

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: P651792

Luminaire Tested: **GALN-SA3A-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651792
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-SA3A-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA 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: 9896.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

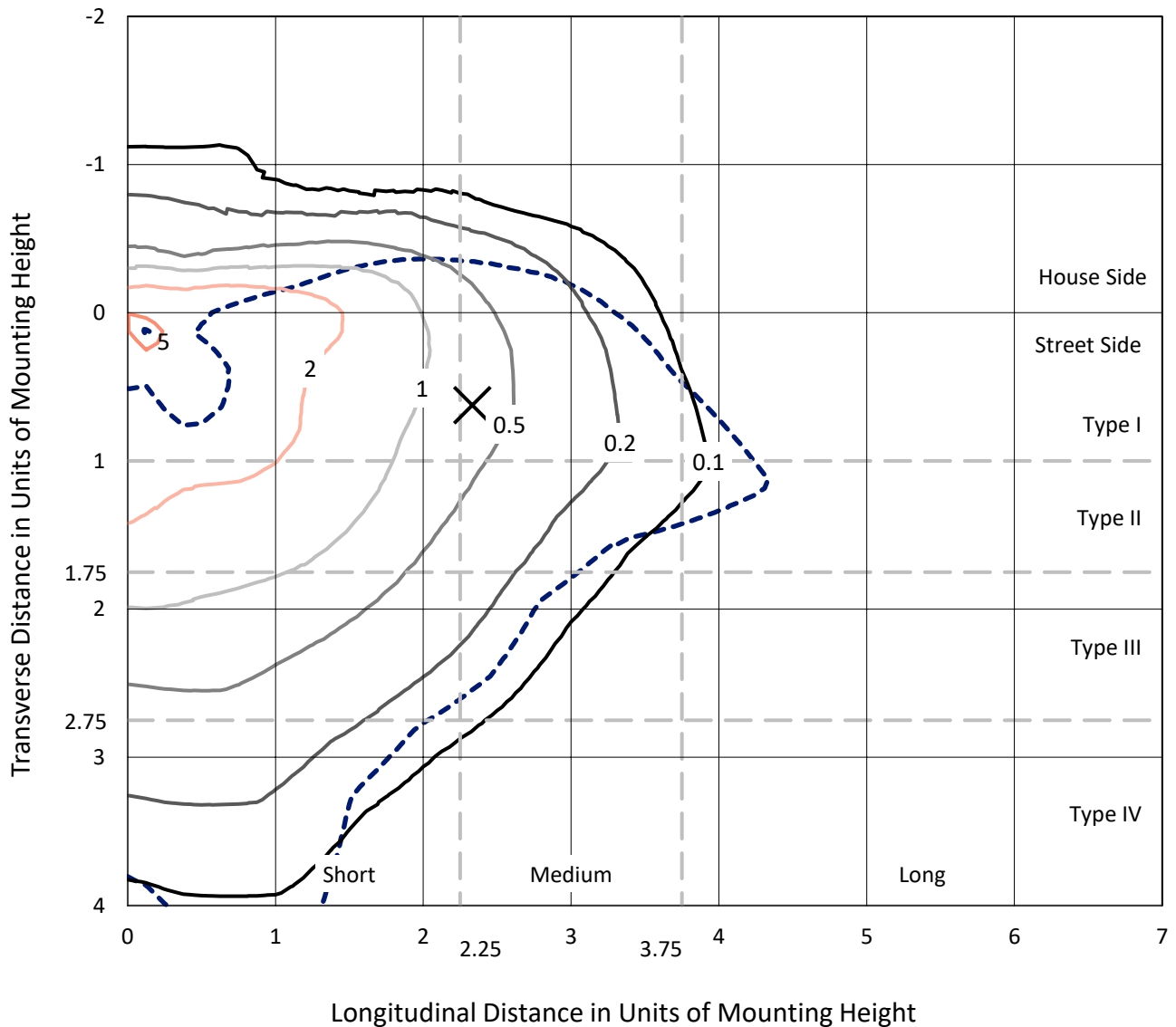
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

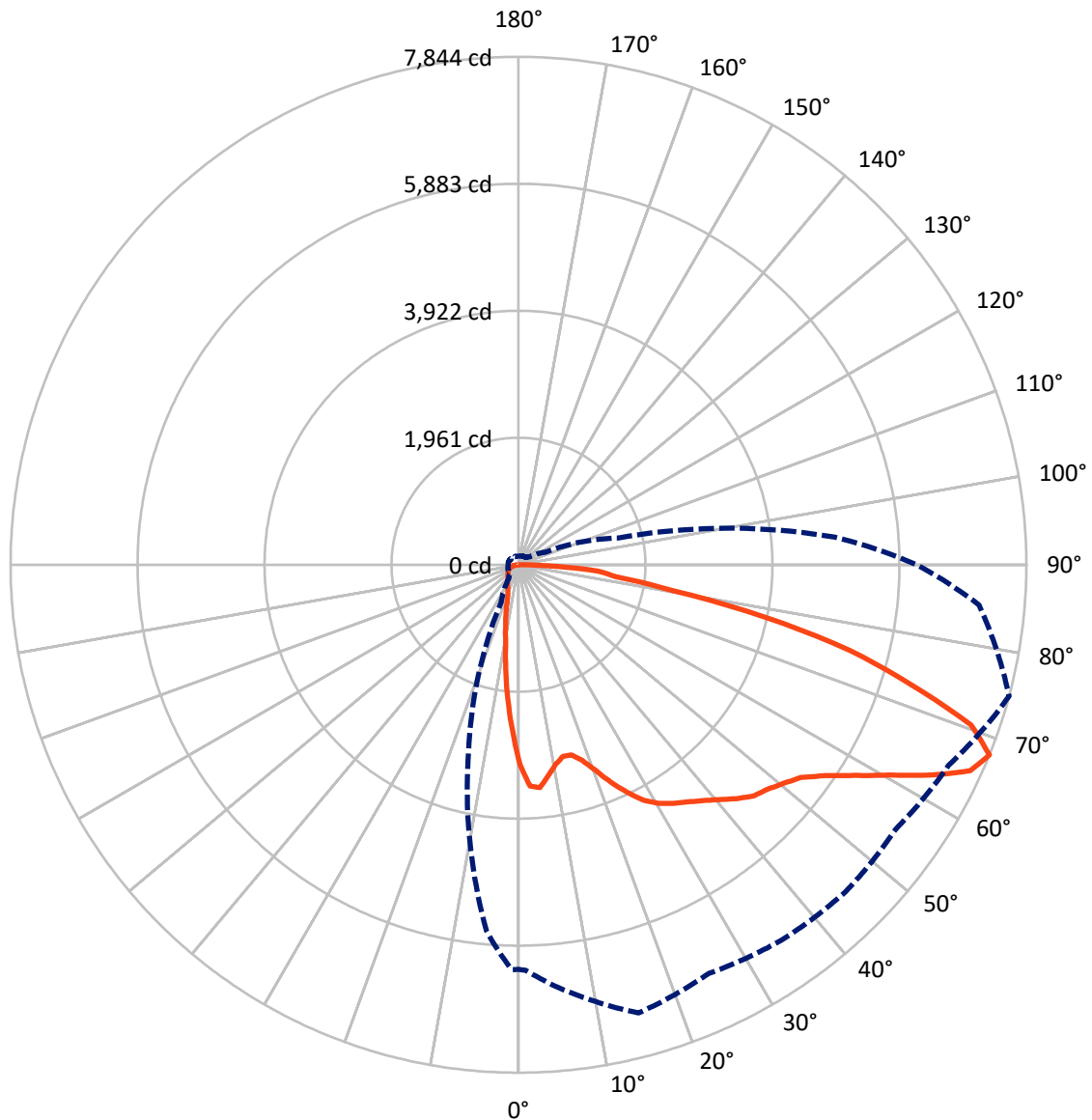
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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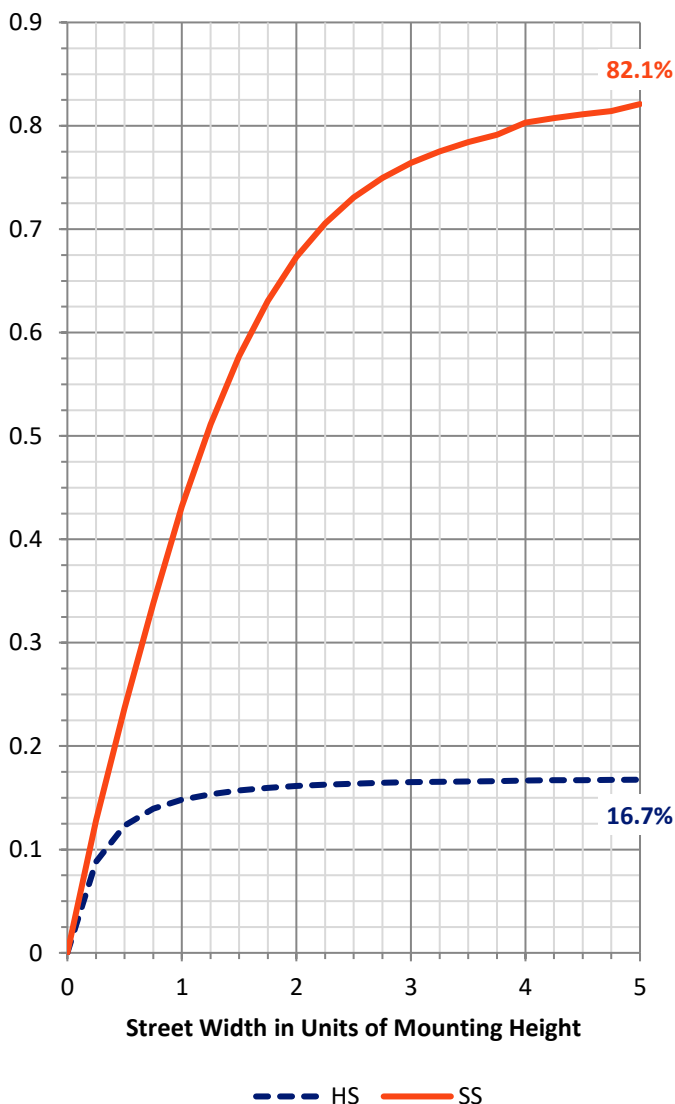
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1672.8	0.0	1672.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8224.1	0.0	8224.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	9896.9	0.0	9896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	2.4
10°-20°	489.1	4.9
20°-30°	703.8	7.1
30°-40°	1013.7	10.2
40°-50°	1424.0	14.4
50°-60°	1985.9	20.1
60°-70°	2361.2	23.9
70°-80°	1390.6	14.1
80°-90°	294.1	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°	9896.9	100.0
0°-180°	9896.9	100.0

Coefficient of Utilization

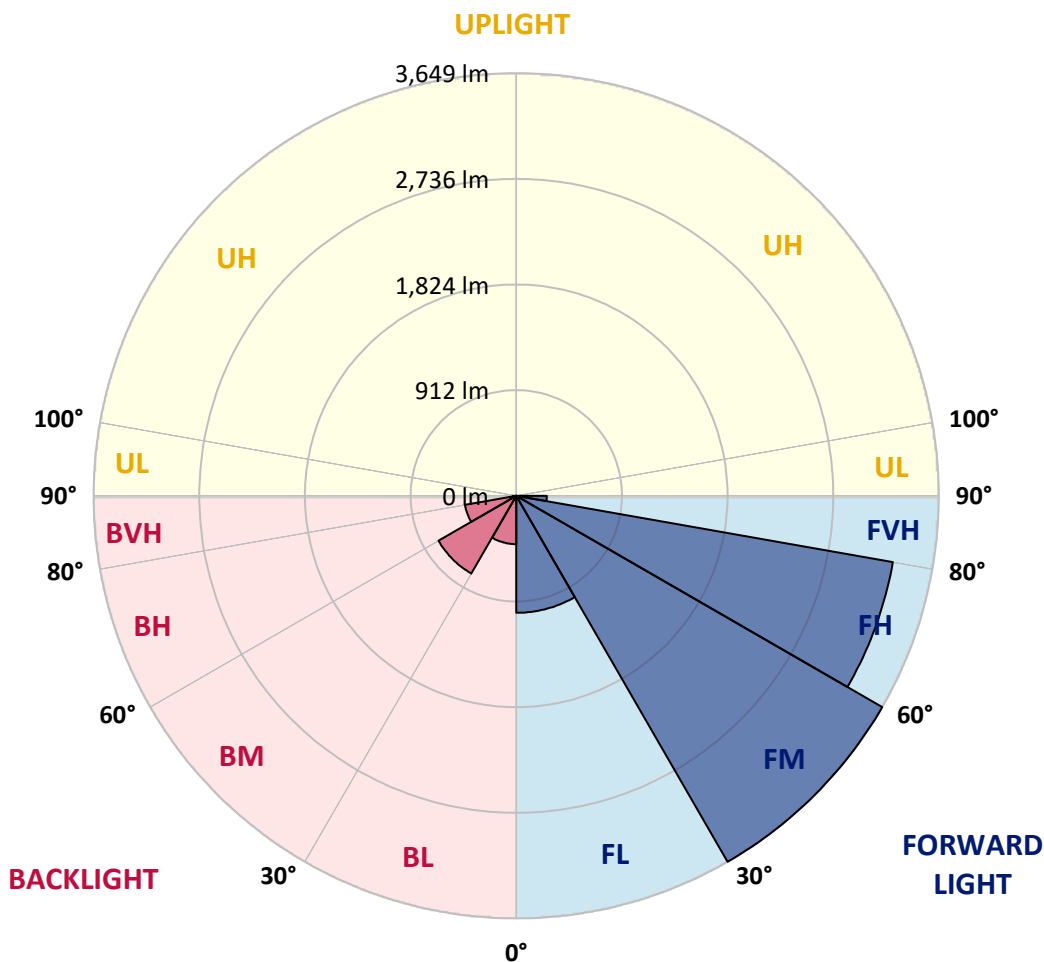


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.2	10.2			
FM (30°-60°)	3648.6	36.9			
FH (60°-80°)	3301.6	33.4			G2/5000
FVH (80°-90°)	263.6	2.7			G3/500
BL (0°-30°)	417.2	4.2	B1/500		
BM (30°-60°)	775.0	7.8	B1/1000		
BH (60°-80°)	450.1	4.5	B1/500		G1/500
BVH (80°-90°)	30.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
2.5°	3333.8	3338.3	3366.9	3450.0	3507.1	3528.0	3542.6	3515.3	3488.7	3424.0	3326.2
5°	3323.6	3349.7	3424.0	3610.5	3757.8	3821.3	3840.3	3758.4	3623.2	3456.9	3257.0
7.5°	3129.4	3164.3	3278.6	3591.5	3851.1	3999.5	3979.9	3832.0	3588.3	3291.9	3012.7
10°	2899.1	2937.8	3075.5	3453.7	3788.2	3992.6	3992.6	3812.3	3488.7	3136.4	2814.7
12.5°	2716.3	2757.0	2914.3	3312.3	3657.5	3851.1	3883.4	3728.6	3417.0	3038.1	2684.6
15°	2656.0	2695.4	2864.8	3226.6	3519.2	3637.2	3648.0	3597.2	3382.1	3045.1	2678.8
17.5°	2730.9	2781.7	2953.0	3252.0	3392.2	3399.2	3407.5	3447.4	3385.9	3172.6	2794.4
20°	2947.3	3001.9	3180.9	3333.8	3281.2	3208.8	3213.2	3316.1	3430.9	3383.3	3070.4
22.5°	3259.5	3307.1	3490.6	3477.9	3234.1	3085.0	3053.9	3197.4	3497.6	3646.1	3364.3
25°	3596.5	3652.4	3863.1	3691.7	3247.5	3011.5	2991.8	3127.6	3566.8	3891.6	3703.8
27.5°	3982.5	4037.1	4203.3	3907.5	3317.3	3005.7	2982.2	3121.2	3628.9	4118.9	4028.1
30°	4269.3	4319.5	4432.4	4089.0	3403.0	3043.7	3014.6	3171.3	3682.2	4274.4	4344.2
32.5°	4494.6	4546.6	4608.2	4202.1	3516.0	3113.0	3059.1	3262.7	3752.0	4393.0	4578.4
35°	4729.4	4791.0	4786.6	4302.3	3621.3	3192.9	3140.3	3394.8	3861.9	4496.5	4875.4
37.5°	5027.1	5051.8	5020.1	4392.5	3747.6	3337.0	3307.8	3590.8	4018.0	4621.5	5222.5
40°	5329.2	5378.7	5215.5	4501.6	3901.2	3608.0	3604.9	3880.9	4203.3	4768.1	5558.9
42.5°	5588.1	5630.0	5398.4	4596.8	4087.2	3938.7	3962.8	4269.9	4446.4	4938.2	5829.3
45°	5783.0	5820.4	5567.2	4688.8	4332.2	4320.7	4462.9	4686.9	4752.9	5091.2	5987.9
47.5°	5948.6	5984.7	5684.6	4828.4	4634.8	4777.0	5024.6	5121.6	5015.1	5178.8	6165.6
50°	6088.3	6099.0	5765.1	4994.7	5010.6	5336.1	5576.1	5638.9	5274.0	5304.4	6319.9
52.5°	6233.6	6219.6	5904.2	5204.1	5416.7	5866.7	6041.2	6106.6	5522.1	5459.3	6544.5
55°	6559.1	6572.4	6215.7	5468.2	5827.4	6387.7	6617.5	6554.7	5796.9	5744.2	6830.1
57.5°	6952.6	6941.2	6654.3	5881.3	6245.6	6872.7	7044.0	6943.1	6163.8	6135.9	7119.5
60°	7105.5	7120.8	7021.2	6325.6	6658.1	7297.2	7472.4	7315.6	6603.5	6590.8	7337.8
62.5°	6952.0	7037.7	7104.9	6720.9	7009.7	7609.5	7783.4	7604.4	7062.4	7154.4	7490.8
65°	6646.1	6664.5	6893.6	7056.1	7179.2	7660.8	7751.7	7656.5	7445.7	7667.8	7483.8
67.5°	6248.8	6264.6	6533.1	7165.8	6960.9	7077.0	7140.4	7112.5	7327.0	7843.7	7139.2
70°	5870.5	5857.8	6141.5	6885.9	6059.7	5883.2	5935.9	5848.3	6322.4	7414.0	6463.3
72.5°	5134.3	5180.1	5484.7	6107.8	4798.0	4511.1	4626.0	4399.4	4862.7	6349.7	5246.0
75°	4021.7	4032.6	4540.9	5126.1	3619.4	3166.9	3322.4	3227.8	3724.8	5296.8	3622.6
77.5°	2784.9	2760.8	3307.1	3915.2	2581.1	2318.4	2320.9	2275.8	2600.8	3900.0	2461.2
80°	1768.8	1732.0	2070.2	2418.6	1773.8	1897.6	1835.4	1833.5	1693.3	2405.9	1488.2
82.5°	955.8	996.4	1308.0	1516.2	1272.5	1466.7	1344.2	1304.8	1162.0	1506.1	952.0
85°	435.4	473.5	697.4	1031.3	966.6	977.3	653.0	770.4	961.5	1223.0	508.4
87.5°	42.6	54.6	144.1	486.8	330.0	260.2	97.1	187.2	241.8	434.7	40.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
2.5°	3286.2	3253.2	3140.9	3048.2	2949.9	2875.0	2777.2	2711.9	2666.8	2598.9	2590.6
5°	3135.2	3054.6	2859.1	2659.8	2487.8	2358.3	2227.0	2106.4	2035.3	2013.1	1984.6
7.5°	2880.7	2744.9	2493.6	2265.1	2067.7	1874.8	1726.2	1620.9	1550.5	1509.2	1459.7
10°	2671.3	2513.8	2208.0	1928.1	1765.6	1645.7	1514.9	1401.9	1315.0	1240.7	1200.1
12.5°	2530.3	2352.6	2008.6	1781.5	1655.8	1528.3	1375.3	1248.4	1120.1	1035.8	999.6
15°	2487.8	2300.0	1947.1	1708.5	1528.3	1361.3	1189.9	1024.3	897.4	817.5	790.8
17.5°	2591.9	2364.7	1946.5	1611.4	1378.5	1179.2	959.6	804.1	674.0	614.4	595.3
20°	2786.1	2489.1	1952.2	1515.6	1216.0	935.4	698.1	570.5	508.4	483.0	473.5
22.5°	3057.1	2678.8	1969.3	1421.0	1038.3	718.5	522.9	458.2	436.0	431.6	429.7
25°	3390.9	2913.6	2027.1	1335.9	888.5	548.3	437.2	408.1	395.4	391.0	390.3
27.5°	3698.1	3217.1	2096.9	1262.9	743.8	472.8	395.4	370.6	357.9	357.3	358.6
30°	3975.5	3470.9	2155.3	1181.1	634.0	420.2	368.1	343.4	331.3	330.7	334.5
32.5°	4215.3	3679.7	2198.5	1100.4	573.1	387.8	343.4	316.7	306.5	304.6	306.5
35°	4471.8	3887.9	2178.8	1037.6	538.2	361.1	325.0	298.9	286.9	281.1	281.1
37.5°	4764.3	4102.4	2145.1	985.7	522.3	338.9	309.1	283.7	271.6	265.9	265.3
40°	5083.6	4316.9	2098.8	939.3	506.5	325.6	298.3	271.6	257.0	251.3	250.0
42.5°	5365.3	4500.3	2060.7	908.8	480.5	328.1	288.8	262.7	244.3	236.7	236.1
45°	5610.3	4685.0	2053.7	891.0	458.8	324.3	286.2	255.7	234.2	226.0	224.6
47.5°	5802.0	4877.3	2093.8	880.9	435.4	304.0	302.8	251.3	225.3	216.4	215.1
50°	6035.5	5150.2	2185.1	859.9	413.8	284.9	319.8	250.7	218.3	206.9	203.7
52.5°	6346.5	5505.6	2308.9	822.5	382.7	267.2	305.3	250.7	210.1	198.6	194.9
55°	6816.8	5958.7	2430.1	769.9	338.9	243.7	275.4	243.0	198.0	187.9	185.4
57.5°	7128.4	6290.0	2507.5	696.9	284.3	226.6	237.3	231.0	185.9	175.2	175.2
60°	7144.3	6378.9	2470.7	604.8	250.0	210.7	206.3	233.0	175.2	163.7	162.5
62.5°	6961.5	6161.2	2279.0	522.3	231.6	193.6	186.6	204.4	164.4	153.0	151.0
65°	6675.9	5605.9	1946.5	483.0	221.5	178.4	168.2	167.5	153.0	142.1	139.6
67.5°	6151.1	4898.9	1599.3	460.1	216.4	161.2	151.7	148.5	139.6	130.8	129.4
70°	5377.4	4103.0	1282.6	450.6	213.9	143.4	135.8	132.0	124.4	117.4	116.8
72.5°	4183.6	3328.1	1058.6	444.2	212.6	126.9	118.7	113.6	109.2	102.9	102.9
75°	3005.1	2448.5	807.9	400.5	196.7	109.2	100.2	97.1	90.7	85.7	87.0
77.5°	1894.4	1648.9	531.8	294.5	152.3	87.5	80.0	78.0	73.0	66.0	70.5
80°	1279.5	1159.5	310.3	185.4	95.9	64.1	61.6	60.9	55.3	47.6	48.3
82.5°	870.8	854.2	161.2	105.4	55.3	37.4	36.2	37.4	31.1	25.4	25.4
85°	340.2	464.6	76.2	41.3	17.7	5.7	8.2	8.9	5.0	2.5	3.2
87.5°	6.3	47.6	1.9	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°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
2.5°	2577.9	2572.3	2581.8	2541.2	2549.4	2564.6	2572.3	2576.7	2639.5	2624.9	2664.9
5°	2011.3	2005.5	2042.3	2047.4	2066.4	2062.6	2081.1	2085.4	2108.3	2116.5	2172.4
7.5°	1462.8	1487.6	1529.5	1551.1	1583.4	1593.6	1584.1	1607.6	1560.0	1594.3	1604.4
10°	1175.4	1145.5	1127.8	1177.3	1183.6	1230.6	1211.5	1196.3	1224.2	1225.5	1252.2
12.5°	978.7	914.5	872.0	886.0	901.2	921.5	924.7	955.1	975.5	994.5	1010.4
15°	767.3	745.0	706.4	687.3	708.9	717.1	736.8	762.2	783.8	789.5	811.1
17.5°	589.0	592.7	586.4	575.0	588.4	594.7	595.9	596.6	602.3	598.5	630.2
20°	474.1	487.4	503.3	505.8	510.2	513.4	507.7	486.2	486.8	500.1	510.2
22.5°	429.0	431.6	449.3	455.1	469.0	463.3	446.8	436.6	435.4	438.6	443.6
25°	393.5	397.3	410.0	418.9	429.7	419.5	407.5	398.0	396.6	399.8	404.9
27.5°	361.7	367.4	378.9	387.8	398.0	388.4	377.0	368.7	368.1	367.4	370.6
30°	336.4	342.7	350.9	361.1	368.1	359.9	349.1	344.6	344.0	342.7	344.0
32.5°	311.0	321.1	329.4	334.5	341.4	335.1	326.8	324.3	319.8	316.0	314.1
35°	282.4	293.2	305.9	312.3	319.2	312.9	307.1	296.4	288.8	288.1	289.4
37.5°	265.9	270.4	280.6	291.3	298.3	295.1	284.3	273.5	271.6	271.6	272.9
40°	251.3	253.2	257.7	271.6	284.3	274.8	261.5	258.3	258.3	257.7	258.3
42.5°	236.7	238.6	238.6	249.4	269.7	254.5	244.3	244.3	244.3	245.0	246.9
45°	223.4	224.0	223.4	231.0	250.0	237.3	230.3	232.3	233.5	234.8	236.1
47.5°	211.9	212.6	211.9	218.3	227.8	222.8	219.0	221.5	224.0	226.0	227.2
50°	201.8	201.2	202.4	206.3	210.7	211.9	209.4	213.3	214.5	217.1	220.3
52.5°	192.9	192.3	193.6	195.4	201.8	201.8	201.8	205.0	207.6	210.1	214.5
55°	182.7	183.4	185.4	187.9	196.1	194.9	195.4	198.0	200.6	204.4	206.9
57.5°	173.2	174.5	177.0	180.9	189.1	188.5	189.1	190.4	193.6	195.4	198.0
60°	162.5	165.0	168.2	170.7	179.0	178.4	181.5	184.0	185.9	185.9	187.2
62.5°	151.7	155.5	158.7	160.5	169.5	170.1	174.5	176.4	177.7	176.4	178.4
65°	140.9	146.6	147.8	150.4	159.3	160.0	165.0	169.5	168.2	166.9	170.1
67.5°	130.1	137.1	136.4	139.6	148.5	149.8	154.2	161.8	159.3	158.0	160.5
70°	118.1	123.1	123.8	125.6	137.8	135.8	142.8	149.8	147.8	148.5	148.5
72.5°	104.7	109.2	109.2	112.9	125.6	122.4	128.2	135.8	135.8	135.1	135.1
75°	88.8	91.4	93.9	99.7	112.9	109.2	112.9	119.9	121.2	119.9	119.9
77.5°	71.7	75.5	76.8	84.4	93.9	93.3	97.1	100.2	102.9	101.5	101.5
80°	50.8	54.6	59.6	67.9	73.6	75.5	77.5	80.0	81.2	81.2	82.5
82.5°	28.6	34.3	38.7	46.9	49.5	59.0	58.4	60.3	58.4	51.4	57.1
85°	6.3	12.0	17.2	21.6	24.7	34.3	36.2	40.6	33.6	31.1	31.1
87.5°	0.0	0.0	0.0	0.0	0.0	5.0	10.2	14.0	12.0	10.2	10.2
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-SA3A-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
2.5°	2698.5	2753.8	2820.4	2935.3	3015.8	3102.8	3190.4	3283.7	3308.4	3333.8
5°	2187.6	2296.2	2355.2	2509.4	2671.3	2876.9	3045.1	3229.1	3305.9	3323.6
7.5°	1657.1	1730.7	1885.5	2041.7	2242.2	2458.0	2715.7	3002.5	3092.0	3129.4
10°	1313.7	1414.0	1549.8	1717.4	1893.2	2125.5	2416.1	2751.2	2878.2	2899.1
12.5°	1118.3	1230.0	1377.8	1554.9	1721.2	1896.4	2189.5	2535.4	2671.3	2716.3
15°	894.2	1029.4	1200.1	1386.7	1567.6	1759.3	2056.2	2446.6	2603.3	2656.0
17.5°	702.6	811.7	996.4	1198.8	1413.4	1655.8	2028.3	2489.1	2682.0	2730.9
20°	537.6	615.6	771.1	985.0	1236.3	1553.7	2035.3	2649.7	2880.7	2947.3
22.5°	464.6	504.5	599.1	802.8	1084.0	1464.8	2063.9	2869.9	3148.5	3259.5
25°	420.8	441.7	495.0	628.3	938.6	1378.5	2129.2	3166.3	3522.9	3596.5
27.5°	383.3	398.5	431.6	527.4	806.6	1298.5	2205.4	3495.0	3872.6	3982.5
30°	347.8	368.1	399.2	468.4	722.3	1225.5	2301.2	3761.5	4167.2	4269.3
32.5°	320.5	340.8	369.4	427.1	650.5	1148.7	2358.3	3995.8	4407.7	4494.6
35°	298.3	315.5	345.2	394.1	595.9	1090.4	2347.0	4181.7	4640.6	4729.4
37.5°	282.4	297.0	326.8	363.1	554.7	1029.4	2341.3	4427.4	4924.2	5027.1
40°	267.9	283.1	310.3	342.7	513.4	957.7	2344.4	4671.0	5226.4	5329.2
42.5°	256.4	273.5	295.8	337.0	470.9	900.0	2344.4	4883.0	5489.1	5588.1
45°	246.9	265.3	286.9	336.4	437.2	856.1	2328.6	5065.2	5698.5	5783.0
47.5°	238.6	258.9	290.1	325.0	429.0	824.4	2314.6	5211.1	5869.3	5948.6
50°	233.0	257.0	308.5	311.6	431.6	814.9	2381.9	5395.2	6019.7	6088.3
52.5°	228.5	257.7	307.8	291.9	427.1	821.2	2522.1	5682.6	6228.4	6233.6
55°	219.6	257.0	291.9	269.7	408.7	832.0	2702.4	6100.3	6555.3	6559.1
57.5°	210.7	250.0	271.0	250.7	371.3	832.0	2919.4	6495.6	6949.4	6952.6
60°	201.8	260.2	238.0	234.2	322.4	816.8	3148.5	6669.6	7073.2	7105.5
62.5°	192.9	262.1	212.6	219.6	286.9	780.0	3319.3	6477.2	6905.6	6952.0
65°	182.7	211.3	196.1	204.4	268.4	718.5	3265.3	6125.0	6590.8	6646.1
67.5°	170.7	179.0	178.4	188.5	262.1	627.6	2980.9	5679.5	6251.9	6248.8
70°	156.1	160.5	162.5	173.2	250.0	557.2	2484.1	5101.3	5799.5	5870.5
72.5°	140.9	144.7	146.6	156.1	238.0	517.2	1928.1	4304.8	5023.3	5134.3
75°	124.4	126.9	129.4	137.8	225.3	458.2	1373.4	3286.2	3847.2	4021.7
77.5°	107.2	107.2	110.4	118.7	189.7	378.3	921.5	2305.0	2606.5	2784.9
80°	87.0	87.5	86.3	95.2	139.6	258.9	523.6	1539.7	1734.5	1768.8
82.5°	66.6	64.8	65.3	69.8	104.1	176.4	279.2	956.4	974.8	955.8
85°	41.9	41.9	40.6	45.7	66.6	92.0	152.3	585.8	457.6	435.4
87.5°	17.2	14.0	15.9	18.4	31.7	37.4	59.6	120.6	46.3	42.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)