

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: P531641

Luminaire Tested: **GALN-SA7A-722-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-722-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12945 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

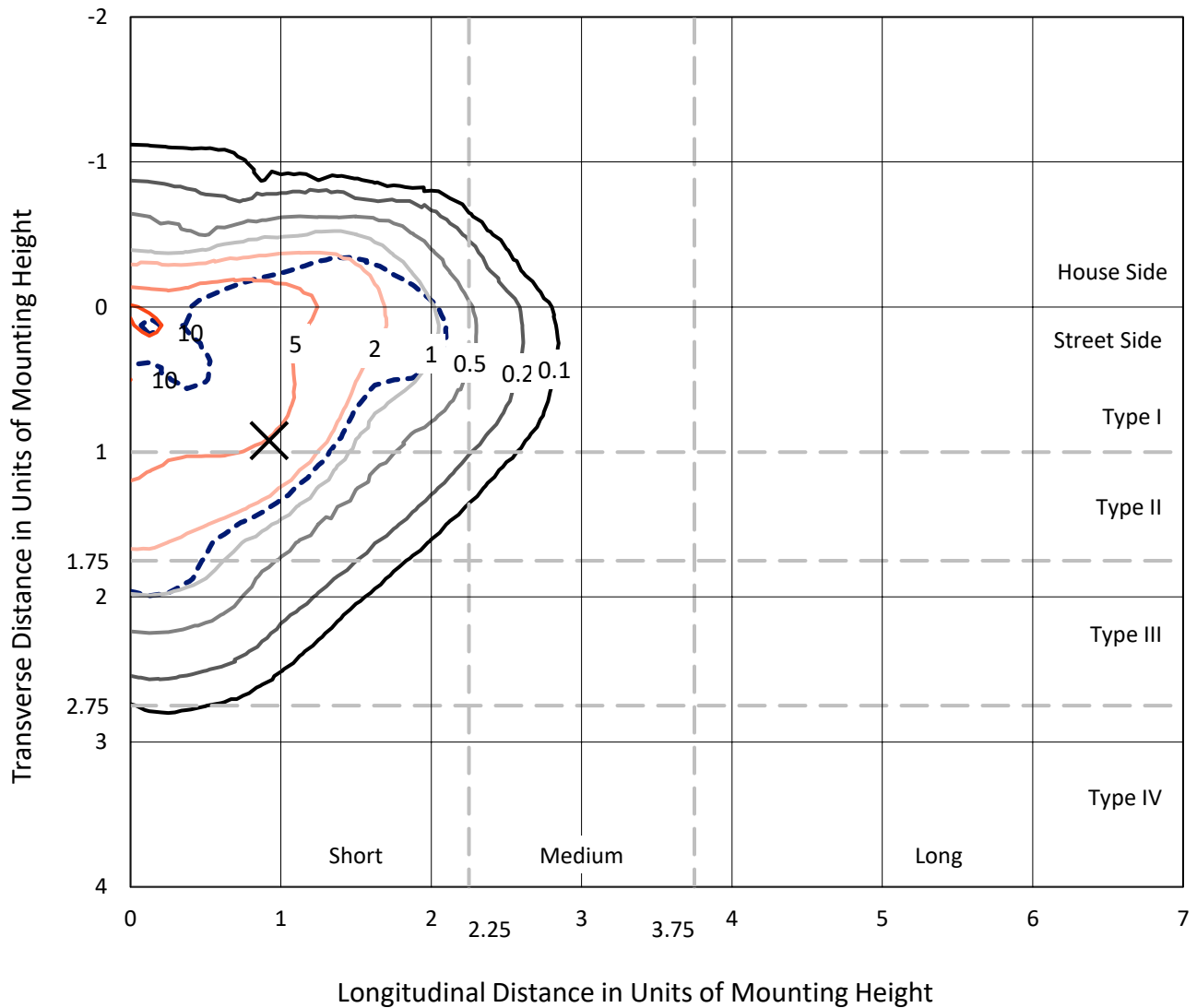
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

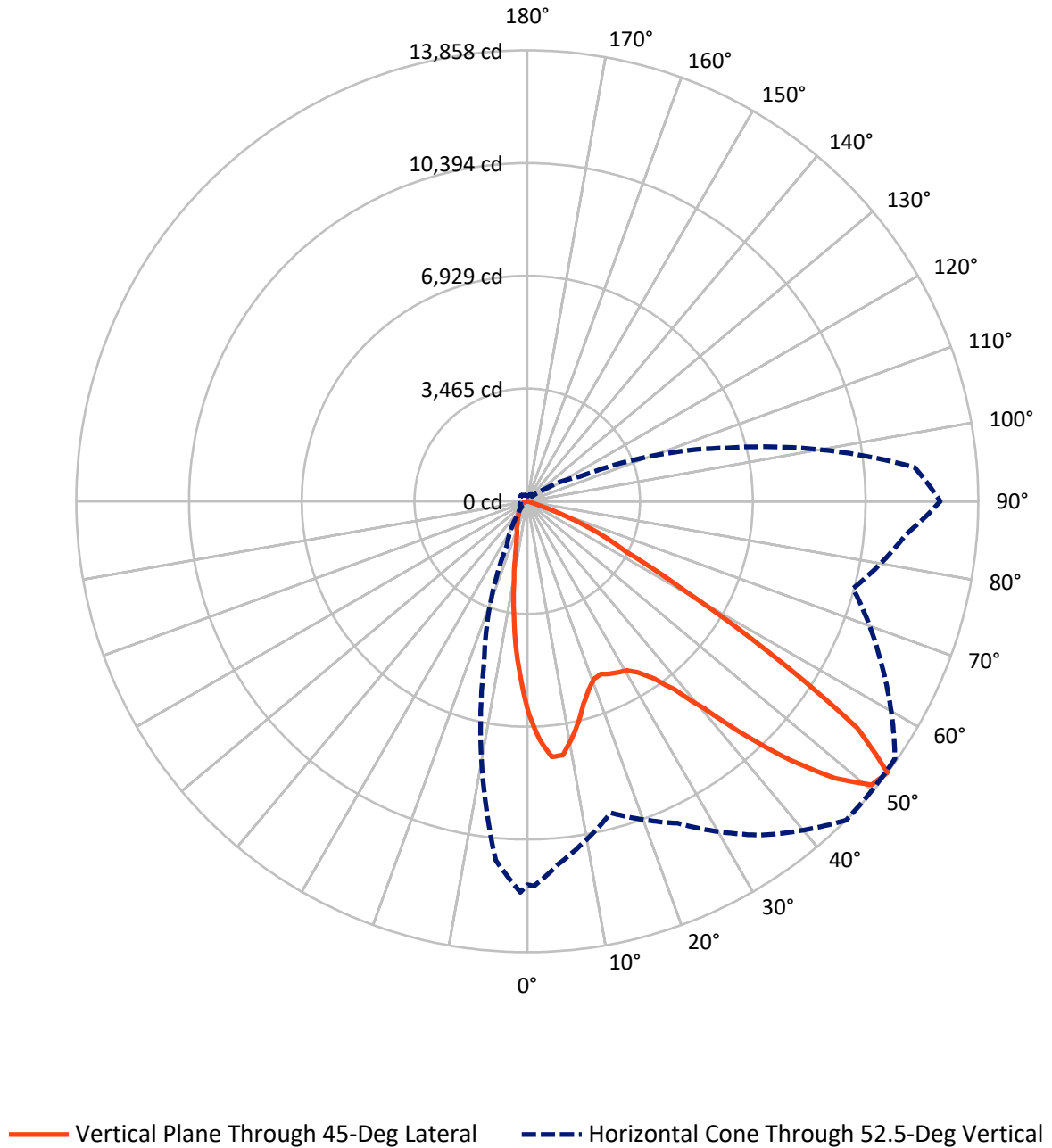
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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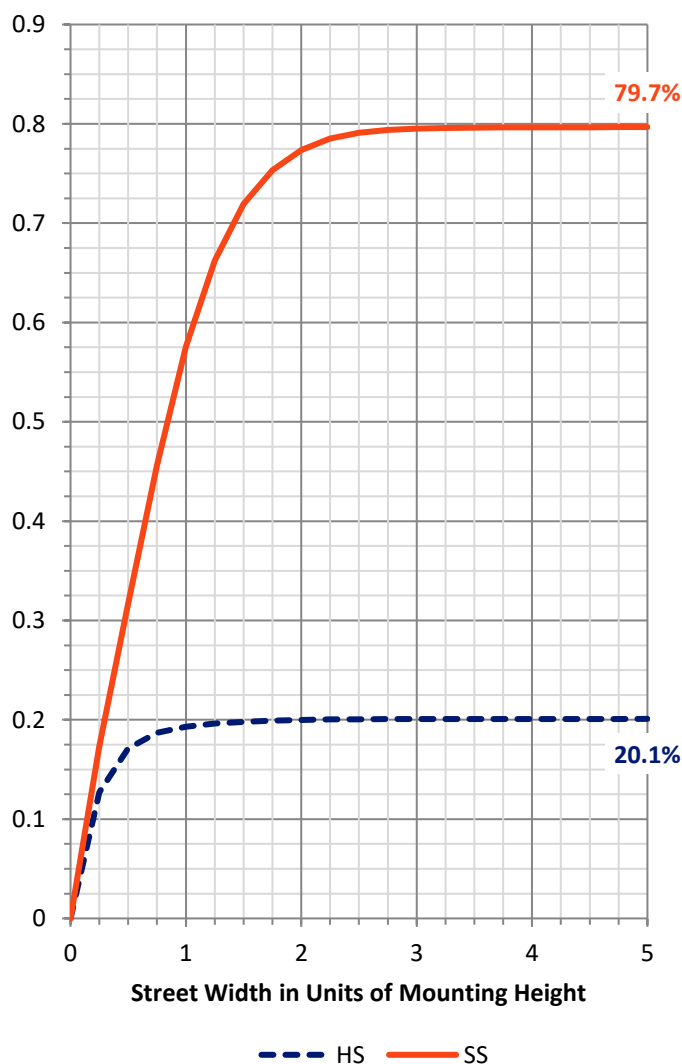
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.2	0.0	2627.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10317.8	0.0	10317.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	12945.0	0.0	12945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.7	3.7
10°-20°	944.4	7.3
20°-30°	1437.3	11.1
30°-40°	2148.1	16.6
40°-50°	3059.2	23.6
50°-60°	3288.5	25.4
60°-70°	1457.2	11.3
70°-80°	117.9	0.9
80°-90°	13.7	0.1
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°	12945.0	100.0
0°-180°	12945.0	100.0

Coefficient of Utilization



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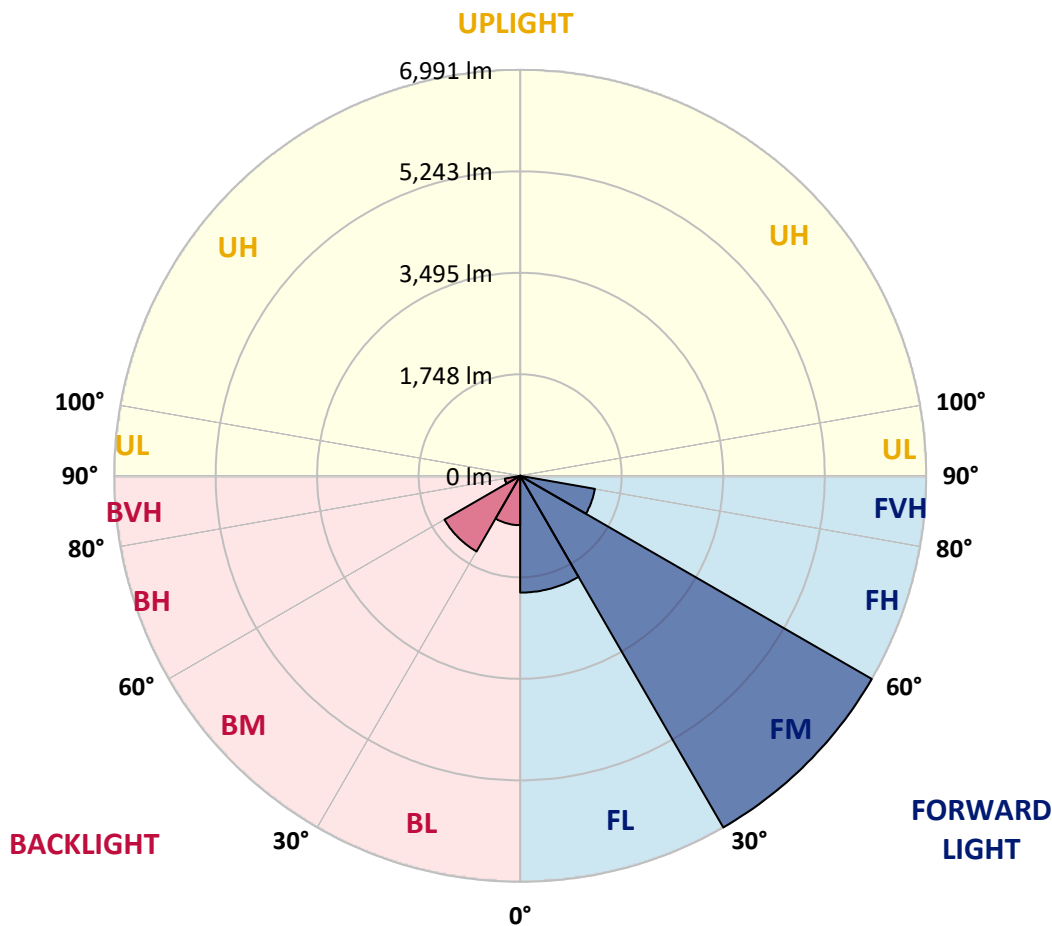
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.6	15.5			
FM (30°-60°)	6990.7	54.0			
FH (60°-80°)	1306.3	10.1			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	849.7	6.6	B2/1000		
BM (30°-60°)	1505.1	11.6	B2/2500		
BH (60°-80°)	268.8	2.1	B1/500		G1/500
BVH (80°-90°)	3.6	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7
2.5°	6945.6	6966.0	7078.0	7218.1	7291.9	7459.9	7342.8	7373.4	7309.7	7085.7	6910.0
5°	6734.3	6731.8	6874.3	7220.6	7549.0	7882.6	7892.8	7714.5	7401.4	7057.7	6566.3
7.5°	6097.8	6197.1	6344.8	6897.2	7505.8	7755.3	7874.9	7666.2	7185.0	6693.6	6161.4
10°	5616.6	5667.5	5917.0	6584.1	7029.6	7363.2	7437.0	7317.3	6948.2	6334.6	5738.8
12.5°	5339.1	5364.5	5657.3	6217.5	6688.5	6935.4	6971.1	7027.1	6762.3	6186.9	5471.5
15°	5341.6	5362.0	5756.6	6225.1	6411.0	6344.8	6461.9	6459.3	6573.9	6158.9	5695.5
17.5°	5726.1	5749.0	6105.4	6337.1	6255.6	6100.3	6092.7	6209.8	6451.7	6507.7	6034.1
20°	6388.0	6441.5	6703.7	6691.0	6232.7	5919.6	5833.0	5922.1	6484.8	6803.0	6716.5
22.5°	7279.2	7353.0	7536.3	7185.0	6337.1	5797.4	5769.3	5942.5	6703.7	7462.5	7490.5
25°	8312.9	8437.6	8526.7	8076.1	6708.8	6008.7	5876.3	6174.2	6999.1	8177.9	8475.8
27.5°	8997.7	9127.6	9107.2	8463.1	6958.4	6064.7	5952.7	6230.2	7256.2	8348.5	8990.1
30°	9532.4	9611.3	9753.9	8671.8	7207.9	6222.5	6031.6	6467.0	7340.3	8643.8	9611.3
32.5°	10156.2	10209.7	10219.8	9041.0	7592.3	6421.1	6276.0	6762.3	7712.0	8926.5	10161.3
35°	10785.1	10864.0	10698.5	9496.8	7829.1	6790.3	6683.4	7274.1	8009.9	9219.2	10767.2
37.5°	11467.4	11508.1	11126.2	9685.2	8167.7	7391.2	7332.6	7826.6	8526.7	9748.8	11439.4
40°	12040.3	12078.5	11582.0	9916.9	8524.2	8231.4	8381.6	8880.6	9229.4	10092.5	11775.5
42.5°	12358.5	12447.6	11734.7	9789.6	9239.6	9183.6	9850.7	10026.3	10044.2	10189.3	12075.9
45°	12445.1	12404.4	11482.7	9894.0	9865.9	10749.4	11355.4	11587.1	10853.8	10367.5	12152.3
47.5°	12045.4	12098.8	11111.0	9802.3	10688.3	11935.9	12720.1	13150.3	11457.2	10212.2	11963.9
50°	11722.0	11653.3	10991.3	9736.1	10909.8	12496.0	13705.4	13802.1	12012.3	10403.2	11757.7
52.5°	11785.7	11828.9	11182.3	9911.8	10914.9	12529.1	13858.1	13792.0	12030.1	10359.9	11683.8
55°	11920.6	11729.7	11100.8	9524.8	10184.2	11604.9	12300.0	12198.1	11103.3	9899.0	11503.1
57.5°	10286.0	10581.4	10207.1	8503.8	8358.7	8743.1	8730.4	9043.6	8282.3	8519.1	10471.9
60°	8348.5	8399.4	8539.5	7274.1	5784.6	5652.2	5468.9	5270.3	5573.3	7284.2	9524.8
62.5°	7342.8	7281.7	7780.7	6617.2	4083.9	3419.3	3388.8	3511.0	4300.3	6948.2	8934.1
65°	5336.5	5412.9	5774.4	5135.4	3065.4	2609.7	2563.9	2925.4	3480.5	5568.2	6818.3
67.5°	3258.9	3406.6	3439.7	3167.3	2080.1	1652.4	1586.2	1914.6	2513.0	3602.7	3997.3
70°	1504.7	1682.9	1851.0	1728.8	1204.3	679.8	641.6	804.6	1267.9	2072.5	2120.9
72.5°	455.7	458.3	641.6	669.6	389.5	152.8	134.9	178.2	430.3	684.9	720.5
75°	33.1	35.6	86.6	99.3	73.8	38.2	40.7	48.4	91.7	152.8	114.6
77.5°	2.5	2.5	2.5	12.7	22.9	25.5	33.1	38.2	48.4	56.0	50.9
80°	2.5	0.0	2.5	10.2	17.8	25.5	30.6	35.6	38.2	43.3	38.2
82.5°	0.0	0.0	0.0	7.6	17.8	25.5	28.0	38.2	43.3	50.9	43.3
85°	0.0	0.0	0.0	7.6	17.8	28.0	25.5	12.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7
2.5°	6940.5	6841.2	6614.6	6500.1	6230.2	6192.0	5927.2	5883.9	5794.8	5746.4	5629.3
5°	6349.8	6230.2	5861.0	5550.4	5188.8	4936.8	4743.3	4567.6	4465.8	4371.6	4414.9
7.5°	5868.6	5519.8	5109.9	4590.5	4173.0	3903.1	3607.8	3365.9	3223.3	3126.5	3149.5
10°	5364.5	5137.9	4567.6	3984.6	3480.5	3289.5	3057.8	2871.9	2670.8	2497.7	2416.2
12.5°	5206.7	4870.6	4155.2	3561.9	3180.0	2994.2	2729.4	2515.5	2258.3	2047.0	1973.2
15°	5234.7	4911.3	4043.1	3409.2	2958.5	2637.7	2322.0	2057.2	1774.6	1626.9	1550.5
17.5°	5690.4	5130.3	4117.0	3248.8	2650.4	2204.9	1815.3	1479.3	1267.9	1115.2	1082.1
20°	6250.6	5603.9	4274.8	3131.6	2398.4	1754.2	1326.5	1036.2	860.6	835.1	827.5
22.5°	7070.4	6377.9	4613.4	3052.7	2090.3	1367.2	908.9	753.6	705.3	700.2	702.7
25°	8216.1	7347.9	4982.6	2986.5	1858.6	1054.1	743.4	639.1	623.8	616.1	628.9
27.5°	8712.6	7933.5	5178.7	2843.9	1647.3	949.7	733.3	634.0	590.7	578.0	585.6
30°	9326.2	8323.0	5486.7	2599.5	1336.7	781.6	684.9	690.0	669.6	606.0	585.6
32.5°	10140.9	8809.3	5642.0	2426.4	1194.1	646.7	501.6	460.8	514.3	524.5	542.3
35°	10662.9	9303.3	5721.0	2324.5	1120.3	552.5	425.2	387.0	374.3	376.8	387.0
37.5°	11632.9	9970.3	5820.3	2217.6	1064.2	481.2	384.5	348.8	331.0	331.0	341.2
40°	12213.4	10499.9	5955.2	2159.1	1008.2	437.9	348.8	318.3	303.0	303.0	308.1
42.5°	12358.5	10762.2	5909.4	2138.7	944.6	427.7	318.3	295.3	277.5	275.0	272.4
45°	12618.2	11161.9	5917.0	2115.8	878.4	389.5	300.4	275.0	249.5	247.0	244.4
47.5°	12903.4	11449.6	5932.3	2026.7	814.7	325.9	313.2	254.6	224.1	219.0	219.0
50°	12659.0	11678.7	6064.7	1937.5	733.3	264.8	308.1	239.3	198.6	191.0	193.5
52.5°	12689.5	11948.6	6344.8	1812.8	631.4	211.3	249.5	226.6	180.8	168.0	170.6
55°	12200.7	11663.5	6382.9	1680.4	493.9	162.9	191.0	198.6	152.8	147.7	147.7
57.5°	10502.5	9876.1	5631.9	1362.1	325.9	134.9	137.5	173.1	132.4	127.3	129.8
60°	8987.6	7928.4	4532.0	898.8	203.7	106.9	99.3	175.7	117.1	114.6	122.2
62.5°	8193.2	6515.3	3437.2	557.6	140.0	81.5	68.7	142.6	101.8	101.8	112.0
65°	5919.6	4376.7	1998.6	292.8	99.3	63.7	50.9	81.5	84.0	86.6	91.7
67.5°	3666.3	2210.0	842.7	142.6	66.2	43.3	33.1	50.9	56.0	56.0	61.1
70°	1810.2	880.9	280.1	81.5	50.9	35.6	22.9	28.0	28.0	25.5	28.0
72.5°	560.1	264.8	71.3	50.9	35.6	22.9	12.7	10.2	5.1	0.0	2.5
75°	63.7	50.9	45.8	35.6	22.9	10.2	2.5	0.0	0.0	0.0	0.0
77.5°	38.2	43.3	43.3	35.6	22.9	7.6	0.0	0.0	0.0	0.0	0.0
80°	30.6	33.1	35.6	33.1	20.4	10.2	0.0	0.0	0.0	0.0	0.0
82.5°	38.2	43.3	48.4	43.3	28.0	12.7	5.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.6	2.5	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°	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7
2.5°	5580.9	5524.9	5603.9	5486.7	5484.2	5486.7	5453.6	5423.1	5471.5	5601.3	5614.0
5°	4259.5	4379.2	4417.4	4542.2	4473.4	4371.6	4391.9	4323.2	4491.2	4565.1	4506.5
7.5°	3101.1	3093.5	3350.6	3365.9	3399.0	3401.5	3396.4	3261.5	3124.0	3154.6	3246.2
10°	2406.0	2276.2	2400.9	2388.2	2469.7	2446.8	2479.9	2334.7	2383.1	2383.1	2441.7
12.5°	1960.5	1823.0	1800.1	1767.0	1800.1	1812.8	1825.5	1797.5	1879.0	1917.2	1957.9
15°	1497.1	1420.7	1400.3	1336.7	1346.9	1382.5	1413.1	1425.8	1400.3	1458.9	1464.0
17.5°	1087.2	1084.6	1097.3	1094.8	1084.6	1077.0	1074.4	1041.3	1031.2	1036.2	1056.6
20°	824.9	845.3	888.6	931.9	954.8	926.8	888.6	832.6	809.6	814.7	817.3
22.5°	705.3	735.8	794.4	842.7	865.7	814.7	746.0	697.6	687.4	684.9	682.3
25°	639.1	674.7	718.0	733.3	730.7	700.2	649.2	628.9	623.8	618.7	595.8
27.5°	603.4	616.1	623.8	641.6	649.2	628.9	616.1	585.6	580.5	580.5	565.2
30°	583.0	575.4	585.6	572.9	583.0	567.8	570.3	570.3	557.6	562.7	562.7
32.5°	542.3	544.9	544.9	519.4	527.0	509.2	527.0	542.3	544.9	547.4	567.8
35°	397.2	443.0	465.9	465.9	473.6	460.8	458.3	440.5	417.6	394.6	384.5
37.5°	348.8	366.6	397.2	415.0	427.7	417.6	394.6	366.6	353.9	343.7	333.5
40°	310.6	325.9	346.3	366.6	392.1	379.4	343.7	331.0	315.7	315.7	305.5
42.5°	280.1	287.7	300.4	331.0	359.0	333.5	308.1	297.9	290.2	287.7	285.2
45°	252.1	254.6	267.3	292.8	325.9	300.4	275.0	262.2	264.8	267.3	264.8
47.5°	226.6	231.7	239.3	269.9	290.2	277.5	249.5	241.9	241.9	241.9	244.4
50°	196.0	208.8	224.1	249.5	264.8	257.2	234.2	224.1	219.0	219.0	221.5
52.5°	175.7	185.9	206.2	236.8	257.2	244.4	221.5	206.2	196.0	193.5	198.6
55°	152.8	170.6	203.7	226.6	254.6	241.9	216.4	198.6	180.8	178.2	178.2
57.5°	137.5	165.5	196.0	224.1	247.0	236.8	216.4	193.5	170.6	168.0	168.0
60°	129.8	160.4	191.0	216.4	247.0	231.7	213.9	188.4	162.9	162.9	160.4
62.5°	122.2	150.2	180.8	206.2	236.8	224.1	206.2	180.8	155.3	155.3	150.2
65°	101.8	129.8	150.2	173.1	206.2	193.5	175.7	157.9	137.5	132.4	134.9
67.5°	71.3	89.1	109.5	132.4	152.8	147.7	140.0	127.3	109.5	106.9	104.4
70°	35.6	48.4	66.2	89.1	106.9	101.8	96.7	86.6	76.4	73.8	73.8
72.5°	5.1	15.3	28.0	40.7	56.0	58.6	56.0	53.5	50.9	48.4	50.9
75°	0.0	0.0	0.0	10.2	22.9	28.0	33.1	38.2	38.2	33.1	40.7
77.5°	0.0	0.0	0.0	0.0	2.5	12.7	25.5	33.1	40.7	35.6	48.4
80°	0.0	0.0	0.0	0.0	2.5	15.3	25.5	35.6	40.7	35.6	50.9
82.5°	0.0	0.0	0.0	0.0	2.5	17.8	25.5	33.1	38.2	35.6	45.8
85°	0.0	0.0	0.0	0.0	7.6	15.3	10.2	5.1	2.5	2.5	7.6
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-SA7A-722-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7
2.5°	5685.3	5866.1	6059.6	6133.4	6362.6	6535.7	6652.8	6904.9	6943.1	6945.6
5°	4567.6	4659.3	4990.3	5145.6	5486.7	5751.5	6034.1	6441.5	6713.9	6734.3
7.5°	3246.2	3500.8	3640.9	4045.7	4465.8	4880.8	5300.9	5774.4	6090.2	6097.8
10°	2612.2	2777.7	3027.3	3330.2	3684.1	4106.8	4666.9	5216.9	5537.7	5616.6
12.5°	2103.0	2393.3	2678.4	2991.6	3261.5	3579.7	4183.2	4916.4	5181.2	5339.1
15°	1619.3	1884.1	2220.2	2586.8	2892.3	3317.5	4004.9	4842.6	5288.1	5341.6
17.5°	1194.1	1430.9	1741.5	2087.8	2546.0	3149.5	4035.5	5216.9	5637.0	5726.1
20°	858.0	995.5	1239.9	1642.2	2225.2	2953.4	4066.0	5596.2	6235.3	6388.0
22.5°	679.8	735.8	896.2	1252.7	1866.3	2747.2	4282.5	6321.8	7057.7	7279.2
25°	590.7	621.2	697.6	987.9	1639.7	2726.8	4628.7	7192.6	8152.5	8312.9
27.5°	570.3	575.4	641.6	906.4	1517.4	2591.9	4761.1	7811.3	8834.8	8997.7
30°	600.9	682.3	687.4	766.4	1290.8	2324.5	4829.9	8409.6	9412.7	9532.4
32.5°	519.4	493.9	511.8	593.2	1135.5	2169.2	4959.7	8931.5	10072.2	10156.2
35°	361.5	379.4	420.1	514.3	993.0	2006.3	4992.8	9507.0	10698.5	10785.1
37.5°	333.5	343.7	376.8	437.9	873.3	1914.6	4947.0	9927.0	11347.7	11467.4
40°	310.6	323.3	341.2	397.2	784.2	1812.8	4883.3	10306.4	11744.9	12040.3
42.5°	292.8	303.0	318.3	379.4	707.8	1710.9	4794.2	10841.1	12101.4	12358.5
45°	272.4	287.7	305.5	369.2	664.5	1642.2	4728.0	10808.0	12307.6	12445.1
47.5°	252.1	277.5	297.9	343.7	651.8	1609.1	4756.0	10683.2	12139.6	12045.4
50°	231.7	264.8	300.4	285.2	621.2	1542.9	4789.1	10853.8	11739.8	11722.0
52.5°	213.9	252.1	280.1	234.2	552.5	1479.3	5109.9	11077.9	12022.4	11785.7
55°	188.4	226.6	224.1	188.4	448.1	1430.9	5362.0	11083.0	11831.5	11920.6
57.5°	170.6	201.1	175.7	157.9	331.0	1196.6	4952.1	9293.1	10128.2	10286.0
60°	157.9	196.0	132.4	124.8	216.4	863.1	4323.2	7197.7	8050.6	8348.5
62.5°	145.1	185.9	104.4	101.8	150.2	613.6	3554.3	6024.0	6938.0	7342.8
65°	127.3	132.4	84.0	78.9	106.9	331.0	2164.1	4147.5	5186.3	5336.5
67.5°	104.4	101.8	68.7	63.7	71.3	160.4	954.8	2077.6	3006.9	3258.9
70°	84.0	84.0	58.6	50.9	50.9	73.8	249.5	827.5	1359.6	1504.7
72.5°	61.1	63.7	45.8	40.7	38.2	35.6	40.7	165.5	356.4	455.7
75°	53.5	56.0	45.8	35.6	28.0	22.9	17.8	15.3	20.4	33.1
77.5°	58.6	58.6	48.4	33.1	25.5	17.8	10.2	5.1	5.1	2.5
80°	73.8	76.4	63.7	43.3	30.6	20.4	12.7	5.1	2.5	2.5
82.5°	78.9	86.6	71.3	53.5	38.2	22.9	12.7	2.5	0.0	0.0
85°	20.4	33.1	56.0	48.4	38.2	22.9	12.7	2.5	0.0	0.0
87.5°	0.0	2.5	7.6	7.6	10.2	10.2	7.6	2.5	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

(END OF REPORT)