

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: P652506

Luminaire Tested: **GALN-SA7B-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23937.4 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

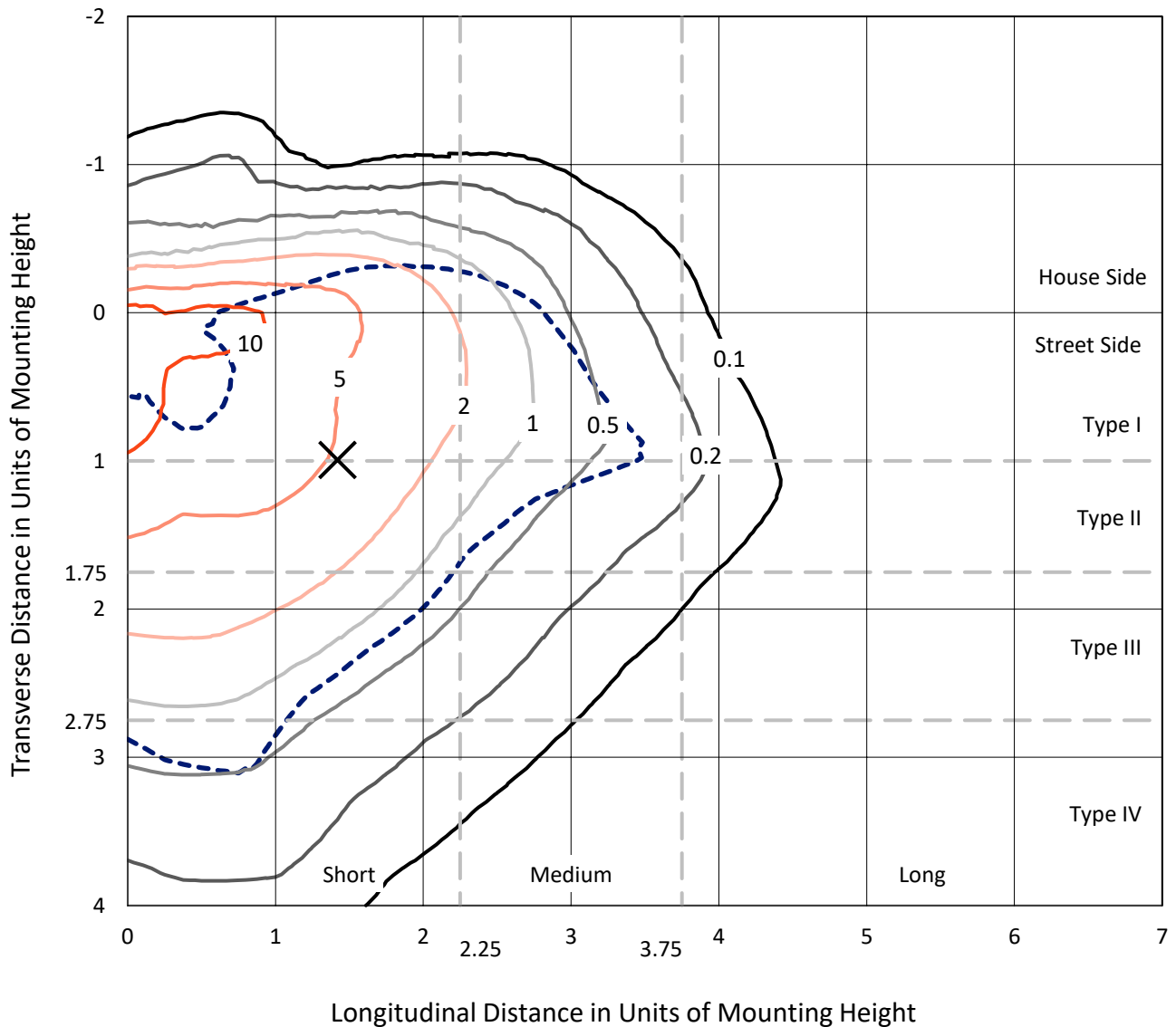
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652506
 CATALOG NUMBER: GALN-SA7B-840-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

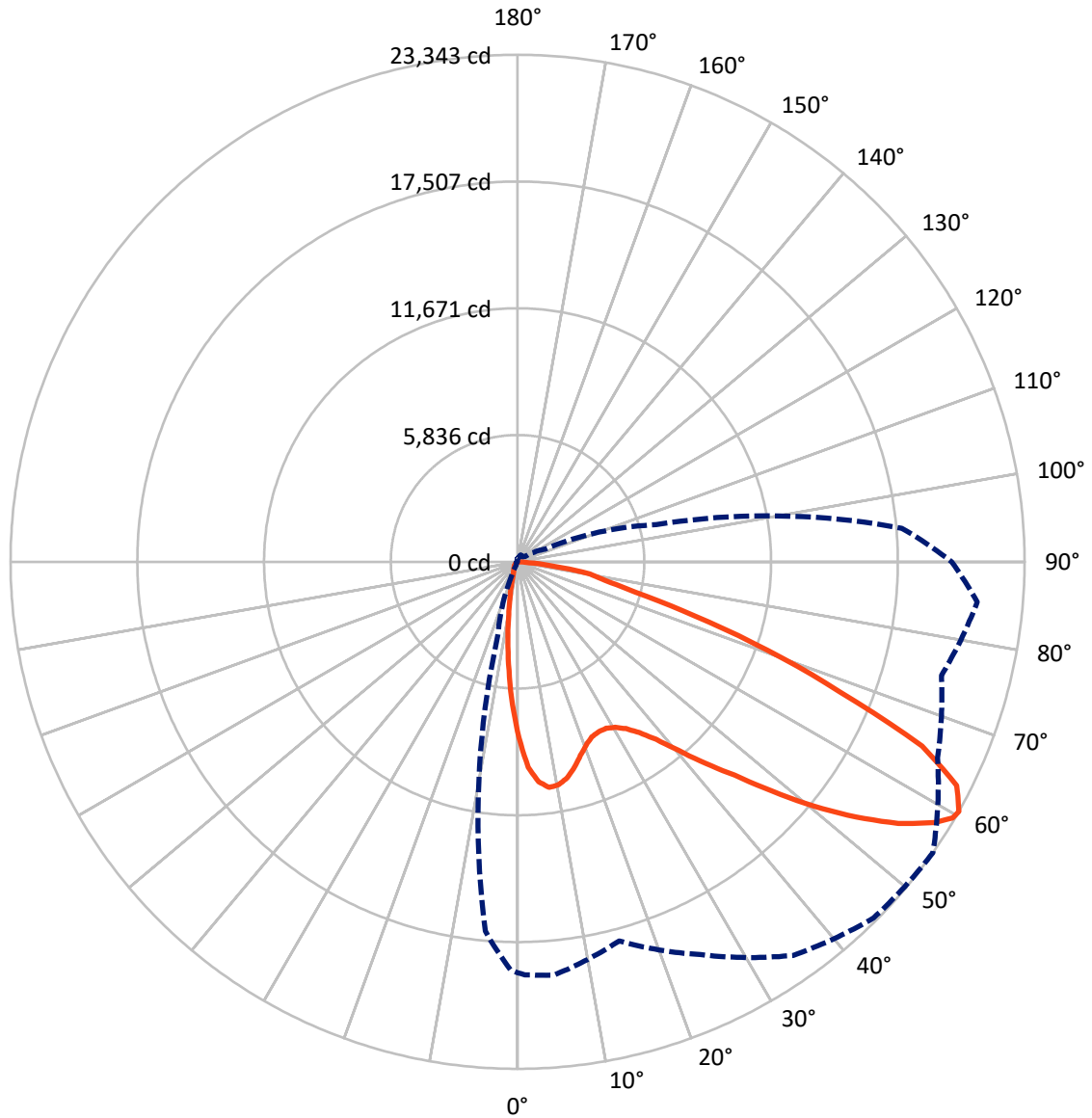
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type III - Short - N/A

REPORT NUMBER: P652506
CATALOG NUMBER: GALN-SA7B-840-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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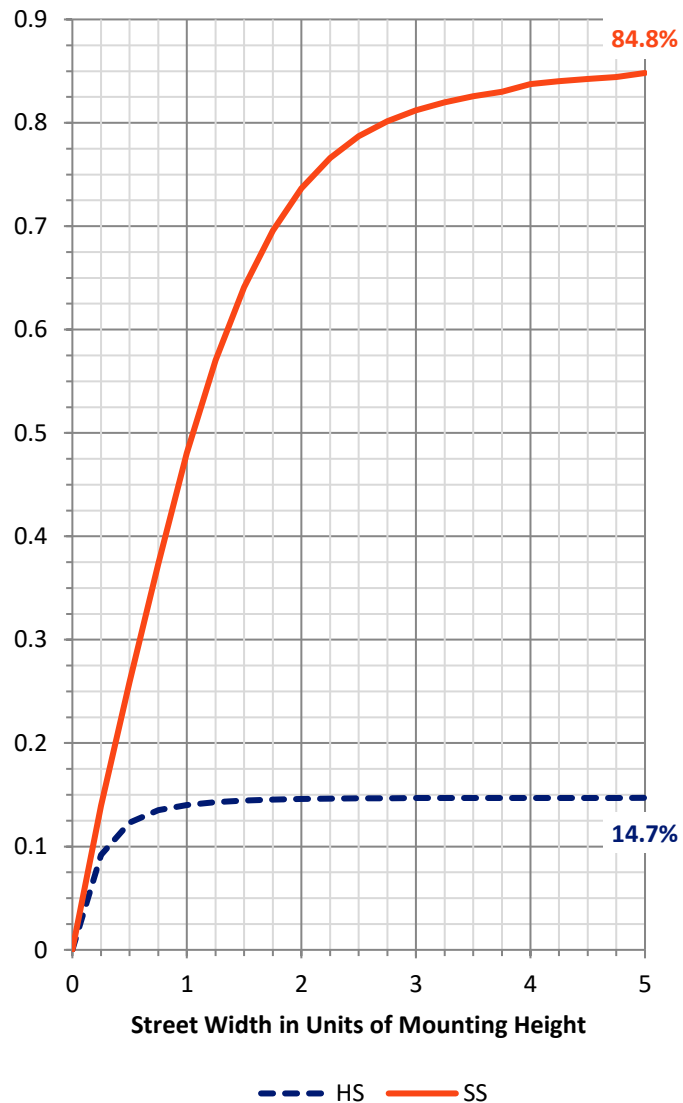
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3552.5	0.0	3552.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	20384.9	0.0	20384.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	23937.4	0.0	23937.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.2	2.5
10°-20°	1181.9	4.9
20°-30°	1749.5	7.3
30°-40°	2607.8	10.9
40°-50°	3819.1	16.0
50°-60°	5513.6	23.0
60°-70°	5800.0	24.2
70°-80°	2385.9	10.0
80°-90°	279.4	1.2
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°	23937.4	100.0
0°-180°	23937.4	100.0

Coefficient of Utilization



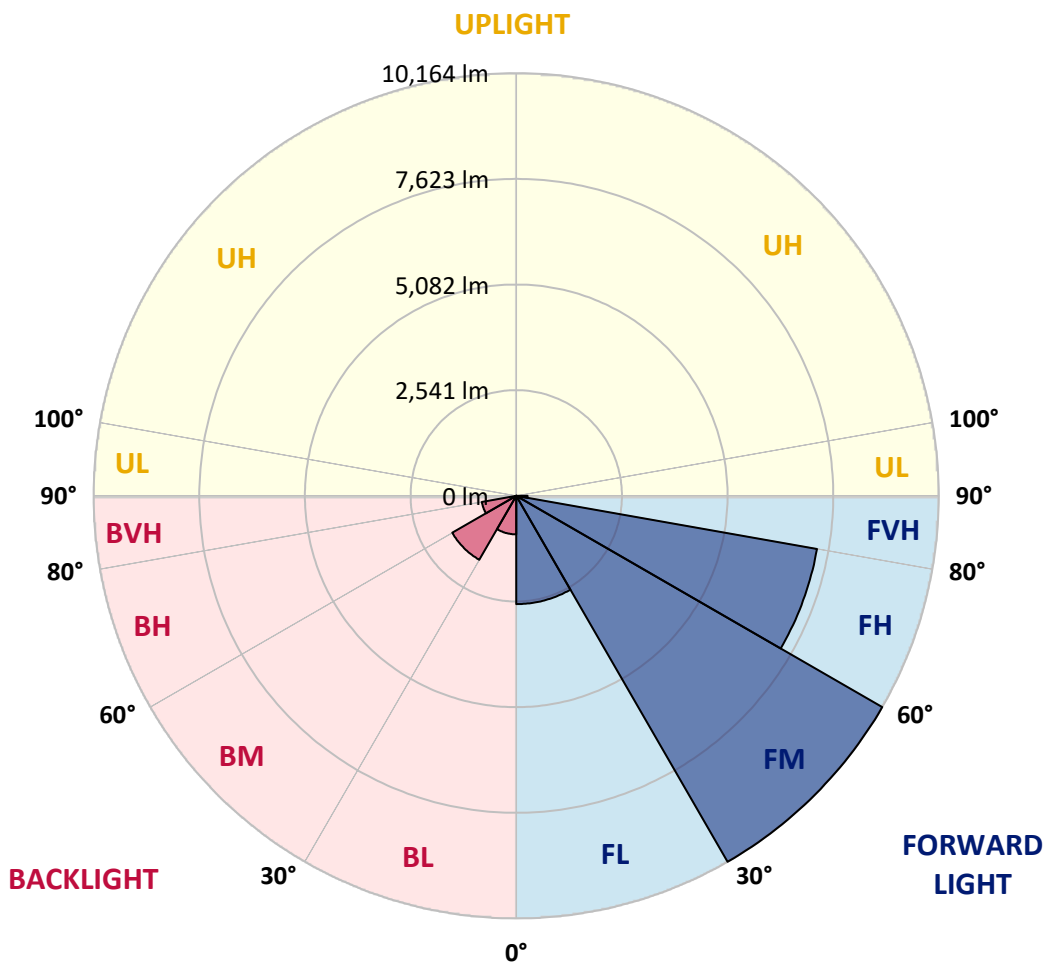
REPORT NUMBER: P652506
 CATALOG NUMBER: GALN-SA7B-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2604.7	10.9			
FM (30°-60°)	10163.9	42.5			
FH (60°-80°)	7345.1	30.7			G3/7500
FVH (80°-90°)	271.2	1.1			G3/500
BL (0°-30°)	926.9	3.9	B2/1000		
BM (30°-60°)	1776.6	7.4	B2/2500		
BH (60°-80°)	840.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G3

Type III Short





REPORT NUMBER: P652506

CATALOG NUMBER: GALN-SA7B-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	8855.1	8840.3	8971.1	9184.8	9400.4	9512.8	9490.7	9481.4	9302.7	9171.9	8897.4
5°	8836.6	8912.2	9146.1	9724.7	10163.2	10375.1	10437.7	10174.2	9826.0	9321.1	8698.4
7.5°	8307.8	8401.8	8783.2	9687.8	10467.2	10927.9	10911.2	10489.3	9770.7	8989.5	8101.4
10°	7651.8	7762.4	8210.2	9308.3	10319.8	10927.9	10961.0	10426.6	9533.1	8530.8	7596.6
12.5°	7189.4	7320.2	7815.8	8954.5	9940.3	10539.1	10577.8	10190.8	9354.4	8353.9	7322.1
15°	7032.8	7156.2	7659.2	8775.8	9536.8	9859.2	9850.0	9809.4	9284.3	8396.2	7336.8
17.5°	7301.8	7403.2	7970.7	8856.9	9159.1	9125.9	9173.8	9369.1	9299.1	8751.9	7801.1
20°	7996.4	8099.6	8709.5	9105.6	8869.8	8659.7	8681.8	9008.0	9435.4	9420.7	8527.1
22.5°	8952.7	9127.7	9680.5	9588.3	8831.1	8370.5	8324.4	8748.2	9667.5	10190.8	9507.3
25°	10163.2	10340.1	10771.2	10358.5	9020.8	8302.3	8259.9	8668.9	9949.5	10942.6	10610.9
27.5°	11180.3	11314.7	11744.1	11108.4	9300.9	8331.8	8261.7	8680.0	10178.0	11581.9	11541.4
30°	11994.7	12094.2	12346.6	11458.5	9542.2	8460.7	8379.6	8842.1	10279.3	11893.3	12295.0
32.5°	12650.6	12818.3	12897.5	11832.5	9888.6	8703.9	8565.8	9153.5	10526.2	12278.3	13085.4
35°	13400.5	13593.9	13492.6	12190.0	10345.6	9083.5	8914.0	9658.4	10900.2	12634.0	14003.0
37.5°	14351.2	14574.1	14178.0	12565.8	10828.4	9654.7	9575.5	10367.7	11467.7	13142.5	14986.9
40°	15335.0	15464.1	14843.1	13022.7	11421.6	10485.7	10561.2	11421.6	12210.2	13752.4	16033.4
42.5°	16103.4	16225.0	15526.7	13406.0	12027.8	11471.4	11786.4	12693.0	13061.4	14377.0	16814.6
45°	16691.2	16794.3	16000.2	13824.3	12845.9	12899.3	13494.4	14003.0	13914.5	14758.4	17417.1
47.5°	17148.1	17236.5	16365.0	14273.8	14071.1	14646.0	15556.1	15771.8	14798.9	15171.1	17962.5
50°	17336.0	17361.9	16479.2	14846.8	15462.2	16871.7	17820.6	17689.8	15812.3	15629.9	18542.9
52.5°	17581.1	17575.6	16805.4	15392.2	16770.4	18861.6	19808.7	19512.0	16958.3	16317.2	19195.1
55°	18224.1	18231.5	17503.7	16166.0	17885.1	20468.3	21481.7	21266.0	18167.0	17477.9	19956.1
57.5°	19005.3	19032.9	18496.8	17070.7	18950.1	21632.7	22730.9	22648.0	19801.3	18769.5	20674.6
59°	19106.7	19161.9	18966.7	17708.2	19582.0	21990.1	23158.3	23239.4	20676.5	19620.7	21063.4
60°	18922.4	19014.5	19103.0	18069.3	19952.4	22119.1	23184.1	23342.5	21334.2	20199.2	21240.3
62.5°	18119.1	18264.7	18708.7	19180.4	20414.9	21717.5	22360.5	22692.2	22148.7	21719.3	21256.9
65°	17067.0	17142.5	17783.8	19377.5	19517.5	19841.8	20040.8	20466.4	21170.2	22305.3	20495.9
67.5°	15342.4	15565.4	16350.3	18233.3	16869.9	16486.6	16436.9	16013.1	17840.9	20908.6	18620.2
70°	12674.5	12774.0	13741.4	14948.2	12731.6	12142.0	12377.8	12219.4	13829.7	17999.3	14986.9
72.5°	9584.6	9809.4	10754.6	11915.4	8663.4	7898.8	8549.2	8490.2	10387.9	14465.5	10295.9
75°	6819.1	6964.7	8169.6	9324.8	6067.3	5140.5	5374.6	5593.8	7252.0	11421.6	6083.9
77.5°	4685.5	4810.8	5715.4	6166.8	4425.7	4239.6	3878.4	4090.4	4751.8	6776.7	3310.9
80°	2826.3	2820.9	3416.0	3526.6	3082.5	3580.0	3003.3	3371.7	2872.4	2900.1	1282.4
82.5°	1835.1	1816.7	2089.4	2277.3	1715.4	1803.8	1210.5	1744.8	1872.0	808.9	405.4
85°	821.7	856.7	1004.2	1324.7	751.8	399.8	246.9	536.1	797.8	407.2	0.0
87.5°	84.8	66.4	176.9	322.4	103.2	11.0	36.8	18.4	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°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	8770.3	8663.4	8344.7	8046.2	7790.1	7476.8	7274.1	6955.4	6762.0	6703.0	6712.2
5°	8418.3	8110.7	7504.5	7019.9	6480.1	6172.4	5704.3	5254.8	5011.6	4921.3	4880.7
7.5°	7681.4	7351.5	6620.1	5859.2	5280.6	4740.7	4392.5	3996.3	3725.5	3502.6	3463.9
10°	7134.1	6701.2	5794.7	4976.6	4519.6	4114.3	3766.1	3369.9	3051.1	2796.9	2726.9
12.5°	6806.2	6321.6	5310.1	4624.7	4191.7	3775.2	3322.0	2863.3	2537.1	2262.5	2135.5
15°	6747.2	6185.2	5173.7	4372.3	3837.9	3334.9	2732.4	2236.8	1901.4	1641.6	1562.4
17.5°	7102.8	6430.3	5153.5	4108.8	3375.4	2662.4	2036.0	1625.1	1247.4	1101.8	1044.7
20°	7736.6	6863.3	5151.6	3802.9	2900.1	2050.7	1429.8	1059.4	906.5	836.5	803.3
22.5°	8600.7	7452.9	5249.3	3539.4	2406.3	1512.7	1020.7	843.9	755.4	698.3	685.4
25°	9656.5	8326.2	5488.8	3360.7	2028.6	1186.6	842.0	722.3	648.6	622.8	611.7
27.5°	10594.3	9162.7	5752.3	3176.5	1757.8	1050.2	781.2	661.4	602.5	582.2	565.7
30°	11403.2	9921.9	5879.4	2933.2	1540.3	961.8	792.3	707.5	630.2	569.4	541.7
32.5°	12077.5	10504.1	5962.3	2712.1	1356.1	786.8	626.5	547.2	512.3	490.1	471.7
35°	12921.4	11134.2	5912.6	2586.8	1262.1	716.7	571.2	471.7	412.7	368.5	350.1
37.5°	13805.8	11764.3	5825.9	2483.6	1219.7	665.1	543.5	447.7	383.2	337.2	313.2
40°	14721.5	12348.4	5724.6	2387.9	1181.0	632.0	527.0	427.5	363.0	313.2	287.5
42.5°	15559.8	12917.8	5684.1	2325.2	1118.4	637.5	514.0	418.2	342.7	291.2	269.0
45°	16237.9	13457.6	5739.4	2292.1	1050.2	628.3	517.7	407.2	326.1	276.4	254.2
47.5°	16962.0	14220.4	5918.1	2258.9	983.9	584.1	545.4	405.4	318.7	267.2	243.2
50°	17804.1	15196.9	6327.1	2177.9	902.8	536.1	580.4	403.5	309.6	256.1	232.1
52.5°	18926.1	16306.1	6749.0	2036.0	784.9	490.1	554.6	398.0	291.2	243.2	219.2
55°	19934.0	17474.2	7106.5	1868.3	635.6	423.8	499.3	374.0	259.8	221.1	199.0
57.5°	20350.3	18133.8	7095.4	1636.2	508.6	372.1	410.9	342.7	226.6	195.3	176.9
59°	20197.5	18050.9	6857.8	1464.8	464.3	344.6	340.9	339.0	211.8	176.9	162.1
60°	19981.8	17748.7	6601.7	1380.0	436.6	326.1	313.2	335.3	199.0	165.8	151.0
62.5°	19156.4	16495.9	5752.3	1236.4	399.8	276.4	250.6	283.8	176.9	143.7	130.8
65°	17960.6	14570.4	4869.7	1195.8	388.8	228.5	208.2	202.7	151.0	121.6	110.6
67.5°	15628.1	12330.0	3944.8	1168.1	392.4	191.6	182.4	152.9	125.3	101.3	93.9
70°	12512.4	9614.1	3229.9	1136.8	396.1	156.6	152.9	121.6	101.3	84.8	77.4
72.5°	7602.1	5698.9	2542.7	987.6	385.1	125.3	136.3	92.1	73.7	60.8	57.1
75°	4700.2	3900.6	1577.2	768.3	254.2	92.1	95.8	57.1	49.8	38.7	38.7
77.5°	2723.2	2463.4	563.8	276.4	112.4	55.3	42.4	29.5	27.7	16.6	16.6
80°	1129.5	904.7	195.3	93.9	60.8	25.8	9.3	1.9	0.0	0.0	0.0
82.5°	329.8	292.9	53.4	42.4	18.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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CATALOG NUMBER: GALN-SA7B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	6555.6	6494.8	6467.1	6561.1	6474.5	6585.1	6500.3	6537.2	6645.8	6693.8	6817.2
5°	4906.6	4843.9	4814.5	4956.3	4948.9	5018.9	5011.6	5076.1	5131.4	5007.9	5135.1
7.5°	3417.8	3375.4	3445.5	3556.0	3673.9	3635.2	3635.2	3548.7	3578.1	3559.7	3554.2
10°	2599.8	2454.2	2417.4	2413.7	2457.9	2467.1	2417.4	2297.6	2341.8	2354.7	2432.1
12.5°	2045.1	1932.8	1761.4	1684.0	1663.8	1680.3	1516.4	1411.4	1461.1	1431.6	1507.2
15°	1466.6	1374.5	1273.2	1186.6	1162.6	1129.5	950.8	825.4	810.7	816.2	829.1
17.5°	1046.5	983.9	983.9	891.8	842.0	742.5	652.3	596.9	591.5	596.9	606.2
20°	772.0	738.8	735.1	711.2	655.9	589.6	527.0	515.9	512.3	521.4	525.1
22.5°	665.1	630.2	600.6	598.8	547.2	492.0	462.5	447.7	449.6	453.2	462.5
25°	595.1	558.3	527.0	508.6	471.7	432.9	405.4	398.0	398.0	403.5	405.4
27.5°	545.4	499.3	471.7	445.9	412.7	379.5	355.6	350.1	346.4	350.1	359.3
30°	510.4	464.3	429.3	390.6	364.8	333.5	313.2	305.9	304.0	305.9	313.2
32.5°	436.6	409.1	381.4	346.4	315.0	294.8	272.7	259.8	259.8	263.5	270.9
35°	329.8	315.0	313.2	304.0	278.2	256.1	230.3	217.4	217.4	224.8	228.5
37.5°	291.2	263.5	259.8	256.1	245.1	215.5	191.6	180.6	178.7	184.3	191.6
40°	265.3	234.0	217.4	213.7	215.5	182.4	156.6	145.6	145.6	147.4	154.7
42.5°	245.1	208.2	178.7	175.0	182.4	152.9	127.2	116.1	116.1	116.1	125.3
45°	228.5	186.1	151.0	132.6	143.7	125.3	103.2	92.1	88.5	92.1	95.8
47.5°	217.4	169.5	132.6	106.9	106.9	99.5	82.9	70.1	66.4	68.2	73.7
50°	208.2	154.7	112.4	86.6	77.4	79.2	62.7	53.4	49.8	49.8	55.3
52.5°	193.4	140.0	97.6	73.7	59.0	53.4	46.1	38.7	36.8	38.7	42.4
55°	175.0	127.2	84.8	60.8	46.1	36.8	33.1	27.7	25.8	27.7	33.1
57.5°	154.7	106.9	68.2	47.9	31.3	24.0	22.1	18.4	14.7	16.6	20.3
59°	141.9	95.8	59.0	38.7	24.0	16.6	16.6	12.9	9.3	11.0	16.6
60°	136.3	88.5	49.8	33.1	20.3	12.9	12.9	9.3	5.6	7.4	12.9
62.5°	116.1	73.7	38.7	20.3	9.3	1.9	5.6	1.9	0.0	1.9	5.6
65°	97.6	59.0	25.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	81.1	44.2	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	64.5	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	44.2	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	27.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P652506
 CATALOG NUMBER: GALN-SA7B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1	8105.1
2.5°	6824.6	7088.1	7250.2	7556.0	7869.3	8110.7	8412.9	8683.7	8796.1	8855.1
5°	5264.0	5630.7	5942.1	6408.2	6841.2	7368.2	7902.5	8532.6	8774.0	8836.6
7.5°	3694.2	4068.3	4394.3	4934.2	5551.4	6257.1	7056.7	7856.4	8208.3	8307.8
10°	2667.9	3067.7	3465.8	4005.6	4582.3	5346.9	6179.8	7169.1	7574.5	7651.8
12.5°	1684.0	2113.3	2760.1	3427.1	4036.9	4652.3	5523.8	6599.8	7047.6	7189.4
15°	976.5	1297.1	1785.4	2655.0	3430.7	4245.1	5195.9	6386.0	6887.2	7032.8
17.5°	654.0	764.6	1099.9	1765.1	2789.5	3869.3	5112.9	6561.1	7115.7	7301.8
20°	550.9	600.6	718.6	1076.0	2148.3	3533.9	5135.1	7036.5	7764.3	7996.4
22.5°	484.6	530.7	606.2	773.9	1499.8	3117.5	5240.0	7716.3	8656.1	8952.7
25°	427.5	473.5	539.8	641.2	1007.9	2636.6	5470.4	8711.3	9837.1	10163.2
27.5°	379.5	421.9	479.0	565.7	775.7	2100.5	5674.9	9680.5	10914.9	11180.3
30°	335.3	370.4	425.6	492.0	644.9	1619.5	5778.1	10528.0	11699.8	11994.7
32.5°	291.2	324.3	377.7	431.2	530.7	1234.5	5706.2	11150.7	12462.6	12650.6
35°	248.8	283.8	328.0	377.7	458.8	996.8	5346.9	11851.0	13253.1	13400.5
37.5°	213.7	243.2	289.3	328.0	414.5	797.8	4912.1	12481.0	14139.3	14351.2
40°	180.6	210.1	256.1	291.2	381.4	628.3	4519.6	13181.2	15073.4	15335.0
42.5°	147.4	182.4	222.9	280.1	328.0	479.0	4044.3	13748.7	15775.4	16103.4
45°	117.9	156.6	200.8	278.2	285.6	364.8	3585.5	14190.9	16396.4	16691.2
47.5°	93.9	132.6	193.4	259.8	234.0	289.3	3323.9	14653.3	16912.3	17148.1
50°	75.5	110.6	202.7	228.5	195.3	245.1	3316.5	15169.3	17179.4	17336.0
52.5°	60.8	90.3	171.3	175.0	165.8	215.5	3515.5	15749.7	17452.1	17581.1
55°	51.6	75.5	112.4	129.0	149.3	195.3	3664.7	16643.2	18102.5	18224.1
57.5°	40.5	64.5	86.6	103.2	132.6	178.7	3685.0	17332.3	18926.1	19005.3
59°	35.0	55.3	77.4	92.1	121.6	167.7	3602.1	17374.7	18979.5	19106.7
60°	29.5	49.8	68.2	86.6	112.4	158.4	3511.8	17067.0	18780.5	18922.4
62.5°	22.1	38.7	49.8	70.1	92.1	136.3	3084.4	15992.9	18019.6	18119.1
65°	14.7	27.7	36.8	51.6	71.8	117.9	2513.2	14599.9	16844.1	17067.0
67.5°	9.3	20.3	29.5	38.7	59.0	99.5	1790.9	12519.7	15198.7	15342.4
70°	5.6	12.9	22.1	31.3	46.1	79.2	1063.1	9896.0	12645.0	12674.5
72.5°	3.7	9.3	14.7	22.1	36.8	71.8	515.9	6450.6	9232.8	9584.6
75°	1.9	5.6	9.3	16.6	29.5	59.0	246.9	4309.6	6717.7	6819.1
77.5°	0.0	1.9	5.6	11.0	22.1	46.1	143.7	2830.0	4580.4	4685.5
80°	0.0	0.0	3.7	9.3	16.6	29.5	86.6	1669.3	2774.8	2826.3
82.5°	0.0	0.0	1.9	7.4	11.0	22.1	44.2	733.4	1816.7	1835.1
85°	0.0	0.0	1.9	7.4	9.3	14.7	16.6	99.5	807.0	821.7
87.5°	0.0	0.0	1.9	9.3	9.3	9.3	9.3	5.6	68.2	84.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)