

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: P651242

Luminaire Tested: **GALN-SA2D-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651242
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-SA2D-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA 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: 11277.8 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

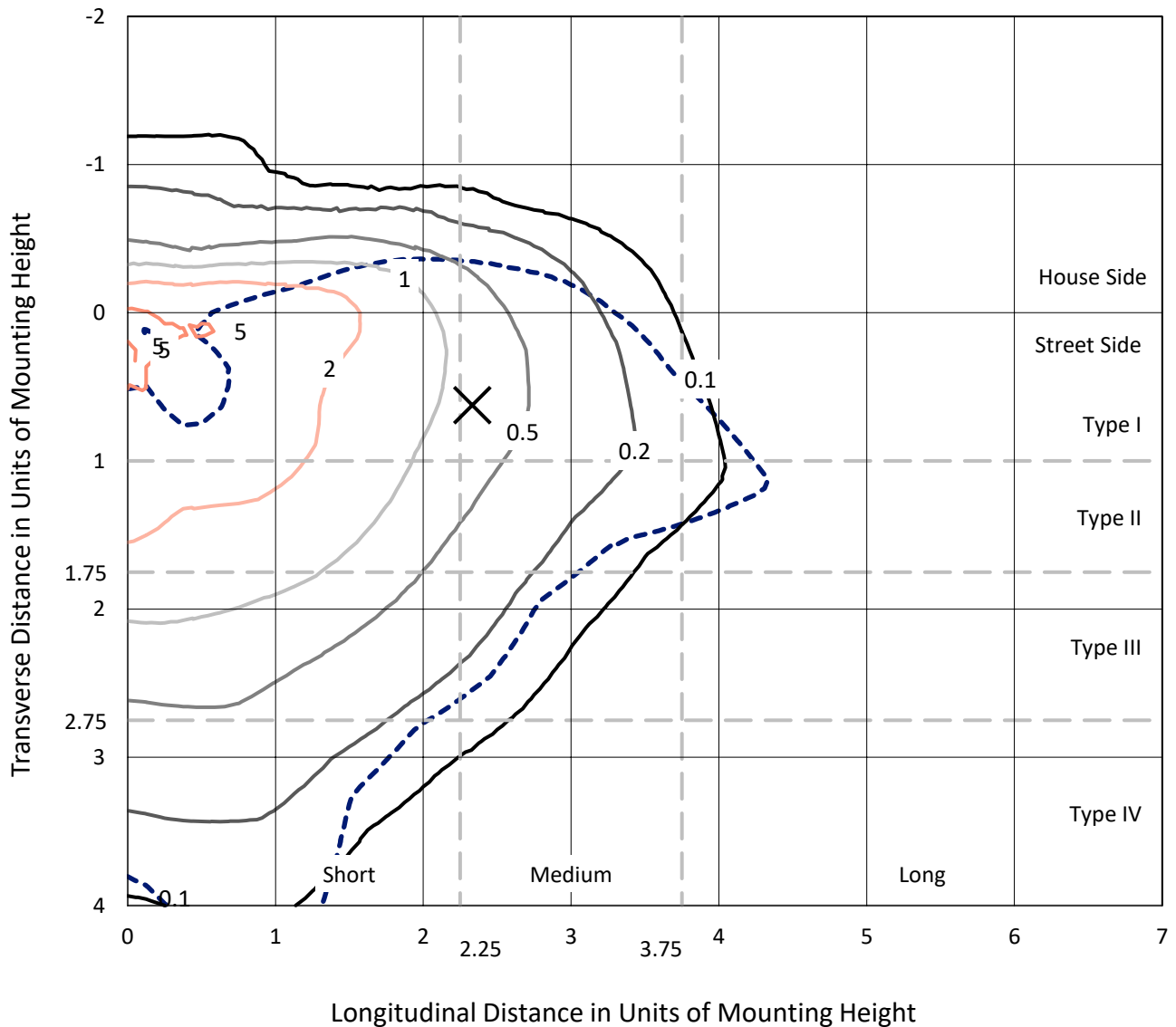
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

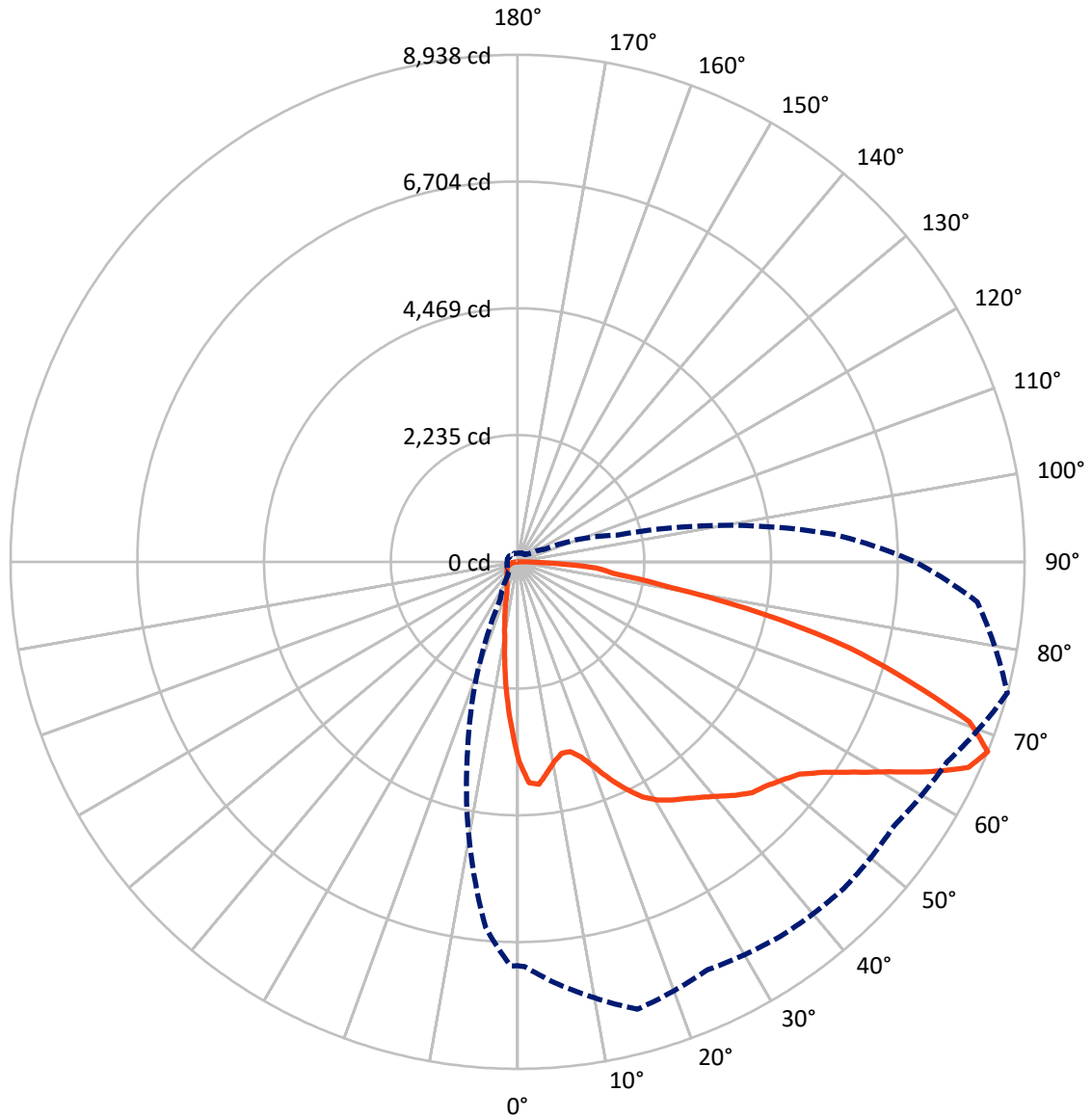
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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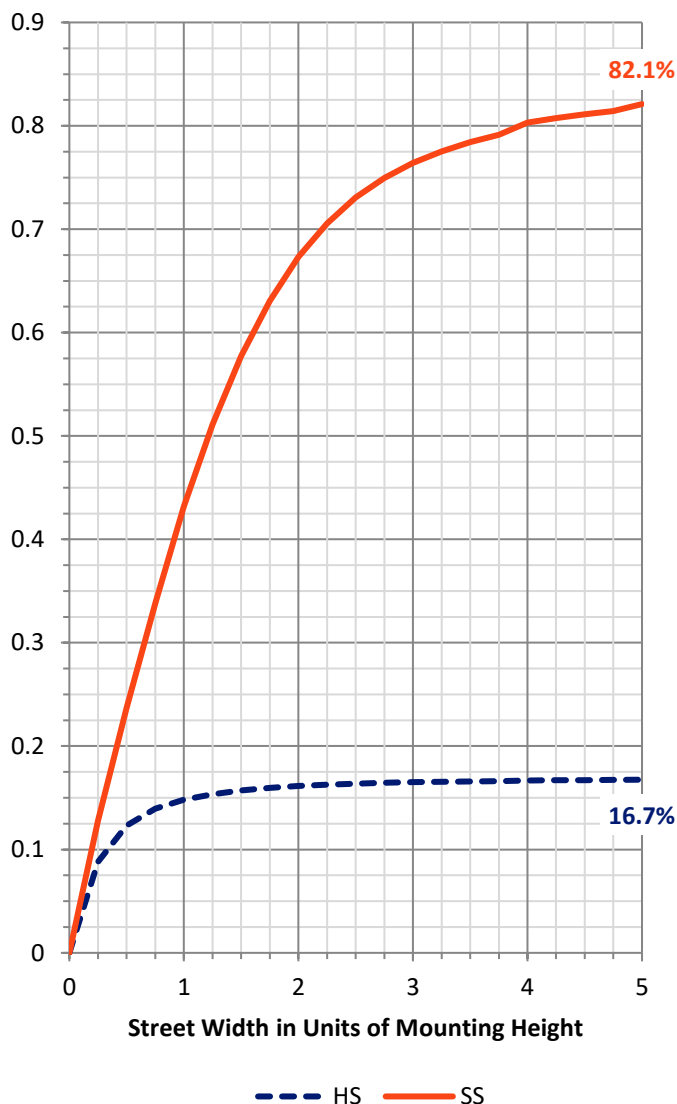
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.2	0.0	1906.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	9371.6	0.0	9371.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	11277.8	0.0	11277.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	2.4
10°-20°	557.3	4.9
20°-30°	802.0	7.1
30°-40°	1155.1	10.2
40°-50°	1622.7	14.4
50°-60°	2263.0	20.1
60°-70°	2690.6	23.9
70°-80°	1584.6	14.1
80°-90°	335.1	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°	11277.8	100.0
0°-180°	11277.8	100.0

Coefficient of Utilization

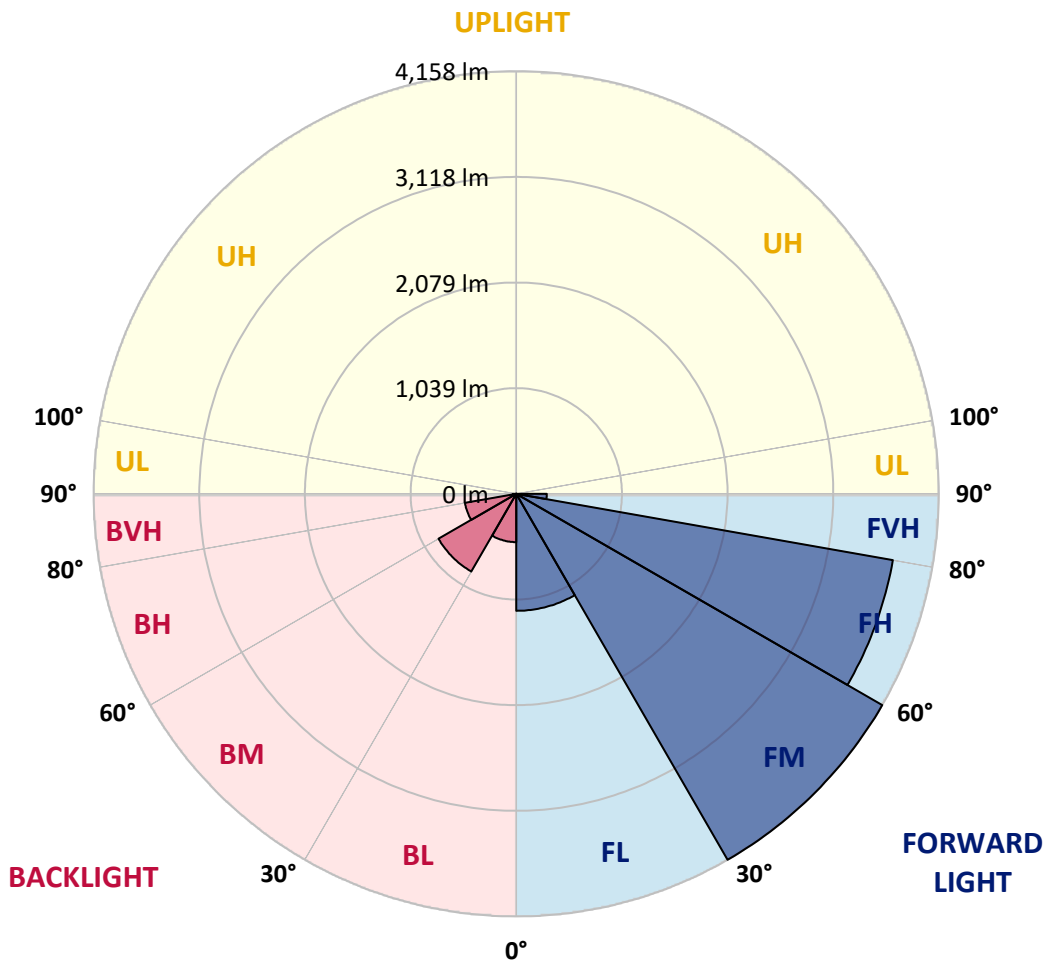


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.2	10.2			
FM (30°-60°)	4157.7	36.9			
FH (60°-80°)	3762.3	33.4			G2/5000
FVH (80°-90°)	300.4	2.7			G3/500
BL (0°-30°)	475.5	4.2	B1/500		
BM (30°-60°)	883.1	7.8	B1/1000		
BH (60°-80°)	512.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	34.7	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5
2.5°	3799.0	3804.1	3836.6	3931.3	3996.4	4020.3	4037.0	4005.9	3975.5	3901.7	3790.3
5°	3787.4	3817.0	3901.7	4114.3	4282.1	4354.4	4376.1	4282.8	4128.8	3939.3	3711.5
7.5°	3566.1	3605.9	3736.1	4092.6	4388.4	4557.6	4535.2	4366.7	4089.0	3751.3	3433.0
10°	3303.6	3347.7	3504.6	3935.7	4316.8	4549.6	4549.6	4344.3	3975.5	3574.1	3207.4
12.5°	3095.3	3141.6	3320.9	3774.4	4167.8	4388.4	4425.3	4248.8	3893.7	3462.0	3059.1
15°	3026.6	3071.4	3264.5	3676.8	4010.1	4144.7	4157.0	4099.1	3854.0	3470.0	3052.7
17.5°	3112.0	3169.8	3365.1	3705.7	3865.6	3873.5	3882.9	3928.5	3858.3	3615.3	3184.3
20°	3358.5	3420.8	3624.7	3799.0	3739.0	3656.5	3661.5	3778.8	3909.6	3855.4	3498.9
22.5°	3714.4	3768.6	3977.6	3963.1	3685.4	3515.5	3480.1	3643.5	3985.6	4154.8	3833.7
25°	4098.4	4162.0	4402.1	4206.9	3700.7	3431.6	3409.2	3564.0	4064.4	4434.7	4220.6
27.5°	4538.1	4600.3	4789.7	4452.8	3780.2	3425.1	3398.3	3556.8	4135.3	4693.6	4590.2
30°	4865.0	4922.1	5050.9	4659.6	3877.9	3468.5	3435.2	3613.9	4196.0	4870.8	4950.4
32.5°	5121.8	5181.1	5251.2	4788.3	4006.5	3547.3	3485.9	3718.0	4275.6	5006.1	5217.2
35°	5389.3	5459.4	5454.4	4902.6	4126.6	3638.4	3578.5	3868.4	4400.7	5123.9	5555.6
37.5°	5728.5	5756.7	5720.6	5005.3	4270.5	3802.6	3769.4	4091.9	4578.6	5266.3	5951.3
40°	6072.8	6129.1	5943.3	5129.7	4445.5	4111.4	4107.8	4422.4	4789.7	5433.4	6334.6
42.5°	6367.8	6415.6	6151.6	5238.2	4657.5	4488.2	4515.7	4865.7	5066.8	5627.3	6642.6
45°	6589.8	6632.5	6343.9	5343.0	4936.6	4923.6	5085.6	5340.9	5416.1	5801.6	6823.5
47.5°	6778.6	6819.8	6477.7	5502.2	5281.6	5443.5	5725.6	5836.3	5714.8	5901.4	7026.0
50°	6937.7	6950.0	6569.6	5691.6	5709.7	6080.7	6354.1	6425.7	6009.9	6044.5	7201.7
52.5°	7103.3	7087.4	6728.0	5930.3	6172.5	6685.3	6884.2	6958.7	6292.6	6221.0	7457.7
55°	7474.3	7489.5	7083.1	6231.1	6640.5	7279.0	7540.8	7469.3	6605.7	6545.8	7783.1
57.5°	7922.7	7909.7	7582.8	6701.9	7117.0	7831.6	8026.8	7911.9	7023.8	6991.9	8112.9
60°	8097.0	8114.4	8000.9	7208.2	7587.2	8315.4	8515.0	8336.4	7524.9	7510.5	8361.7
62.5°	7922.0	8019.6	8096.3	7658.7	7987.8	8671.2	8869.4	8665.4	8047.9	8152.7	8536.0
65°	7573.4	7594.4	7855.4	8040.6	8180.9	8729.8	8833.2	8724.8	8484.7	8737.7	8528.0
67.5°	7120.7	7138.7	7444.7	8165.7	7932.1	8064.4	8136.8	8105.0	8349.4	8938.1	8135.3
70°	6689.7	6675.2	6998.5	7846.8	6905.2	6704.1	6764.2	6664.3	7204.6	8448.5	7365.1
72.5°	5850.8	5902.8	6250.0	6960.1	5467.4	5140.5	5271.5	5013.3	5541.2	7235.6	5978.0
75°	4582.9	4595.2	5174.5	5841.3	4124.4	3608.8	3786.0	3678.2	4244.5	6035.9	4128.0
77.5°	3173.4	3145.9	3768.6	4461.4	2941.3	2641.8	2644.8	2593.4	2963.7	4444.1	2804.6
80°	2015.5	1973.7	2359.1	2756.1	2021.3	2162.4	2091.5	2089.4	1929.5	2741.7	1695.9
82.5°	1089.2	1135.4	1490.5	1727.8	1450.1	1671.3	1531.7	1486.9	1324.2	1716.1	1084.8
85°	496.1	539.5	794.8	1175.2	1101.5	1113.7	744.2	878.0	1095.7	1393.6	579.3
87.5°	48.4	62.2	164.2	554.7	376.1	296.5	110.7	213.4	275.5	495.4	46.3
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°	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5
2.5°	3744.7	3707.1	3579.1	3473.6	3361.5	3276.1	3164.8	3090.3	3038.9	2961.5	2952.2
5°	3572.7	3480.8	3258.0	3031.0	2834.9	2687.4	2537.7	2400.3	2319.3	2294.0	2261.4
7.5°	3282.6	3127.8	2841.5	2581.1	2356.2	2136.3	1967.1	1847.1	1766.8	1719.8	1663.3
10°	3044.0	2864.6	2516.0	2197.1	2011.9	1875.3	1726.3	1597.6	1498.5	1413.9	1367.6
12.5°	2883.5	2680.9	2288.9	2030.0	1886.9	1741.5	1567.2	1422.6	1276.5	1180.3	1139.1
15°	2834.9	2620.9	2218.8	1946.8	1741.5	1551.3	1356.0	1167.2	1022.6	931.5	901.1
17.5°	2953.6	2694.6	2218.1	1836.2	1570.8	1343.7	1093.5	916.3	768.1	700.0	678.4
20°	3174.9	2836.4	2224.6	1727.0	1385.6	1066.0	795.5	650.2	579.3	550.4	539.5
22.5°	3483.7	3052.7	2244.1	1619.3	1183.2	818.6	595.9	522.2	496.9	491.8	489.6
25°	3864.1	3320.3	2309.9	1522.4	1012.5	624.9	498.3	465.0	450.5	445.5	444.8
27.5°	4214.1	3665.9	2389.4	1439.2	847.6	538.8	450.5	422.4	407.9	407.1	408.6
30°	4530.1	3955.2	2456.0	1345.9	722.5	478.8	419.5	391.2	377.5	376.8	381.1
32.5°	4803.5	4193.1	2505.2	1254.0	653.0	441.9	391.2	360.9	349.3	347.2	349.3
35°	5095.7	4430.4	2482.8	1182.4	613.3	411.5	370.3	340.6	326.9	320.4	320.4
37.5°	5429.1	4674.8	2444.5	1123.2	595.2	386.2	352.2	323.3	309.6	303.0	302.3
40°	5792.9	4919.3	2391.6	1070.3	577.1	371.0	339.9	309.6	292.9	286.4	284.9
42.5°	6114.0	5128.2	2348.2	1035.6	547.5	373.9	329.1	299.4	278.5	269.8	269.0
45°	6393.1	5338.7	2340.3	1015.3	522.8	369.5	326.1	291.5	266.8	257.4	256.0
47.5°	6611.5	5557.8	2385.8	1003.8	496.1	346.4	345.0	286.4	256.8	246.6	245.2
50°	6877.7	5868.8	2490.0	979.9	471.5	324.7	364.5	285.7	248.8	235.7	232.1
52.5°	7232.0	6273.8	2631.0	937.3	436.1	304.4	347.8	285.7	239.3	226.4	222.0
55°	7768.0	6790.1	2769.2	877.2	386.2	277.7	313.9	277.0	225.6	214.0	211.2
57.5°	8123.1	7167.7	2857.4	794.1	324.0	258.2	270.5	263.2	211.9	199.6	199.6
60°	8141.1	7268.9	2815.4	689.2	284.9	240.1	235.1	265.4	199.6	186.6	185.1
62.5°	7932.8	7020.8	2597.0	595.2	264.0	220.6	212.6	232.9	187.3	174.3	172.2
65°	7607.4	6388.1	2218.1	550.4	252.4	203.2	191.7	190.9	174.3	162.0	159.1
67.5°	7009.3	5582.4	1822.4	524.4	246.6	183.7	172.8	169.2	159.1	148.9	147.5
70°	6127.7	4675.5	1461.6	513.5	243.7	163.4	154.7	150.5	141.7	133.8	133.0
72.5°	4767.4	3792.5	1206.3	506.3	242.3	144.7	135.2	129.4	124.4	117.2	117.2
75°	3424.4	2790.1	920.6	456.3	224.2	124.4	114.3	110.7	103.4	97.6	99.1
77.5°	2158.8	1878.9	606.0	335.6	173.6	99.8	91.2	89.0	83.2	75.2	80.3
80°	1458.0	1321.3	353.6	211.2	109.2	73.1	70.1	69.5	62.9	54.2	55.0
82.5°	992.2	973.5	183.7	120.0	62.9	42.6	41.2	42.6	35.4	28.9	28.9
85°	387.6	529.4	86.8	47.0	20.3	6.5	9.4	10.1	5.8	2.9	3.6
87.5°	7.2	54.2	2.2	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°	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5
2.5°	2937.7	2931.1	2942.0	2895.7	2905.2	2922.5	2931.1	2936.2	3007.8	2991.2	3036.8
5°	2291.8	2285.3	2327.3	2333.0	2354.7	2350.4	2371.4	2376.4	2402.5	2411.9	2475.6
7.5°	1666.9	1695.2	1742.9	1767.5	1804.4	1816.0	1805.1	1831.9	1777.6	1816.7	1828.2
10°	1339.4	1305.4	1285.1	1341.6	1348.8	1402.3	1380.6	1363.3	1395.1	1396.5	1426.9
12.5°	1115.2	1042.2	993.7	1009.6	1026.9	1050.1	1053.7	1088.4	1111.5	1133.2	1151.3
15°	874.4	849.1	804.9	783.2	807.8	817.2	839.7	868.6	893.1	899.7	924.3
17.5°	671.1	675.5	668.3	655.2	670.4	677.7	679.1	679.8	686.3	682.0	718.1
20°	540.3	555.4	573.5	576.4	581.5	585.1	578.5	554.0	554.7	569.9	581.5
22.5°	488.9	491.8	512.0	518.6	534.5	528.0	509.1	497.5	496.1	499.7	505.5
25°	448.4	452.7	467.2	477.4	489.6	478.0	464.3	453.5	452.0	455.7	461.4
27.5°	412.3	418.7	431.8	441.9	453.5	442.6	429.6	420.2	419.5	418.7	422.4
30°	383.3	390.6	399.9	411.5	419.5	410.1	397.8	392.7	392.0	390.6	392.0
32.5°	354.4	365.9	375.3	381.1	389.0	381.8	372.5	369.5	364.5	360.1	358.0
35°	321.9	334.1	348.6	355.8	363.7	356.5	350.0	337.7	329.1	328.3	329.8
37.5°	303.0	308.1	319.7	331.9	339.9	336.3	324.0	311.7	309.6	309.6	311.0
40°	286.4	288.5	293.6	309.6	324.0	313.2	298.0	294.3	294.3	293.6	294.3
42.5°	269.8	271.9	271.9	284.3	307.4	290.0	278.5	278.5	278.5	279.1	281.3
45°	254.6	255.3	254.6	263.2	284.9	270.5	262.6	264.7	266.2	267.6	269.0
47.5°	241.5	242.3	241.5	248.8	259.6	253.8	249.5	252.4	255.3	257.4	258.9
50°	230.0	229.3	230.7	235.1	240.1	241.5	238.7	243.0	244.5	247.3	251.0
52.5°	219.8	219.2	220.6	222.8	230.0	230.0	230.0	233.6	236.5	239.3	244.5
55°	208.3	209.0	211.2	214.0	223.5	222.0	222.8	225.6	228.5	232.9	235.7
57.5°	197.5	198.9	201.8	206.1	215.5	214.8	215.5	217.0	220.6	222.8	225.6
60°	185.1	188.0	191.7	194.5	203.9	203.2	206.8	209.7	211.9	211.9	213.4
62.5°	172.8	177.2	180.8	183.0	193.1	193.9	198.9	201.1	202.5	201.1	203.2
65°	160.5	167.0	168.5	171.4	181.5	182.2	188.0	193.1	191.7	190.2	193.9
67.5°	148.3	156.2	155.5	159.1	169.2	170.6	175.8	184.4	181.5	180.1	183.0
70°	134.5	140.3	141.0	143.2	156.9	154.7	162.7	170.6	168.5	169.2	169.2
72.5°	119.3	124.4	124.4	128.8	143.2	139.6	146.1	154.7	154.7	154.1	154.1
75°	101.3	104.1	107.1	113.5	128.8	124.4	128.8	136.7	138.1	136.7	136.7
77.5°	81.7	86.0	87.5	96.2	107.1	106.3	110.7	114.3	117.2	115.7	115.7
80°	57.9	62.2	68.0	77.4	83.9	86.0	88.2	91.2	92.6	92.6	94.0
82.5°	32.5	39.0	44.2	53.5	56.4	67.3	66.5	68.7	66.5	58.6	65.1
85°	7.2	13.7	19.5	24.6	28.2	39.0	41.2	46.3	38.3	35.4	35.4
87.5°	0.0	0.0	0.0	0.0	0.0	5.8	11.6	15.9	13.7	11.6	11.6
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-SA2D-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5	3523.5
2.5°	3075.0	3138.0	3213.9	3344.8	3436.7	3535.7	3635.6	3741.9	3770.0	3799.0
5°	2492.9	2616.5	2683.8	2859.6	3044.0	3278.3	3470.0	3679.6	3767.2	3787.4
7.5°	1888.3	1972.1	2148.7	2326.5	2555.0	2801.0	3094.6	3421.5	3523.5	3566.1
10°	1497.1	1611.3	1766.1	1957.0	2157.3	2422.0	2753.3	3135.1	3279.7	3303.6
12.5°	1274.3	1401.6	1570.1	1771.8	1961.3	2160.9	2495.1	2889.2	3044.0	3095.3
15°	1019.0	1173.0	1367.6	1580.2	1786.3	2004.7	2343.2	2787.9	2966.6	3026.6
17.5°	800.5	925.0	1135.4	1366.1	1610.6	1886.9	2311.4	2836.4	3056.3	3112.0
20°	612.6	701.5	878.7	1122.4	1408.8	1770.4	2319.3	3019.4	3282.6	3358.5
22.5°	529.4	574.9	682.7	914.8	1235.3	1669.1	2351.9	3270.3	3587.8	3714.4
25°	479.5	503.3	564.1	715.9	1069.6	1570.8	2426.4	3608.1	4014.5	4098.4
27.5°	436.8	454.1	491.8	601.0	919.2	1479.7	2513.2	3982.7	4413.0	4538.1
30°	396.3	419.5	454.9	533.7	823.0	1396.5	2622.3	4286.4	4748.5	4865.0
32.5°	365.2	388.4	420.9	486.7	741.3	1309.0	2687.4	4553.3	5022.6	5121.8
35°	339.9	359.4	393.4	449.1	679.1	1242.5	2674.4	4765.2	5288.0	5389.3
37.5°	321.9	338.4	372.5	413.7	632.1	1173.0	2667.9	5045.1	5611.3	5728.5
40°	305.2	322.5	353.6	390.6	585.1	1091.3	2671.5	5322.8	5955.6	6072.8
42.5°	292.2	311.7	337.0	384.0	536.6	1025.5	2671.5	5564.3	6255.0	6367.8
45°	281.3	302.3	326.9	383.3	498.3	975.6	2653.4	5771.9	6493.7	6589.8
47.5°	271.9	295.1	330.5	370.3	488.9	939.5	2637.5	5938.2	6688.2	6778.6
50°	265.4	292.9	351.5	355.1	491.8	928.6	2714.2	6148.0	6859.6	6937.7
52.5°	260.4	293.6	350.8	332.7	486.7	935.9	2874.0	6475.6	7097.5	7103.3
55°	250.2	292.9	332.7	307.4	465.7	948.1	3079.4	6951.5	7470.0	7474.3
57.5°	240.1	284.9	308.8	285.7	423.1	948.1	3326.7	7402.0	7919.1	7922.7
60°	230.0	296.5	271.2	266.8	367.3	930.7	3587.8	7600.2	8060.1	8097.0
62.5°	219.8	298.7	242.3	250.2	326.9	888.9	3782.4	7381.0	7869.2	7922.0
65°	208.3	240.9	223.5	232.9	306.0	818.6	3720.9	6979.6	7510.5	7573.4
67.5°	194.5	203.9	203.2	214.8	298.7	715.3	3396.9	6472.0	7124.3	7120.7
70°	177.9	183.0	185.1	197.5	284.9	635.0	2830.6	5813.2	6608.7	6689.7
72.5°	160.5	164.9	167.0	177.9	271.2	589.4	2197.1	4905.5	5724.2	5850.8
75°	141.7	144.7	147.5	156.9	256.8	522.2	1565.0	3744.7	4384.0	4582.9
77.5°	122.2	122.2	125.8	135.2	216.2	431.0	1050.1	2626.7	2970.2	3173.4
80°	99.1	99.8	98.4	108.5	159.1	295.1	596.6	1754.5	1976.5	2015.5
82.5°	75.9	73.8	74.5	79.6	118.6	201.1	318.2	1089.9	1110.9	1089.2
85°	47.8	47.8	46.3	52.1	75.9	104.9	173.6	667.5	521.4	496.1
87.5°	19.5	15.9	18.1	20.9	36.2	42.6	68.0	137.4	52.8	48.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)