

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: P454147

Luminaire Tested: **GALN-SA5B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20542 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

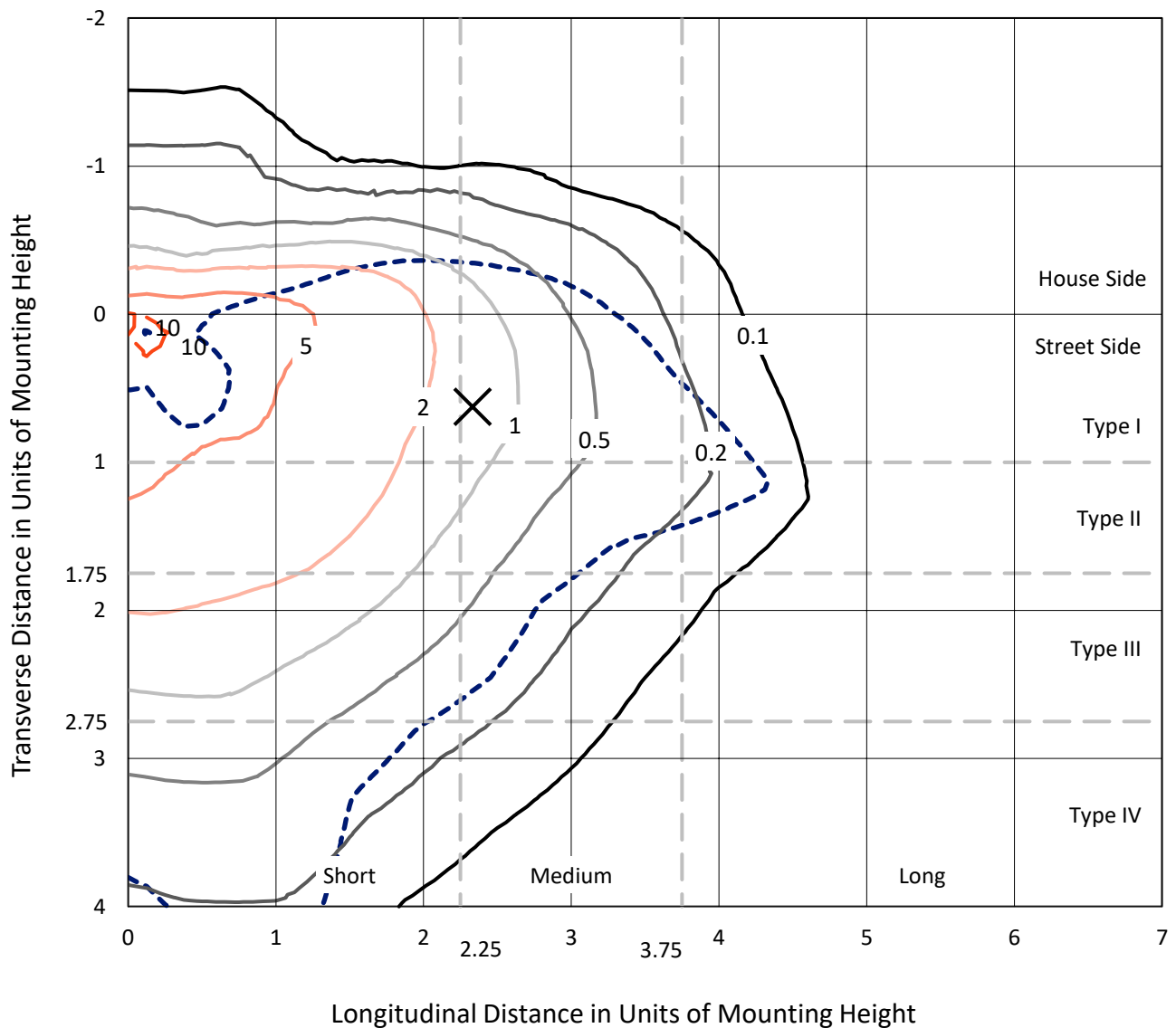
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

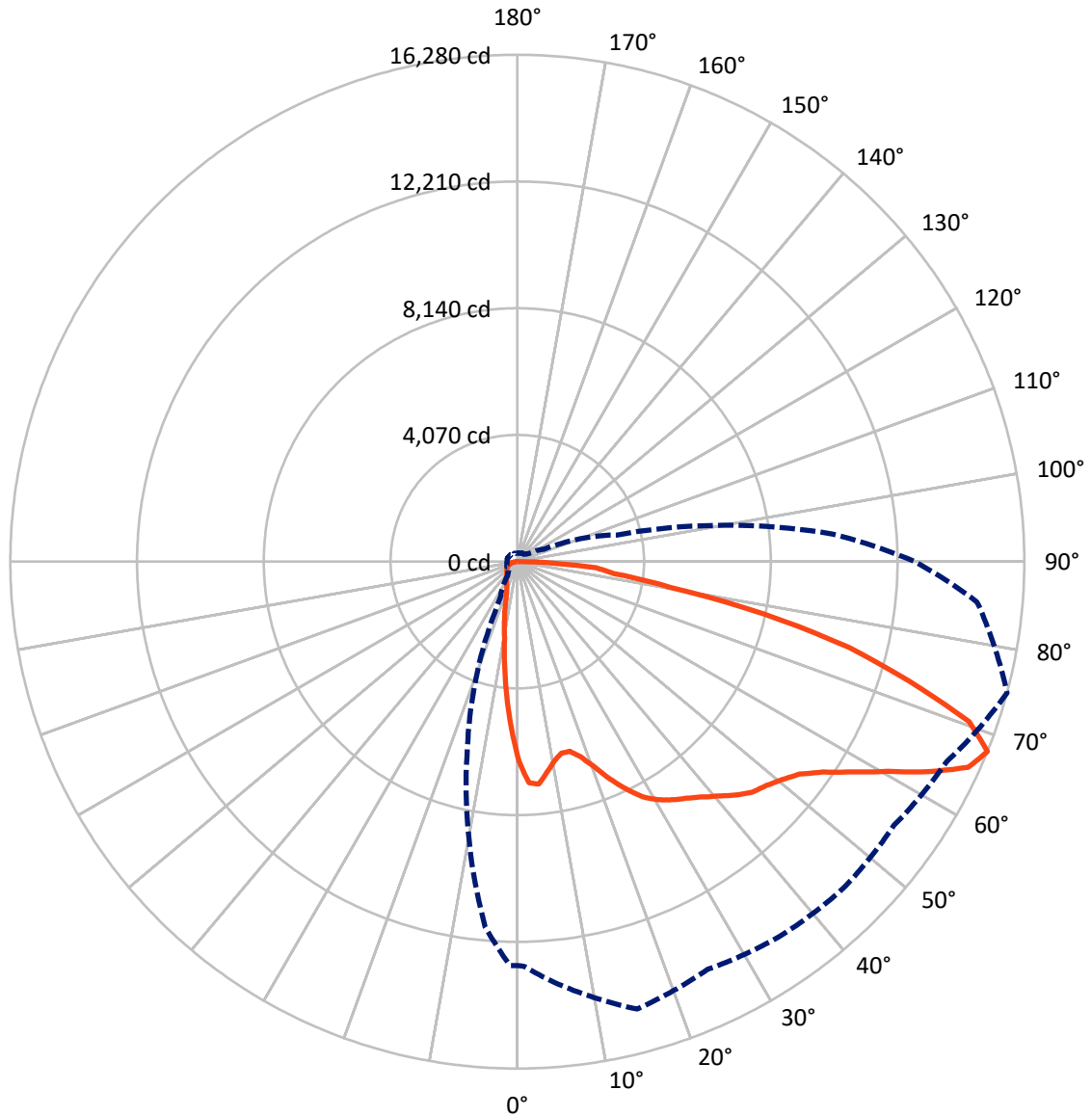
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3472.0	0.0	3472.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	17070.0	0.0	17070.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	20542.0	0.0	20542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.8	2.4
10°-20°	1015.2	4.9
20°-30°	1460.9	7.1
30°-40°	2104.0	10.2
40°-50°	2955.6	14.4
50°-60°	4122.0	20.1
60°-70°	4900.8	23.9
70°-80°	2886.3	14.1
80°-90°	610.3	3.0
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°	20542.0	100.0
0°-180°	20542.0	100.0

Coefficient of Utilization



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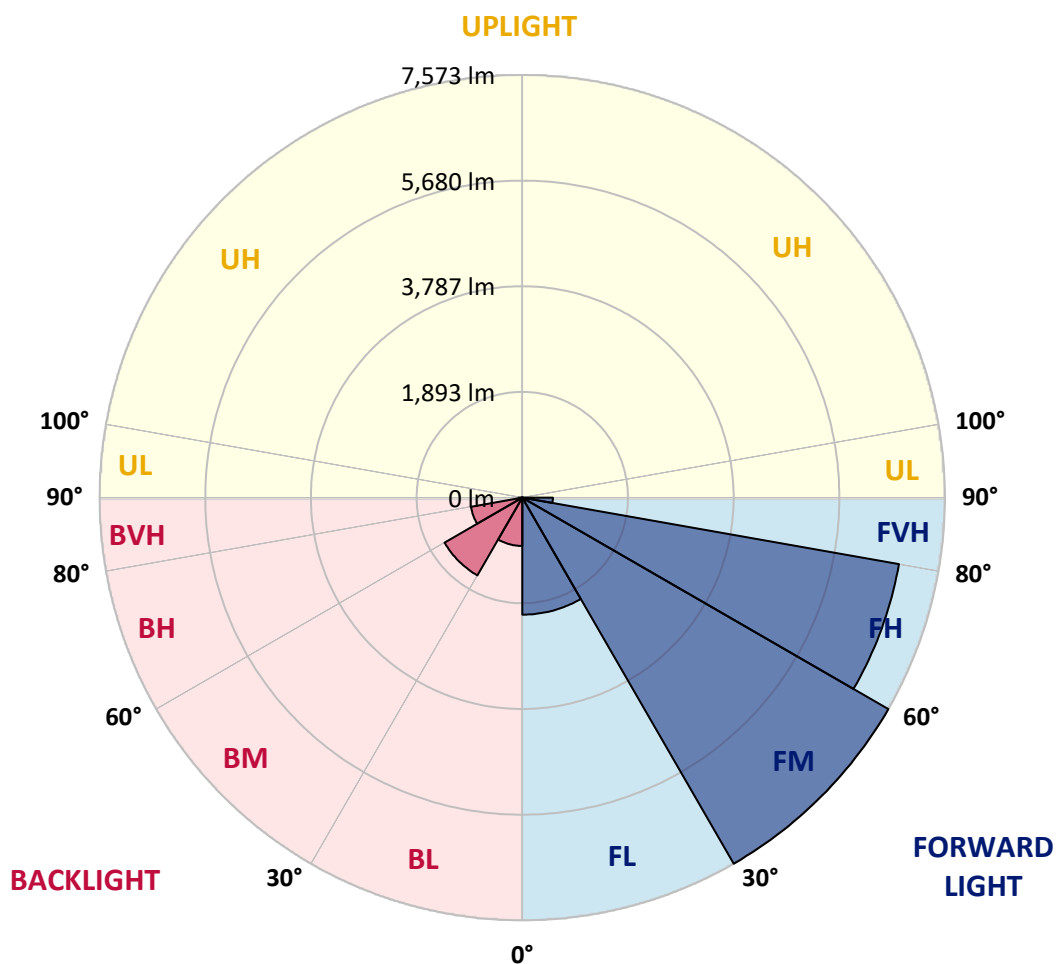
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2096.8	10.2			
FM	(30°-60°)	7573.1	36.9			
FH	(60°-80°)	6852.9	33.4			G3/7500
FVH	(80°-90°)	547.2	2.7			G4/750
BL	(0°-30°)	866.0	4.2	B2/1000		
BM	(30°-60°)	1608.6	7.8	B2/2500		
BH	(60°-80°)	934.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	63.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8
2.5°	6919.7	6928.9	6988.2	7160.8	7279.3	7322.8	7353.1	7296.4	7241.1	7106.7	6903.9
5°	6898.6	6952.6	7106.7	7494.0	7799.6	7931.4	7970.9	7801.0	7520.4	7175.2	6760.3
7.5°	6495.5	6568.0	6805.1	7454.5	7993.3	8301.5	8260.7	7953.8	7447.9	6832.8	6253.1
10°	6017.4	6097.7	6383.6	7168.7	7862.9	8287.0	8287.0	7912.9	7241.1	6510.0	5842.2
12.5°	5638.0	5722.3	6049.0	6874.9	7591.5	7993.3	8060.5	7739.0	7092.3	6305.8	5572.1
15°	5512.8	5594.5	5946.2	6697.1	7304.3	7549.4	7571.7	7466.4	7019.8	6320.3	5560.3
17.5°	5668.3	5773.7	6129.3	6749.8	7040.9	7055.4	7072.5	7155.5	7027.7	6585.1	5800.0
20°	6117.5	6230.8	6602.2	6919.7	6810.4	6660.2	6669.4	6882.8	7121.2	7022.4	6373.0
22.5°	6765.6	6864.4	7245.1	7218.7	6712.9	6403.3	6338.8	6636.5	7259.6	7567.8	6982.9
25°	7465.0	7581.0	8018.3	7662.6	6740.5	6250.5	6209.7	6491.6	7403.1	8077.6	7687.7
27.5°	8266.0	8379.2	8724.4	8110.5	6885.4	6238.7	6189.9	6478.4	7532.2	8549.2	8360.8
30°	8861.4	8965.4	9199.9	8487.3	7063.3	6317.7	6257.1	6582.5	7642.9	8871.9	9016.8
32.5°	9329.0	9437.0	9564.8	8721.7	7297.8	6461.3	6349.3	6772.2	7787.8	9118.2	9502.9
35°	9816.4	9944.2	9935.0	8929.9	7516.4	6627.3	6517.9	7046.2	8015.7	9333.0	10119.4
37.5°	10434.2	10485.6	10419.7	9116.9	7778.6	6926.3	6865.7	7453.2	8339.7	9592.5	10839.9
40°	11061.2	11164.0	10825.4	9343.5	8097.3	7488.8	7482.2	8055.2	8724.4	9896.8	11538.1
42.5°	11598.7	11685.6	11204.8	9541.1	8483.3	8175.1	8225.1	8862.7	9228.9	10249.8	12099.3
45°	12003.1	12080.8	11555.2	9732.1	8991.8	8968.1	9263.1	9728.1	9865.1	10567.3	12428.6
47.5°	12346.9	12422.0	11798.9	10021.9	9620.1	9915.2	10428.9	10630.5	10409.2	10749.0	12797.4
50°	12636.7	12659.1	11966.2	10367.0	10400.0	11075.7	11573.7	11704.1	10946.6	11009.9	13117.5
52.5°	12938.4	12909.4	12254.7	10801.7	11243.0	12177.0	12539.2	12674.9	11461.7	11331.3	13583.8
55°	13614.1	13641.8	12901.5	11349.7	12095.3	13258.5	13735.3	13604.9	12032.1	11922.7	14176.6
57.5°	14430.8	14407.1	13811.7	12207.3	12963.4	14264.9	14620.5	14411.1	12793.5	12735.5	14777.3
60°	14748.3	14779.9	14573.1	13129.4	13819.6	15146.1	15509.7	15184.3	13706.3	13680.0	15230.4
62.5°	14429.5	14607.4	14747.0	13950.0	14549.4	15794.2	16155.2	15783.7	14658.7	14849.7	15547.9
65°	13794.6	13832.8	14308.3	14645.6	14901.1	15900.9	16089.3	15891.7	15454.4	15915.4	15533.4
67.5°	12970.0	13002.9	13560.1	14873.5	14448.0	14689.0	14820.8	14762.8	15208.0	16280.3	14818.1
70°	12184.9	12158.5	12747.4	14292.5	12577.4	12211.2	12320.6	12138.8	13122.8	15388.5	13415.2
72.5°	10656.8	10751.7	11384.0	12677.5	9958.7	9363.3	9601.7	9131.4	10093.0	13179.4	10888.7
75°	8347.6	8370.0	9425.2	10639.7	7512.5	6573.2	6896.0	6699.7	7731.1	10994.1	7519.1
77.5°	5780.2	5730.2	6864.4	8126.3	5357.4	4812.0	4817.3	4723.8	5398.2	8094.7	5108.4
80°	3671.3	3594.9	4297.0	5020.2	3681.8	3938.7	3809.6	3805.6	3514.5	4993.8	3089.0
82.5°	1983.8	2068.1	2714.9	3147.0	2641.2	3044.2	2790.0	2708.3	2411.9	3125.9	1975.9
85°	903.7	982.7	1447.7	2140.6	2006.2	2028.6	1355.5	1599.2	1995.7	2538.4	1055.1
87.5°	88.3	113.3	299.0	1010.4	685.0	540.1	201.5	388.6	501.9	902.3	84.3
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°	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8
2.5°	6820.9	6752.4	6519.2	6326.9	6122.7	5967.3	5764.4	5628.8	5535.2	5394.3	5377.2
5°	6507.4	6340.1	5934.4	5520.7	5163.8	4895.0	4622.3	4372.1	4224.5	4178.4	4119.1
7.5°	5979.2	5697.3	5175.6	4701.4	4291.7	3891.3	3583.0	3364.3	3218.1	3132.5	3029.8
10°	5544.4	5217.8	4582.8	4001.9	3664.7	3415.7	3144.4	2909.9	2729.4	2575.3	2491.0
12.5°	5252.0	4883.2	4169.2	3697.6	3436.8	3172.0	2854.6	2591.1	2325.0	2149.8	2074.7
15°	5163.8	4773.8	4041.4	3546.1	3172.0	2825.6	2469.9	2126.1	1862.6	1696.7	1641.3
17.5°	5379.8	4908.2	4040.1	3344.6	2861.1	2447.5	1991.7	1669.0	1399.0	1275.1	1235.6
20°	5782.9	5166.4	4052.0	3145.7	2523.9	1941.7	1449.0	1184.2	1055.1	1002.5	982.7
22.5°	6345.4	5560.3	4087.5	2949.4	2155.1	1491.2	1085.4	951.1	905.0	895.8	891.8
25°	7038.2	6047.7	4207.4	2772.9	1844.2	1138.1	907.6	847.0	820.7	811.4	810.1
27.5°	7675.8	6677.3	4352.3	2621.4	1543.9	981.4	820.7	769.3	742.9	741.6	744.3
30°	8251.5	7204.2	4473.5	2451.5	1316.0	872.0	764.0	712.7	687.6	686.3	694.2
32.5°	8749.4	7637.6	4563.1	2284.2	1189.5	804.9	712.7	657.3	636.2	632.3	636.2
35°	9281.6	8069.7	4522.2	2153.8	1117.1	749.5	674.4	620.4	595.4	583.6	583.6
37.5°	9888.8	8514.9	4452.4	2045.7	1084.1	703.4	641.5	588.8	563.8	551.9	550.6
40°	10551.4	8960.2	4356.3	1949.6	1051.2	675.8	619.1	563.8	533.5	521.6	519.0
42.5°	11136.3	9340.9	4277.2	1886.4	997.2	681.0	599.4	545.4	507.2	491.3	490.0
45°	11644.8	9724.2	4262.7	1849.5	952.4	673.1	594.1	530.9	486.1	469.0	466.3
47.5°	12042.6	10123.3	4345.7	1828.4	903.7	631.0	628.3	521.6	467.6	449.2	446.6
50°	12527.4	10689.8	4535.4	1784.9	858.9	591.5	663.9	520.3	453.1	429.4	422.8
52.5°	13172.8	11427.4	4792.3	1707.2	794.3	554.6	633.6	520.3	436.0	412.3	404.4
55°	14148.9	12368.0	5043.9	1597.9	703.4	505.8	571.7	504.5	411.0	389.9	384.6
57.5°	14795.7	13055.6	5204.6	1446.4	590.1	470.3	492.7	479.5	386.0	363.6	363.6
60°	14828.7	13240.0	5128.2	1255.4	519.0	437.3	428.1	483.4	363.6	339.9	337.2
62.5°	14449.3	12788.2	4730.4	1084.1	480.8	401.8	387.3	424.2	341.2	317.5	313.5
65°	13856.5	11635.6	4040.1	1002.5	459.7	370.2	349.1	347.8	317.5	295.1	289.8
67.5°	12767.1	10168.1	3319.6	955.0	449.2	334.6	314.8	308.2	289.8	271.4	268.7
70°	11161.3	8516.2	2662.2	935.3	443.9	297.7	281.9	274.0	258.2	243.7	242.4
72.5°	8683.5	6907.8	2197.2	922.1	441.3	263.5	246.3	235.8	226.6	213.4	213.4
75°	6237.3	5082.1	1676.9	831.2	408.4	226.6	208.1	201.5	188.4	177.8	180.5
77.5°	3932.1	3422.3	1103.9	611.2	316.1	181.8	166.0	162.0	151.5	137.0	146.2
80°	2655.6	2406.7	644.2	384.6	198.9	133.0	127.8	126.5	114.6	98.8	100.1
82.5°	1807.3	1773.1	334.6	218.7	114.6	77.7	75.1	77.7	64.5	52.7	52.7
85°	706.1	964.3	158.1	85.6	36.9	11.9	17.1	18.4	10.5	5.3	6.6
87.5°	13.2	98.8	4.0	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°	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8
2.5°	5350.8	5339.0	5358.7	5274.4	5291.5	5323.1	5339.0	5348.2	5478.6	5448.3	5531.3
5°	4174.5	4162.6	4239.0	4249.6	4289.1	4281.2	4319.4	4328.6	4376.0	4393.1	4509.1
7.5°	3036.3	3087.7	3174.7	3219.4	3286.6	3307.7	3287.9	3336.7	3237.9	3309.0	3330.1
10°	2439.6	2377.7	2340.8	2443.6	2456.7	2554.2	2514.7	2483.1	2541.0	2543.7	2599.0
12.5°	2031.3	1898.2	1809.9	1838.9	1870.5	1912.7	1919.3	1982.5	2024.7	2064.2	2097.1
15°	1592.6	1546.5	1466.1	1426.6	1471.4	1488.5	1529.4	1582.1	1626.8	1638.7	1683.5
17.5°	1222.4	1230.3	1217.2	1193.5	1221.1	1234.3	1236.9	1238.2	1250.1	1242.2	1308.1
20°	984.0	1011.7	1044.6	1049.9	1059.1	1065.7	1053.8	1009.0	1010.4	1038.0	1059.1
22.5°	890.5	895.8	932.6	944.5	973.5	961.6	927.4	906.3	903.7	910.2	920.8
25°	816.7	824.6	851.0	869.4	891.8	870.7	845.7	825.9	823.3	829.9	840.4
27.5°	750.9	762.7	786.4	804.9	825.9	806.2	782.5	765.3	764.0	762.7	769.3
30°	698.2	711.3	728.5	749.5	764.0	746.9	724.5	715.3	714.0	711.3	714.0
32.5°	645.5	666.5	683.7	694.2	708.7	695.5	678.4	673.1	663.9	656.0	652.1
35°	586.2	608.6	634.9	648.1	662.6	649.4	637.6	615.2	599.4	598.0	600.7
37.5°	551.9	561.2	582.2	604.6	619.1	612.5	590.1	567.7	563.8	563.8	566.4
40°	521.6	525.6	534.8	563.8	590.1	570.4	542.7	536.1	536.1	534.8	536.1
42.5°	491.3	495.3	495.3	517.7	559.8	528.2	507.2	507.2	507.2	508.5	512.4
45°	463.7	465.0	463.7	479.5	519.0	492.7	478.2	482.1	484.8	487.4	490.0
47.5°	440.0	441.3	440.0	453.1	472.9	462.4	454.5	459.7	465.0	469.0	471.6
50°	418.9	417.6	420.2	428.1	437.3	440.0	434.7	442.6	445.2	450.5	457.1
52.5°	400.5	399.1	401.8	405.7	418.9	418.9	418.9	425.5	430.8	436.0	445.2
55°	379.4	380.7	384.6	389.9	407.0	404.4	405.7	411.0	416.3	424.2	429.4
57.5°	359.6	362.3	367.5	375.4	392.6	391.2	392.6	395.2	401.8	405.7	411.0
60°	337.2	342.5	349.1	354.3	371.5	370.2	376.7	382.0	386.0	386.0	388.6
62.5°	314.8	322.7	329.3	333.3	351.7	353.0	362.3	366.2	368.8	366.2	370.2
65°	292.4	304.3	306.9	312.2	330.6	332.0	342.5	351.7	349.1	346.4	353.0
67.5°	270.0	284.5	283.2	289.8	308.2	310.9	320.1	335.9	330.6	328.0	333.3
70°	245.0	255.6	256.9	260.8	285.9	281.9	296.4	310.9	306.9	308.2	308.2
72.5°	217.4	226.6	226.6	234.5	260.8	254.2	266.1	281.9	281.9	280.6	280.6
75°	184.4	189.7	195.0	206.8	234.5	226.6	234.5	249.0	251.6	249.0	249.0
77.5°	148.9	156.8	159.4	175.2	195.0	193.6	201.5	208.1	213.4	210.8	210.8
80°	105.4	113.3	123.8	140.9	152.8	156.8	160.7	166.0	168.6	168.6	171.2
82.5°	59.3	71.1	80.4	97.5	102.7	122.5	121.2	125.1	121.2	106.7	118.6
85°	13.2	25.0	35.6	44.8	51.4	71.1	75.1	84.3	69.8	64.5	64.5
87.5°	0.0	0.0	0.0	0.0	0.0	10.5	21.1	29.0	25.0	21.1	21.1
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-SA5B-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8	6417.8
2.5°	5601.1	5715.7	5854.0	6092.4	6259.7	6440.2	6622.0	6815.6	6867.0	6919.7
5°	4540.7	4765.9	4888.4	5208.5	5544.4	5971.2	6320.3	6702.3	6861.7	6898.6
7.5°	3439.4	3592.2	3913.7	4237.7	4654.0	5101.8	5636.7	6232.1	6417.8	6495.5
10°	2726.8	2934.9	3216.8	3564.6	3929.5	4411.6	5014.9	5710.4	5973.9	6017.4
12.5°	2321.1	2552.9	2859.8	3227.3	3572.5	3936.0	4544.6	5262.5	5544.4	5638.0
15°	1856.1	2136.6	2491.0	2878.3	3253.7	3651.5	4268.0	5078.1	5403.5	5512.8
17.5°	1458.2	1684.8	2068.1	2488.3	2933.6	3436.8	4210.0	5166.4	5566.8	5668.3
20°	1115.7	1277.8	1600.5	2044.4	2566.1	3224.7	4224.5	5499.7	5979.2	6117.5
22.5°	964.3	1047.2	1243.5	1666.4	2249.9	3040.3	4283.8	5956.8	6535.0	6765.6
25°	873.4	916.8	1027.5	1304.1	1948.3	2861.1	4419.5	6571.9	7312.2	7465.0
27.5°	795.6	827.3	895.8	1094.7	1674.3	2695.2	4577.6	7254.3	8038.1	8266.0
30°	721.9	764.0	828.6	972.2	1499.1	2543.7	4776.5	7807.5	8649.3	8861.4
32.5°	665.2	707.4	766.7	886.5	1350.2	2384.3	4895.0	8293.6	9148.5	9329.0
35°	619.1	654.7	716.6	818.0	1236.9	2263.1	4871.3	8679.6	9632.0	9816.4
37.5°	586.2	616.5	678.4	753.5	1151.3	2136.6	4859.5	9189.4	10220.8	10434.2
40°	555.9	587.5	644.2	711.3	1065.7	1987.8	4866.0	9695.2	10847.8	11061.2
42.5°	532.2	567.7	613.9	699.5	977.4	1867.9	4866.0	10135.2	11393.2	11598.7
45°	512.4	550.6	595.4	698.2	907.6	1777.0	4833.1	10513.2	11827.9	12003.1
47.5°	495.3	537.5	602.0	674.4	890.5	1711.2	4804.1	10816.2	12182.2	12346.9
50°	483.4	533.5	640.2	646.8	895.8	1691.4	4943.8	11198.2	12494.4	12636.7
52.5°	474.2	534.8	638.9	606.0	886.5	1704.6	5234.9	11795.0	12927.8	12938.4
55°	455.8	533.5	606.0	559.8	848.3	1727.0	5609.0	12661.7	13606.2	13614.1
57.5°	437.3	519.0	562.5	520.3	770.6	1727.0	6059.5	13482.4	14424.3	14430.8
60°	418.9	540.1	494.0	486.1	669.2	1695.3	6535.0	13843.3	14681.1	14748.3
62.5°	400.5	544.0	441.3	455.8	595.4	1618.9	6889.4	13444.2	14333.4	14429.5
65°	379.4	438.7	407.0	424.2	557.2	1491.2	6777.4	12713.1	13680.0	13794.6
67.5°	354.3	371.5	370.2	391.2	544.0	1302.8	6187.3	11788.4	12976.6	12970.0
70°	324.1	333.3	337.2	359.6	519.0	1156.6	5155.8	10588.3	12037.3	12184.9
72.5°	292.4	300.3	304.3	324.1	494.0	1073.6	4001.9	8935.1	10426.3	10656.8
75°	258.2	263.5	268.7	285.9	467.6	951.1	2850.6	6820.9	7985.4	8347.6
77.5°	222.6	222.6	229.2	246.3	393.9	785.1	1912.7	4784.4	5410.1	5780.2
80°	180.5	181.8	179.2	197.6	289.8	537.5	1086.8	3195.7	3600.1	3671.3
82.5°	138.3	134.4	135.7	144.9	216.0	366.2	579.6	1985.1	2023.3	1983.8
85°	86.9	86.9	84.3	94.8	138.3	191.0	316.1	1215.9	949.8	903.7
87.5°	35.6	29.0	32.9	38.2	65.9	77.7	123.8	250.3	96.2	88.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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