0	522.0	430.0	384.0	342.0	309.0	294.0
32.5°	6555.1	5701.1	3236.0	1472.0	736.0	427.0	340.0	297.0	278.0	266.0	256.0
35°	7013.1	6043.1	3209.0	1404.0	685.0	389.0	310.0	256.0	224.0	200.0	190.0
37.5°	7493.1	6385.1	3162.0	1348.0	662.0	361.0	295.0	243.0	208.0	183.0	170.0
40°	7990.1	6702.1	3107.0	1296.0	641.0	343.0	286.0	232.0	197.0	170.0	156.0
42.5°	8445.1	7011.1	3085.0	1262.0	607.0	346.0	279.0	227.0	186.0	158.0	146.0
45°	8813.1	7304.1	3115.0	1244.0	570.0	341.0	281.0	221.0	177.0	150.0	138.0
47.5°	9206.1	7718.1	3212.0	1226.0	534.0	317.0	296.0	220.0	173.0	145.0	132.0
50°	9663.1	8248.1	3434.0	1182.0	490.0	291.0	315.0	219.0	168.0	139.0	126.0
52.5°	10272.1	8850.1	3663.0	1105.0	426.0	266.0	301.0	216.0	158.0	132.0	119.0
55°	10819.1	9484.1	3857.0	1014.0	345.0	230.0	271.0	203.0	141.0	120.0	108.0
57.5°	11045.1	9842.1	3851.0	888.0	276.0	202.0	223.0	186.0	123.0	106.0	96.0
59°	10962.1	9797.1	3722.0	795.0	252.0	187.0	185.0	184.0	115.0	96.0	88.0
60°	10845.1	9633.1	3583.0	749.0	237.0	177.0	170.0	182.0	108.0	90.0	82.0
62.5°	10397.1	8953.1	3122.0	671.0	217.0	150.0	136.0	154.0	96.0	78.0	71.0
65°	9748.1	7908.1	2643.0	649.0	211.0	124.0	113.0	110.0	82.0	66.0	60.0
67.5°	8482.1	6692.1	2141.0	634.0	213.0	104.0	99.0	83.0	68.0	55.0	51.0
70°	6791.1	5218.1	1753.0	617.0	215.0	85.0	83.0	66.0	55.0	46.0	42.0
72.5°	4126.1	3093.0	1380.0	536.0	209.0	68.0	74.0	50.0	40.0	33.0	31.0
75°	2551.0	2117.0	856.0	417.0	138.0	50.0	52.0	31.0	27.0	21.0	21.0
77.5°	1478.0	1337.0	306.0	150.0	61.0	30.0	23.0	16.0	15.0	9.0	9.0
80°	613.0	491.0	106.0	51.0	33.0	14.0	5.0	1.0	0.0	0.0	0.0
82.5°	179.0	159.0	29.0	23.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1
2.5°	3558.0	3525.0	3510.0	3561.0	3514.0	3574.0	3528.0	3548.0	3607.0	3633.0	3700.0
5°	2663.0	2629.0	2613.0	2690.0	2686.0	2724.0	2720.0	2755.0	2785.0	2718.0	2787.0
7.5°	1855.0	1832.0	1870.0	1930.0	1994.0	1973.0	1973.0	1926.0	1942.0	1932.0	1929.0
10°	1411.0	1332.0	1312.0	1310.0	1334.0	1339.0	1312.0	1247.0	1271.0	1278.0	1320.0
12.5°	1110.0	1049.0	956.0	914.0	903.0	912.0	823.0	766.0	793.0	777.0	818.0
15°	796.0	746.0	691.0	644.0	631.0	613.0	516.0	448.0	440.0	443.0	450.0
17.5°	568.0	534.0	534.0	484.0	457.0	403.0	354.0	324.0	321.0	324.0	329.0
20°	419.0	401.0	399.0	386.0	356.0	320.0	286.0	280.0	278.0	283.0	285.0
22.5°	361.0	342.0	326.0	325.0	297.0	267.0	251.0	243.0	244.0	246.0	251.0
25°	323.0	303.0	286.0	276.0	256.0	235.0	220.0	216.0	216.0	219.0	220.0
27.5°	296.0	271.0	256.0	242.0	224.0	206.0	193.0	190.0	188.0	190.0	195.0
30°	277.0	252.0	233.0	212.0	198.0	181.0	170.0	166.0	165.0	166.0	170.0
32.5°	237.0	222.0	207.0	188.0	171.0	160.0	148.0	141.0	141.0	143.0	147.0
35°	179.0	171.0	170.0	165.0	151.0	139.0	125.0	118.0	118.0	122.0	124.0
37.5°	158.0	143.0	141.0	139.0	133.0	117.0	104.0	98.0	97.0	100.0	104.0
40°	144.0	127.0	118.0	116.0	117.0	99.0	85.0	79.0	79.0	80.0	84.0
42.5°	133.0	113.0	97.0	95.0	99.0	83.0	69.0	63.0	63.0	63.0	68.0
45°	124.0	101.0	82.0	72.0	78.0	68.0	56.0	50.0	48.0	50.0	52.0
47.5°	118.0	92.0	72.0	58.0	58.0	54.0	45.0	38.0	36.0	37.0	40.0
50°	113.0	84.0	61.0	47.0	42.0	43.0	34.0	29.0	27.0	27.0	30.0
52.5°	105.0	76.0	53.0	40.0	32.0	29.0	25.0	21.0	20.0	21.0	23.0
55°	95.0	69.0	46.0	33.0	25.0	20.0	18.0	15.0	14.0	15.0	18.0
57.5°	84.0	58.0	37.0	26.0	17.0	13.0	12.0	10.0	8.0	9.0	11.0
59°	77.0	52.0	32.0	21.0	13.0	9.0	9.0	7.0	5.0	6.0	9.0
60°	74.0	48.0	27.0	18.0	11.0	7.0	7.0	5.0	3.0	4.0	7.0
62.5°	63.0	40.0	21.0	11.0	5.0	1.0	3.0	1.0	0.0	1.0	3.0
65°	53.0	32.0	14.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	44.0	24.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	35.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	24.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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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 CATALOG NUMBER: GALN-SA4A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1
2.5°	3704.0	3847.0	3935.0	4101.1	4271.1	4402.1	4566.1	4713.1	4774.1	4806.1
5°	2857.0	3056.0	3225.0	3478.0	3713.0	3999.1	4289.1	4631.1	4762.1	4796.1
7.5°	2005.0	2208.0	2385.0	2678.0	3013.0	3396.0	3830.0	4264.1	4455.1	4509.1
10°	1448.0	1665.0	1881.0	2174.0	2487.0	2902.0	3354.0	3891.0	4111.1	4153.1
12.5°	914.0	1147.0	1498.0	1860.0	2191.0	2525.0	2998.0	3582.0	3825.0	3902.0
15°	530.0	704.0	969.0	1441.0	1862.0	2304.0	2820.0	3466.0	3738.0	3817.0
17.5°	355.0	415.0	597.0	958.0	1514.0	2100.0	2775.0	3561.0	3862.0	3963.0
20°	299.0	326.0	390.0	584.0	1166.0	1918.0	2787.0	3819.0	4214.1	4340.1
22.5°	263.0	288.0	329.0	420.0	814.0	1692.0	2844.0	4188.1	4698.1	4859.1
25°	232.0	257.0	293.0	348.0	547.0	1431.0	2969.0	4728.1	5339.1	5516.1
27.5°	206.0	229.0	260.0	307.0	421.0	1140.0	3080.0	5254.1	5924.1	6068.1
30°	182.0	201.0	231.0	267.0	350.0	879.0	3136.0	5714.1	6350.1	6510.1
32.5°	158.0	176.0	205.0	234.0	288.0	670.0	3097.0	6052.1	6764.1	6866.1
35°	135.0	154.0	178.0	205.0	249.0	541.0	2902.0	6432.1	7193.1	7273.1
37.5°	116.0	132.0	157.0	178.0	225.0	433.0	2666.0	6774.1	7674.1	7789.1
40°	98.0	114.0	139.0	158.0	207.0	341.0	2453.0	7154.1	8181.1	8323.1
42.5°	80.0	99.0	121.0	152.0	178.0	260.0	2195.0	7462.1	8562.1	8740.1
45°	64.0	85.0	109.0	151.0	155.0	198.0	1946.0	7702.1	8899.1	9059.1
47.5°	51.0	72.0	105.0	141.0	127.0	157.0	1804.0	7953.1	9179.1	9307.1
50°	41.0	60.0	110.0	124.0	106.0	133.0	1800.0	8233.1	9324.1	9409.1
52.5°	33.0	49.0	93.0	95.0	90.0	117.0	1908.0	8548.1	9472.1	9542.1
55°	28.0	41.0	61.0	70.0	81.0	106.0	1989.0	9033.1	9825.1	9891.1
57.5°	22.0	35.0	47.0	56.0	72.0	97.0	2000.0	9407.1	10272.1	10315.1
59°	19.0	30.0	42.0	50.0	66.0	91.0	1955.0	9430.1	10301.1	10370.1
60°	16.0	27.0	37.0	47.0	61.0	86.0	1906.0	9263.1	10193.1	10270.1
62.5°	12.0	21.0	27.0	38.0	50.0	74.0	1674.0	8680.1	9780.1	9834.1
65°	8.0	15.0	20.0	28.0	39.0	64.0	1364.0	7924.1	9142.1	9263.1
67.5°	5.0	11.0	16.0	21.0	32.0	54.0	972.0	6795.1	8249.1	8327.1
70°	3.0	7.0	12.0	17.0	25.0	43.0	577.0	5371.1	6863.1	6879.1
72.5°	2.0	5.0	8.0	12.0	20.0	39.0	280.0	3501.0	5011.1	5202.1
75°	1.0	3.0	5.0	9.0	16.0	32.0	134.0	2339.0	3646.0	3701.0
77.5°	0.0	1.0	3.0	6.0	12.0	25.0	78.0	1536.0	2486.0	2543.0
80°	0.0	0.0	2.0	5.0	9.0	16.0	47.0	906.0	1506.0	1534.0
82.5°	0.0	0.0	1.0	4.0	6.0	12.0	24.0	398.0	986.0	996.0
85°	0.0	0.0	1.0	4.0	5.0	8.0	9.0	54.0	438.0	446.0
87.5°	0.0	0.0	1.0	5.0	5.0	5.0	5.0	3.0	37.0	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)