

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: P652287

Luminaire Tested: **GALN-SA3B-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652287
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-SA3B-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 12313.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

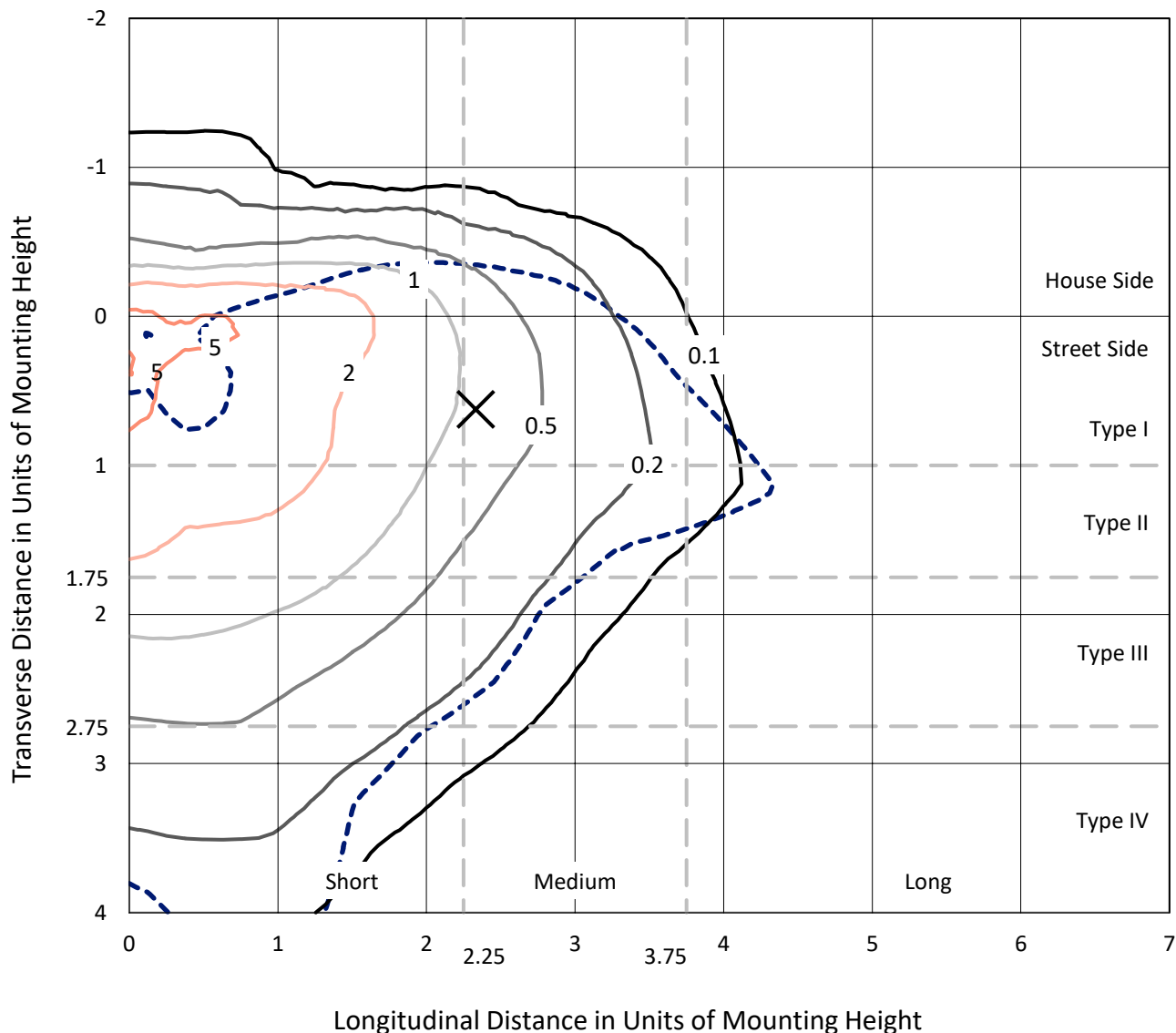
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

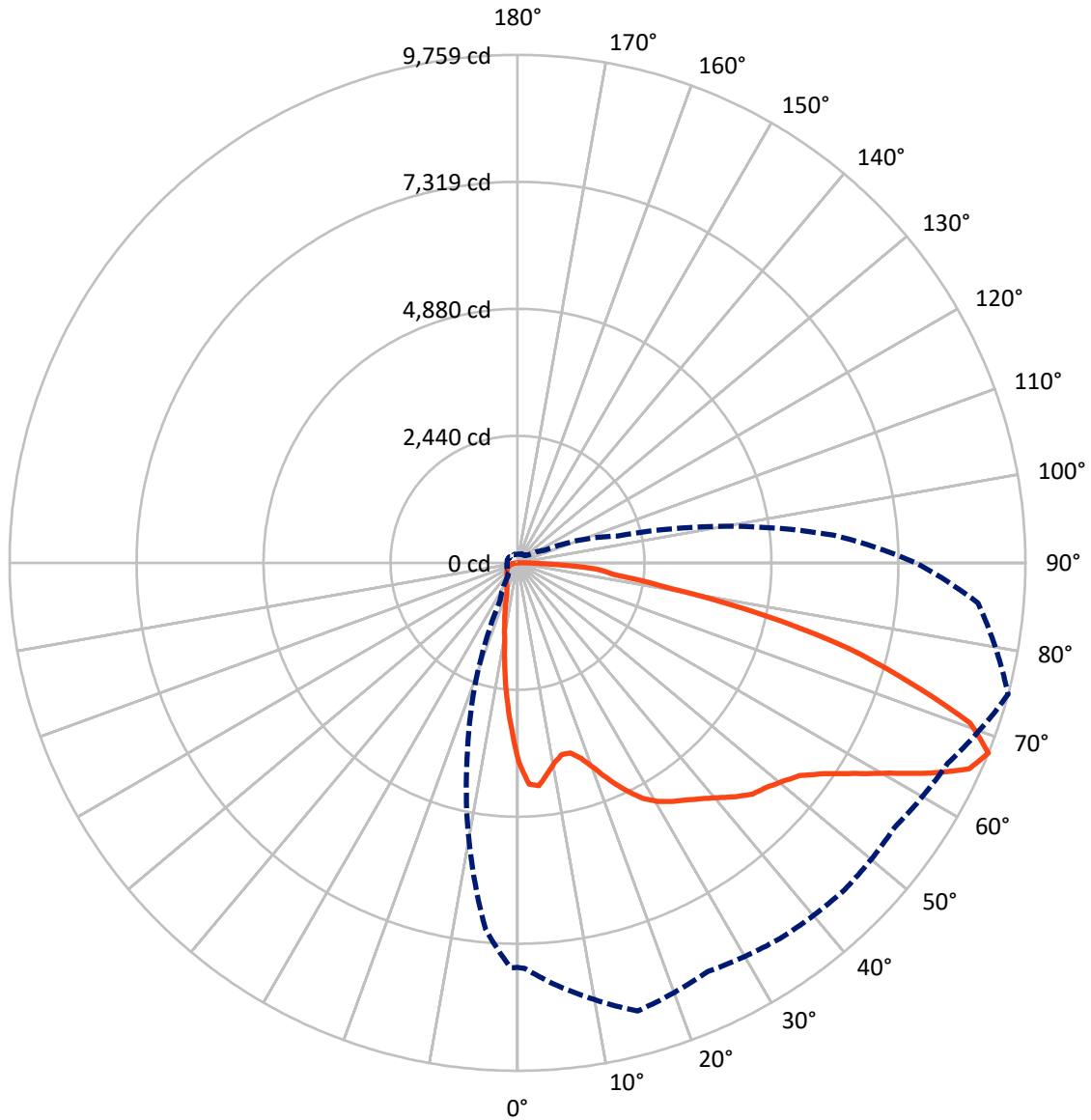
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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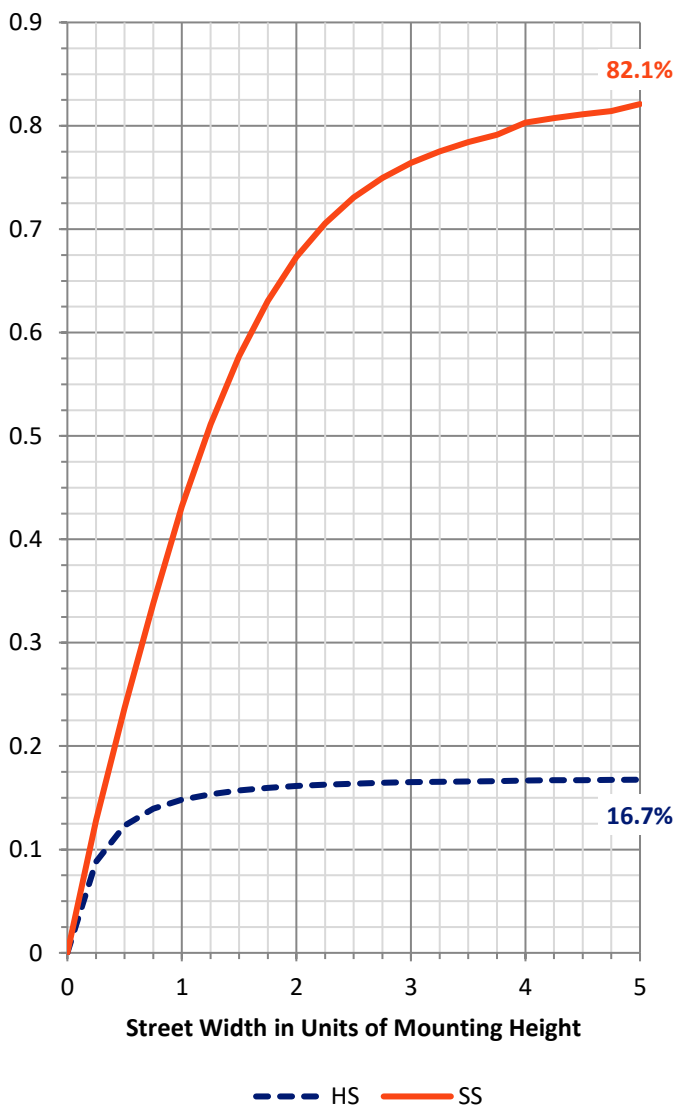
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2081.3	0.0	2081.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	10232.6	0.0	10232.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	12313.9	0.0	12313.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	2.4
10°-20°	608.6	4.9
20°-30°	875.7	7.1
30°-40°	1261.3	10.2
40°-50°	1771.7	14.4
50°-60°	2471.0	20.1
60°-70°	2937.8	23.9
70°-80°	1730.2	14.1
80°-90°	365.9	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°	12313.9	100.0
0°-180°	12313.9	100.0

Coefficient of Utilization

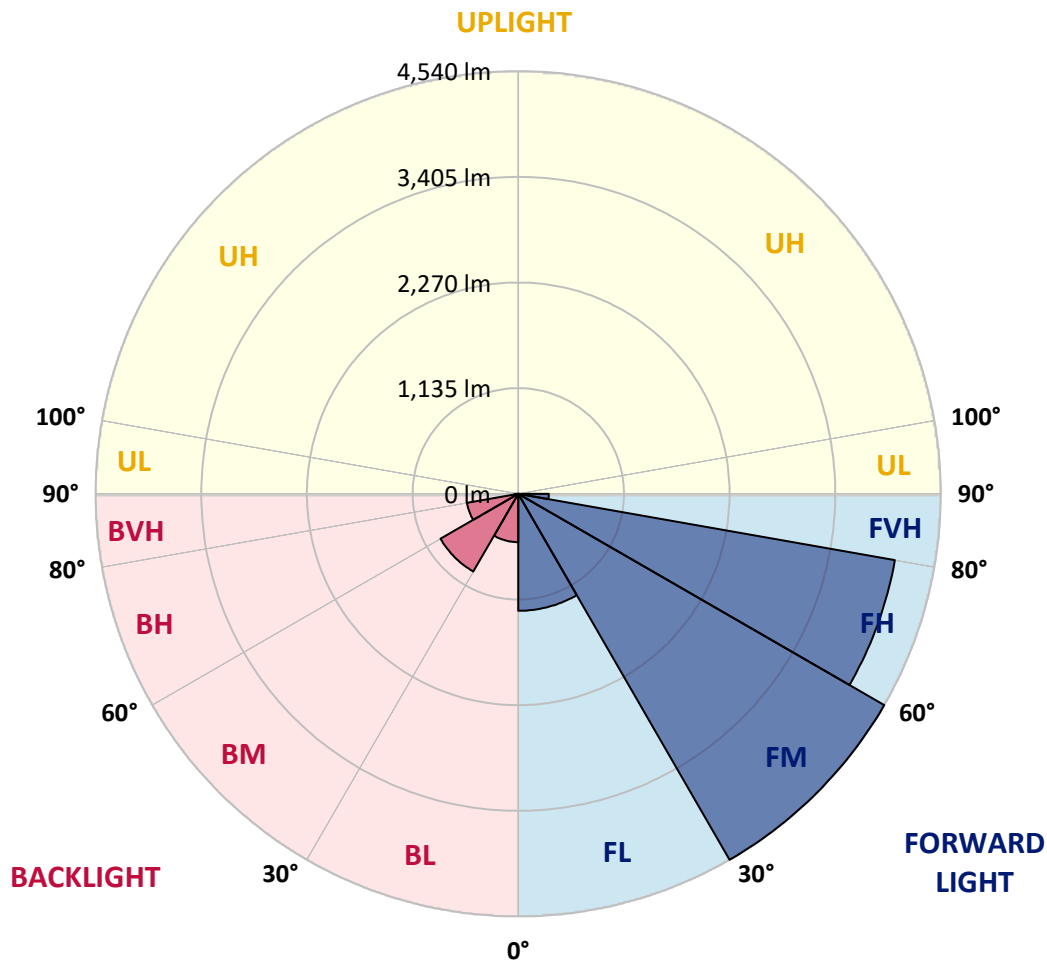


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1256.9	10.2			
FM (30°-60°)	4539.7	36.9			
FH (60°-80°)	4108.0	33.4			G2/5000
FVH (80°-90°)	328.0	2.7			G3/500
BL (0°-30°)	519.1	4.2	B2/1000		
BM (30°-60°)	964.3	7.8	B1/1000		
BH (60°-80°)	560.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	37.8	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°	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2
2.5°	4148.0	4153.5	4189.1	4292.5	4363.6	4389.7	4407.8	4373.9	4340.7	4260.2	4138.6
5°	4135.4	4167.7	4260.2	4492.3	4675.5	4754.4	4778.1	4676.3	4508.1	4301.2	4052.4
7.5°	3893.7	3937.1	4079.4	4468.7	4791.6	4976.4	4951.9	4767.9	4464.7	4095.9	3748.4
10°	3607.1	3655.2	3826.6	4297.3	4713.4	4967.7	4967.7	4743.4	4340.7	3902.4	3502.1
12.5°	3379.7	3430.2	3626.1	4121.2	4550.7	4791.6	4831.9	4639.2	4251.4	3780.0	3340.2
15°	3304.7	3353.7	3564.5	4014.6	4378.6	4525.5	4538.9	4475.7	4208.0	3788.7	3333.1
17.5°	3397.9	3461.1	3674.2	4046.1	4220.6	4229.4	4239.6	4289.4	4212.7	3947.5	3476.8
20°	3667.1	3735.0	3957.7	4148.0	4082.5	3992.5	3997.9	4125.9	4268.8	4209.6	3820.3
22.5°	4055.6	4114.8	4343.1	4327.3	4024.0	3838.5	3799.8	3978.3	4351.8	4536.5	4185.9
25°	4475.0	4544.4	4806.6	4593.4	4040.6	3746.9	3722.4	3891.4	4437.8	4842.1	4608.3
27.5°	4955.0	5023.0	5229.8	4861.8	4127.5	3739.8	3710.6	3883.5	4515.2	5124.8	5011.9
30°	5311.9	5374.3	5514.9	5087.7	4234.1	3787.1	3750.9	3945.9	4581.5	5318.2	5405.1
32.5°	5592.3	5657.1	5733.6	5228.2	4374.6	3873.2	3806.1	4059.6	4668.4	5465.9	5696.5
35°	5884.5	5961.0	5955.5	5353.0	4505.7	3972.7	3907.2	4223.8	4805.0	5594.7	6066.0
37.5°	6254.8	6285.5	6246.1	5465.2	4662.8	4151.9	4115.6	4467.8	4999.2	5750.2	6498.0
40°	6630.7	6692.3	6489.3	5601.0	4854.0	4489.2	4485.2	4828.7	5229.8	5932.6	6916.6
42.5°	6952.9	7004.9	6716.7	5719.4	5085.4	4900.6	4930.5	5312.8	5532.3	6144.3	7252.9
45°	7195.3	7241.9	6926.8	5833.9	5390.1	5375.9	5552.8	5831.6	5913.7	6334.6	7450.3
47.5°	7401.4	7446.4	7072.9	6007.6	5766.8	5943.7	6251.7	6372.4	6239.8	6443.5	7671.4
50°	7575.1	7588.5	7173.1	6214.5	6234.2	6639.4	6937.8	7016.0	6562.0	6599.8	7863.3
52.5°	7756.0	7738.5	7346.1	6475.1	6739.6	7299.5	7516.7	7598.0	6870.7	6792.5	8142.8
55°	8161.0	8177.5	7733.8	6803.6	7250.5	7947.8	8233.6	8155.5	7212.7	7147.1	8498.2
57.5°	8650.6	8636.4	8279.5	7317.6	7770.9	8551.1	8764.3	8638.8	7669.1	7634.3	8858.3
60°	8840.9	8859.9	8735.9	7870.4	8284.2	9079.4	9297.3	9102.2	8216.3	8200.5	9129.9
62.5°	8649.8	8756.4	8840.1	8362.4	8721.7	9467.9	9684.2	9461.6	8787.2	8901.7	9320.2
65°	8269.2	8292.1	8577.1	8779.3	8932.5	9531.8	9644.8	9526.3	9264.1	9540.6	9311.6
67.5°	7774.9	7794.6	8128.6	8915.9	8660.9	8805.4	8884.3	8849.6	9116.4	9759.2	8882.7
70°	7304.3	7288.4	7641.4	8567.7	7539.6	7320.1	7385.6	7276.6	7866.5	9224.7	8041.7
72.5°	6388.2	6445.1	6824.1	7599.5	5969.8	5612.8	5755.7	5473.8	6050.2	7900.4	6527.3
75°	5004.0	5017.4	5649.9	6378.0	4503.4	3940.3	4133.8	4016.1	4634.4	6590.4	4507.3
77.5°	3465.0	3435.0	4114.8	4871.3	3211.5	2884.5	2887.7	2831.6	3236.0	4852.4	3062.2
80°	2200.7	2155.0	2575.8	3009.4	2207.0	2361.0	2283.7	2281.3	2106.8	2993.5	1851.7
82.5°	1189.2	1239.7	1627.5	1886.4	1583.3	1824.9	1672.5	1623.6	1445.8	1873.8	1184.5
85°	541.7	589.0	867.8	1283.2	1202.6	1216.1	812.6	958.7	1196.3	1521.6	632.5
87.5°	52.9	67.9	179.2	605.7	410.6	323.8	120.9	233.0	300.8	540.9	50.5
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°	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2
2.5°	4088.8	4047.7	3908.0	3792.7	3670.3	3577.1	3455.5	3374.2	3318.1	3233.6	3223.3
5°	3900.9	3800.6	3557.3	3309.4	3095.4	2934.3	2770.8	2620.8	2532.4	2504.8	2469.3
7.5°	3584.2	3415.2	3102.5	2818.3	2572.7	2332.6	2147.8	2016.7	1929.1	1877.8	1816.2
10°	3323.6	3127.8	2747.2	2399.0	2196.8	2047.6	1884.8	1744.3	1636.2	1543.7	1493.2
12.5°	3148.3	2927.2	2499.2	2216.5	2060.2	1901.5	1711.2	1553.2	1393.7	1288.7	1243.7
15°	3095.4	2861.7	2422.7	2125.7	1901.5	1693.8	1480.6	1274.5	1116.6	1017.1	983.9
17.5°	3224.9	2942.2	2421.8	2004.9	1715.1	1467.1	1194.0	1000.5	838.6	764.4	740.7
20°	3466.5	3097.0	2429.0	1885.7	1513.0	1163.9	868.6	709.9	632.5	600.9	589.0
22.5°	3803.8	3333.1	2450.3	1768.0	1291.9	893.9	650.7	570.1	542.5	537.0	534.6
25°	4219.0	3625.3	2522.2	1662.2	1105.5	682.2	544.0	507.7	492.0	486.4	485.6
27.5°	4601.3	4002.7	2609.0	1571.4	925.4	588.3	492.0	461.1	445.4	444.6	446.2
30°	4946.3	4318.6	2681.6	1469.6	788.9	522.8	458.0	427.2	412.2	411.4	416.1
32.5°	5244.8	4578.4	2735.4	1369.2	713.1	482.5	427.2	394.0	381.4	379.0	381.4
35°	5563.9	4837.3	2710.9	1291.1	669.6	449.3	404.3	371.9	356.9	349.8	349.8
37.5°	5927.9	5104.3	2669.0	1226.3	649.8	421.7	384.6	353.0	338.0	330.8	330.1
40°	6325.1	5371.2	2611.4	1168.7	630.2	405.1	371.1	338.0	319.8	312.7	311.1
42.5°	6675.7	5599.4	2564.0	1130.8	597.8	408.2	359.3	326.9	304.0	294.5	293.8
45°	6980.5	5829.1	2555.3	1108.7	571.0	403.5	356.2	318.2	291.4	281.1	279.5
47.5°	7219.0	6068.4	2605.1	1096.0	541.7	378.3	376.7	312.7	280.3	269.3	267.7
50°	7509.5	6408.0	2718.8	1070.0	514.9	354.6	398.0	311.9	271.6	257.4	253.5
52.5°	7896.5	6850.2	2872.8	1023.4	476.2	332.4	379.8	311.9	261.4	247.2	242.5
55°	8481.6	7414.0	3023.6	957.8	421.7	303.3	342.7	302.4	246.3	233.7	230.6
57.5°	8869.4	7826.2	3119.9	867.1	353.7	281.9	295.4	287.5	231.4	217.9	217.9
60°	8889.0	7936.8	3074.1	752.5	311.1	262.1	256.7	289.8	217.9	203.7	202.2
62.5°	8661.6	7665.9	2835.6	649.8	288.2	240.9	232.1	254.2	204.5	190.3	188.0
65°	8306.3	6974.9	2421.8	600.9	275.6	221.9	209.2	208.5	190.3	176.9	173.8
67.5°	7653.3	6095.3	1989.9	572.5	269.3	200.6	188.7	184.8	173.8	162.6	161.1
70°	6690.7	5105.0	1595.9	560.6	266.1	178.5	169.0	164.2	154.7	146.1	145.3
72.5°	5205.4	4140.9	1317.1	552.8	264.5	157.9	147.7	141.4	135.8	127.9	127.9
75°	3739.0	3046.4	1005.2	498.3	244.8	135.8	124.8	120.9	112.9	106.6	108.2
77.5°	2357.1	2051.5	661.7	366.4	189.5	109.0	99.5	97.1	90.8	82.1	87.6
80°	1591.9	1442.7	386.1	230.6	119.3	79.7	76.6	75.8	68.7	59.2	60.0
82.5°	1083.4	1062.9	200.6	131.1	68.7	46.6	45.0	46.6	38.7	31.6	31.6
85°	423.3	578.0	94.8	51.3	22.1	7.1	10.3	11.0	6.3	3.2	4.0
87.5°	7.9	59.2	2.4	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°	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2
2.5°	3207.6	3200.4	3212.3	3161.7	3172.0	3190.9	3200.4	3206.0	3284.1	3265.9	3315.7
5°	2502.4	2495.2	2541.1	2547.4	2571.1	2566.3	2589.3	2594.8	2623.2	2633.5	2703.0
7.5°	1820.2	1851.0	1903.0	1929.9	1970.2	1982.8	1971.0	2000.2	1940.9	1983.6	1996.2
10°	1462.4	1425.3	1403.2	1464.8	1472.7	1531.1	1507.4	1488.5	1523.2	1524.8	1558.0
12.5°	1217.6	1137.9	1085.0	1102.4	1121.3	1146.5	1150.5	1188.4	1213.6	1237.4	1257.1
15°	954.7	927.0	878.8	855.2	882.0	892.3	916.8	948.4	975.2	982.3	1009.2
17.5°	732.8	737.6	729.7	715.4	732.0	739.9	741.5	742.3	749.4	744.6	784.1
20°	589.9	606.4	626.2	629.3	634.9	638.8	631.8	604.8	605.7	622.3	634.9
22.5°	533.8	537.0	559.1	566.2	583.6	576.4	555.9	543.3	541.7	545.6	551.9
25°	489.5	494.3	510.2	521.2	534.6	521.9	507.0	495.1	493.5	497.5	503.8
27.5°	450.1	457.2	471.4	482.5	495.1	483.2	469.0	458.8	458.0	457.2	461.1
30°	418.5	426.4	436.6	449.3	458.0	447.7	434.3	428.7	428.0	426.4	428.0
32.5°	386.9	399.6	409.8	416.1	424.8	417.0	406.7	403.5	398.0	393.3	390.9
35°	351.4	364.8	380.6	388.5	397.2	389.3	382.2	368.8	359.3	358.5	360.1
37.5°	330.8	336.4	349.0	362.5	371.1	367.2	353.7	340.4	338.0	338.0	339.5
40°	312.7	315.0	320.6	338.0	353.7	342.0	325.3	321.3	321.3	320.6	321.3
42.5°	294.5	296.9	296.9	310.3	335.6	316.6	304.0	304.0	304.0	304.8	307.1
45°	278.0	278.7	278.0	287.5	311.1	295.4	286.6	289.1	290.6	292.2	293.8
47.5°	263.7	264.5	263.7	271.6	283.5	277.2	272.4	275.6	278.7	281.1	282.7
50°	251.1	250.3	251.9	256.7	262.1	263.7	260.5	265.3	266.9	270.0	274.0
52.5°	240.0	239.3	240.9	243.2	251.1	251.1	251.1	255.1	258.2	261.4	266.9
55°	227.4	228.2	230.6	233.7	244.0	242.5	243.2	246.3	249.5	254.2	257.4
57.5°	215.5	217.1	220.3	225.1	235.3	234.6	235.3	236.9	240.9	243.2	246.3
60°	202.2	205.3	209.2	212.4	222.7	221.9	225.8	229.0	231.4	231.4	233.0
62.5°	188.7	193.4	197.4	199.8	210.8	211.6	217.1	219.5	221.1	219.5	221.9
65°	175.3	182.4	184.0	187.1	198.2	199.0	205.3	210.8	209.2	207.6	211.6
67.5°	161.9	170.6	169.8	173.8	184.8	186.4	191.9	201.3	198.2	196.6	199.8
70°	146.8	153.2	154.0	156.3	171.3	169.0	177.7	186.4	184.0	184.8	184.8
72.5°	130.3	135.8	135.8	140.5	156.3	152.4	159.5	169.0	169.0	168.2	168.2
75°	110.6	113.7	116.9	124.0	140.5	135.8	140.5	149.3	150.8	149.3	149.3
77.5°	89.2	93.9	95.5	105.0	116.9	116.1	120.9	124.8	127.9	126.3	126.3
80°	63.2	67.9	74.3	84.5	91.6	93.9	96.4	99.5	101.1	101.1	102.7
82.5°	35.6	42.6	48.2	58.4	61.6	73.4	72.7	75.0	72.7	64.0	71.1
85°	7.9	15.0	21.4	26.8	30.8	42.6	45.0	50.5	41.9	38.7	38.7
87.5°	0.0	0.0	0.0	0.0	0.0	6.3	12.6	17.4	15.0	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652287
 CATALOG NUMBER: GALN-SA3B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2
2.5°	3357.6	3426.3	3509.2	3652.1	3752.4	3860.6	3969.5	4085.7	4116.4	4148.0
5°	2721.9	2857.0	2930.4	3122.3	3323.6	3579.5	3788.7	4017.7	4113.2	4135.4
7.5°	2061.8	2153.4	2346.1	2540.3	2789.8	3058.3	3378.9	3735.8	3847.2	3893.7
10°	1634.6	1759.4	1928.3	2136.8	2355.6	2644.5	3006.2	3423.1	3581.1	3607.1
12.5°	1391.4	1530.4	1714.3	1934.6	2141.5	2359.4	2724.3	3154.7	3323.6	3379.7
15°	1112.6	1280.8	1493.2	1725.4	1950.4	2188.9	2558.5	3044.1	3239.1	3304.7
17.5°	874.1	1010.0	1239.7	1491.7	1758.5	2060.2	2523.7	3097.0	3337.1	3397.9
20°	668.8	766.0	959.4	1225.5	1538.3	1933.0	2532.4	3296.8	3584.2	3667.1
22.5°	578.0	627.8	745.5	998.9	1348.7	1822.5	2567.9	3570.8	3917.5	4055.6
25°	523.5	549.6	615.9	781.7	1167.9	1715.1	2649.2	3939.6	4383.3	4475.0
27.5°	476.9	495.9	537.0	656.2	1003.6	1615.6	2744.0	4348.6	4818.4	4955.0
30°	432.7	458.0	496.7	582.7	898.6	1524.8	2863.3	4680.2	5184.8	5311.9
32.5°	398.8	424.0	459.6	531.4	809.4	1429.3	2934.3	4971.7	5484.1	5592.3
35°	371.1	392.5	429.6	490.4	741.5	1356.6	2920.1	5203.0	5773.9	5884.5
37.5°	351.4	369.5	406.7	451.7	690.1	1280.8	2913.0	5508.6	6126.9	6254.8
40°	333.2	352.2	386.1	426.4	638.8	1191.6	2916.9	5811.8	6502.8	6630.7
42.5°	319.0	340.4	367.9	419.3	585.9	1119.7	2916.9	6075.6	6829.7	6952.9
45°	307.1	330.1	356.9	418.5	544.0	1065.2	2897.2	6302.2	7090.2	7195.3
47.5°	296.9	322.2	360.9	404.3	533.8	1025.8	2879.8	6483.8	7302.7	7401.4
50°	289.8	319.8	383.7	387.7	537.0	1013.9	2963.5	6712.8	7489.8	7575.1
52.5°	284.3	320.6	383.0	363.2	531.4	1021.8	3138.0	7070.5	7749.6	7756.0
55°	273.2	319.8	363.2	335.6	508.6	1035.2	3362.3	7590.1	8156.3	8161.0
57.5°	262.1	311.1	337.2	311.9	462.0	1035.2	3632.4	8082.0	8646.7	8650.6
60°	251.1	323.8	296.1	291.4	401.2	1016.3	3917.5	8298.4	8800.6	8840.9
62.5°	240.0	326.1	264.5	273.2	356.9	970.5	4129.8	8059.1	8592.2	8649.8
65°	227.4	263.0	244.0	254.2	334.0	893.9	4062.7	7620.9	8200.5	8269.2
67.5°	212.4	222.7	221.9	234.6	326.1	781.0	3709.0	7066.6	7778.8	7774.9
70°	194.3	199.8	202.2	215.5	311.1	693.3	3090.7	6347.2	7215.8	7304.3
72.5°	175.3	180.1	182.4	194.3	296.1	643.5	2399.0	5356.2	6250.1	6388.2
75°	154.7	157.9	161.1	171.3	280.3	570.1	1708.8	4088.8	4786.8	5004.0
77.5°	133.5	133.5	137.4	147.7	236.1	470.6	1146.5	2868.0	3243.1	3465.0
80°	108.2	109.0	107.4	118.4	173.8	322.2	651.4	1915.7	2158.1	2200.7
82.5°	82.9	80.6	81.3	86.9	129.5	219.5	347.4	1190.0	1212.9	1189.2
85°	52.1	52.1	50.5	56.9	82.9	114.5	189.5	728.8	569.4	541.7
87.5°	21.4	17.4	19.8	22.9	39.4	46.6	74.3	150.0	57.6	52.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)