

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: P652504

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18427.1 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

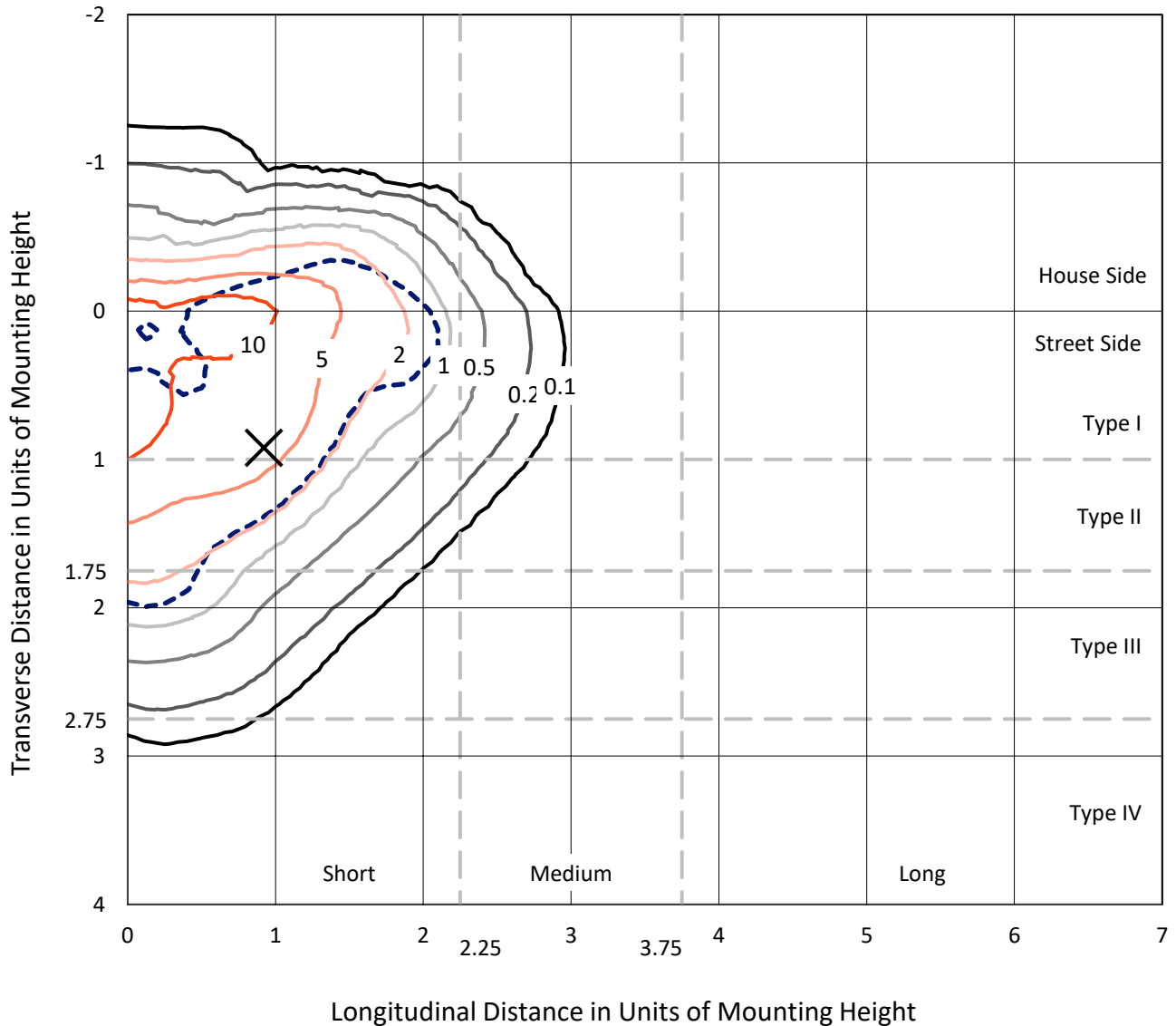
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

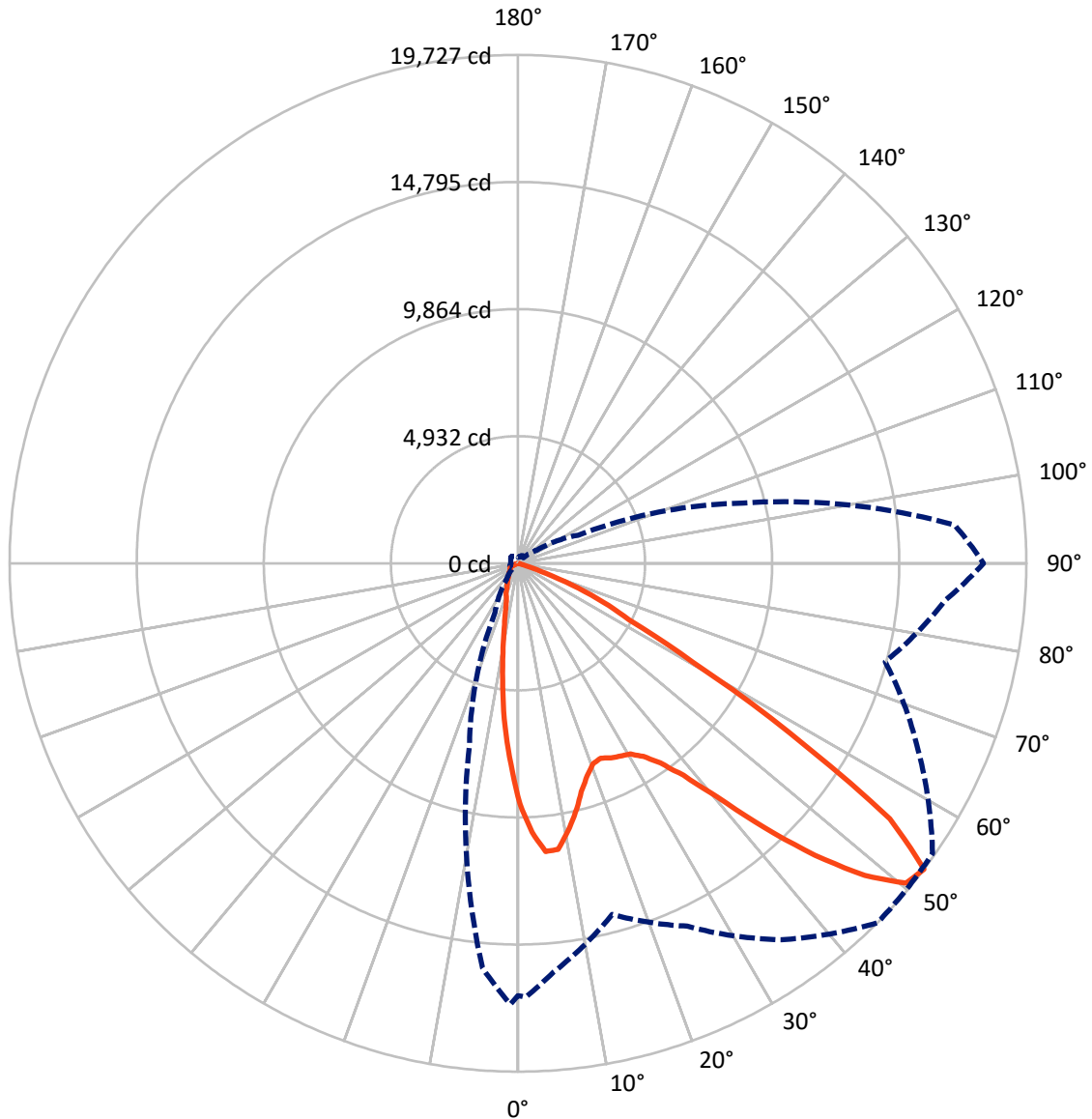
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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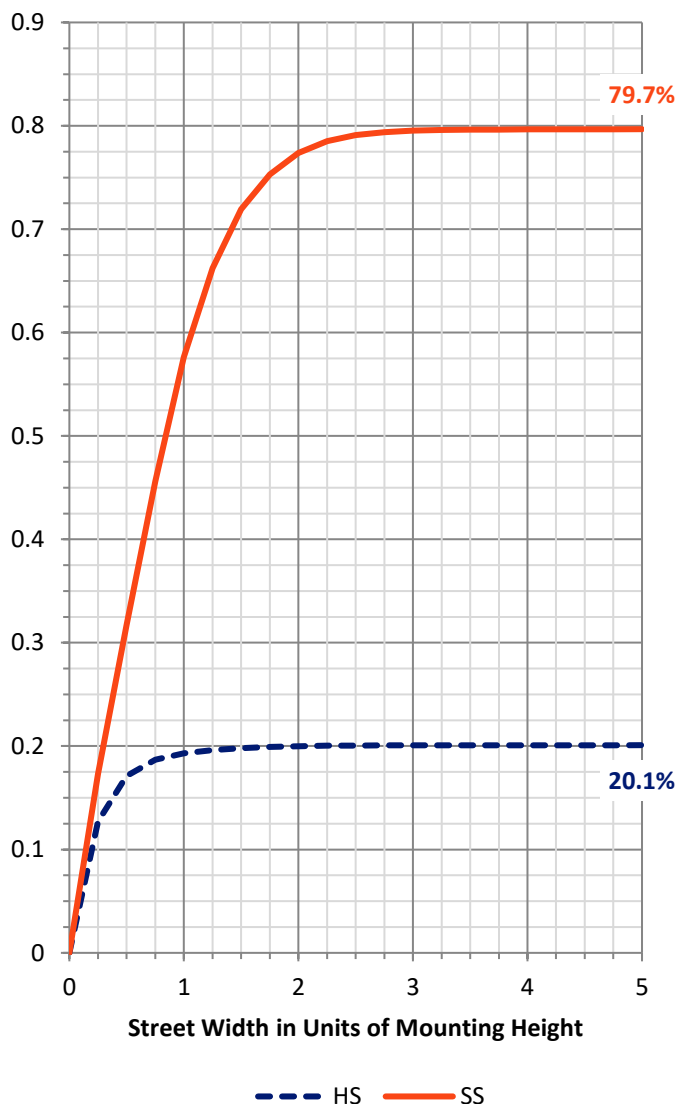
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3739.8	0.0	3739.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14687.3	0.0	14687.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	18427.1	0.0	18427.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.4	3.7
10°-20°	1344.4	7.3
20°-30°	2045.9	11.1
30°-40°	3057.9	16.6
40°-50°	4354.7	23.6
50°-60°	4681.2	25.4
60°-70°	2074.3	11.3
70°-80°	167.8	0.9
80°-90°	19.5	0.1
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°	18427.1	100.0
0°-180°	18427.1	100.0

Coefficient of Utilization



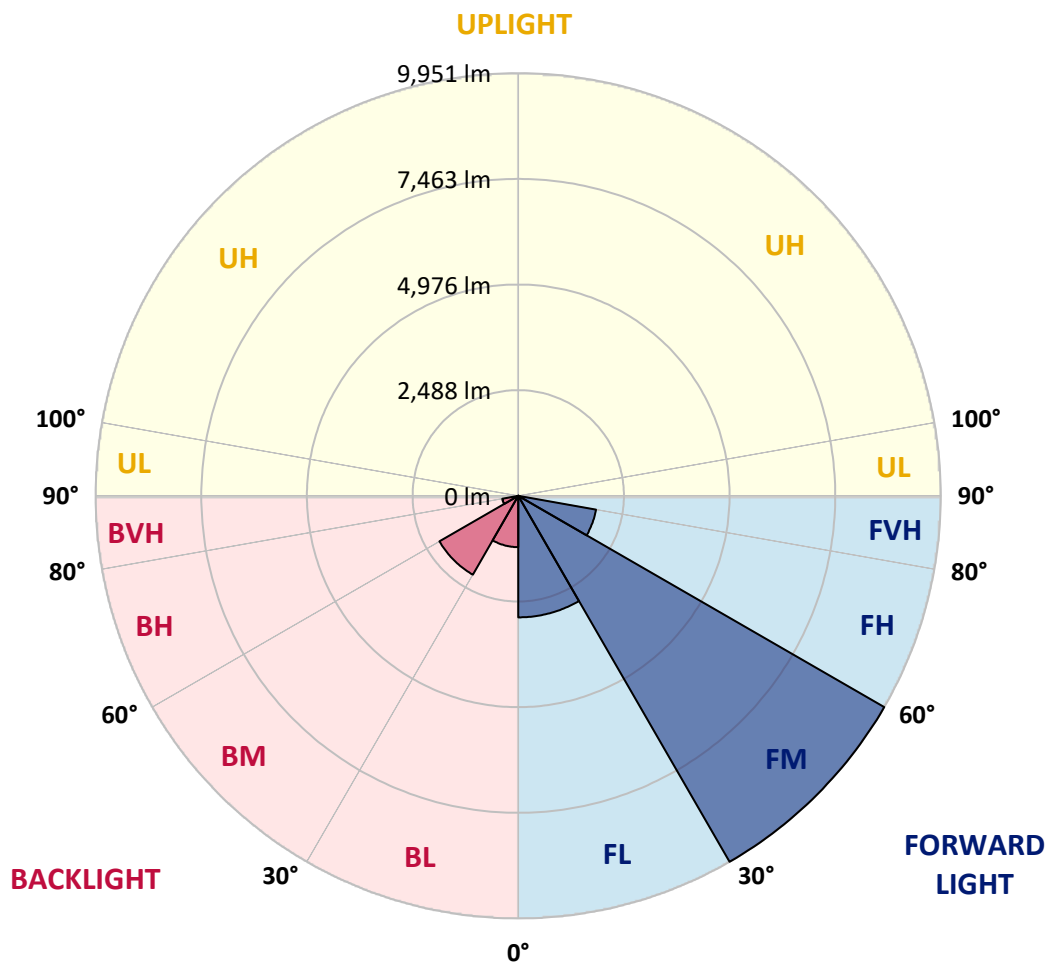
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2862.1	15.5			
FM (30°-60°)	9951.2	54.0			
FH (60°-80°)	1859.5	10.1			G2/5000
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	1209.6	6.6	B3/2500		
BM (30°-60°)	2142.5	11.6	B2/2500		
BH (60°-80°)	382.6	2.1	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4
2.5°	9887.0	9916.1	10075.5	10274.8	10380.0	10619.1	10452.5	10495.9	10405.4	10086.4	9836.3
5°	9586.2	9582.6	9785.6	10278.4	10746.0	11220.8	11235.3	10981.6	10535.8	10046.5	9347.0
7.5°	8680.2	8821.5	9031.8	9818.2	10684.4	11039.6	11209.9	10912.7	10227.7	9528.3	8770.8
10°	7995.2	8067.7	8422.9	9372.4	10006.6	10481.5	10586.6	10416.2	9890.7	9017.2	8169.1
12.5°	7600.1	7636.4	8053.2	8850.5	9521.0	9872.6	9923.3	10003.0	9626.1	8807.0	7788.6
15°	7603.7	7632.7	8194.5	8861.4	9125.9	9031.8	9198.4	9194.8	9357.9	8767.2	8107.6
17.5°	8151.1	8183.7	8691.1	9020.8	8904.8	8683.8	8672.9	8839.7	9184.0	9263.7	8589.6
20°	9093.3	9169.4	9542.7	9524.7	8872.3	8426.5	8303.3	8430.1	9231.1	9684.1	9560.9
22.5°	10361.9	10466.9	10727.9	10227.7	9020.8	8252.5	8212.6	8459.1	9542.7	10622.8	10662.7
25°	11833.3	12010.9	12137.7	11496.2	9550.0	8553.3	8364.8	8788.9	9963.2	11641.2	12065.2
27.5°	12808.3	12993.1	12964.1	12047.2	9905.2	8633.0	8473.6	8868.7	10329.2	11884.1	12797.4
30°	13569.4	13681.7	13884.7	12344.4	10260.4	8857.7	8585.9	9205.7	10448.8	12304.5	13681.7
32.5°	14457.3	14533.4	14547.9	12869.8	10807.6	9140.5	8933.9	9626.1	10978.0	12706.8	14464.5
35°	15352.5	15464.8	15229.2	13518.6	11144.7	9665.9	9513.7	10354.6	11402.0	13123.6	15327.1
37.5°	16323.8	16381.8	15838.1	13786.8	11626.7	10521.3	10438.0	11141.1	12137.7	13877.4	16283.9
40°	17139.2	17193.7	16486.9	14116.6	12134.1	11717.3	11931.2	12641.5	13138.0	14366.7	16762.3
42.5°	17592.3	17719.2	16704.4	13935.4	13152.6	13072.8	14022.4	14272.4	14297.8	14504.4	17190.0
45°	17715.5	17657.6	16345.6	14084.0	14044.1	15301.7	16164.4	16494.1	15450.3	14758.1	17298.8
47.5°	17146.6	17222.7	15816.4	13953.5	15214.8	16990.6	18107.0	18719.5	16309.3	14537.0	17030.5
50°	16686.2	16588.4	15646.0	13859.3	15530.1	17788.0	19509.5	19647.3	17099.4	14808.8	16737.0
52.5°	16776.9	16838.4	15917.9	14109.4	15537.3	17835.2	19727.0	19632.8	17124.8	14747.3	16631.9
55°	16968.9	16697.1	15801.9	13558.4	14497.2	16519.5	17508.9	17364.0	15805.5	14091.2	16374.5
57.5°	14642.1	15062.6	14529.8	12105.1	11898.6	12445.8	12427.7	12873.5	11789.8	12126.9	14906.7
60°	11884.1	11956.5	12155.9	10354.6	8234.4	8045.9	7785.0	7502.3	7933.6	10369.1	13558.4
62.5°	10452.5	10365.5	11075.8	9419.5	5813.3	4867.5	4823.9	4997.9	6121.4	9890.7	12717.6
65°	7596.5	7705.2	8219.8	7310.2	4363.6	3714.9	3649.7	4164.3	4954.4	7926.3	9705.8
67.5°	4639.1	4849.3	4896.4	4508.6	2961.1	2352.2	2257.9	2725.4	3577.2	5128.3	5690.1
70°	2141.9	2395.7	2634.9	2460.9	1714.3	967.7	913.3	1145.3	1804.9	2950.1	3019.0
72.5°	648.7	652.4	913.3	953.2	554.6	217.5	192.1	253.7	612.5	975.0	1025.7
75°	47.1	50.7	123.2	141.4	105.1	54.3	58.0	68.9	130.4	217.5	163.1
77.5°	3.6	3.6	3.6	18.1	32.6	36.2	47.1	54.3	68.9	79.7	72.5
80°	3.6	0.0	3.6	14.5	25.4	36.2	43.5	50.7	54.3	61.6	54.3
82.5°	0.0	0.0	0.0	10.8	25.4	36.2	39.9	54.3	61.6	72.5	61.6
85°	0.0	0.0	0.0	10.8	25.4	39.9	36.2	18.1	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4
2.5°	9879.8	9738.4	9415.9	9252.9	8868.7	8814.3	8437.3	8375.8	8248.9	8180.0	8013.3
5°	9039.0	8868.7	8343.1	7900.9	7386.3	7027.5	6752.1	6501.9	6357.0	6222.9	6284.5
7.5°	8354.0	7857.5	7274.0	6534.6	5940.2	5556.1	5135.7	4791.3	4588.3	4450.7	4483.3
10°	7636.4	7313.8	6501.9	5672.0	4954.4	4682.6	4352.8	4088.2	3801.9	3555.4	3439.4
12.5°	7411.6	6933.3	5914.8	5070.4	4526.8	4262.2	3885.3	3580.8	3214.7	2913.9	2808.9
15°	7451.5	6991.2	5755.4	4852.9	4211.4	3754.7	3305.4	2928.4	2526.1	2315.9	2207.2
17.5°	8100.3	7302.9	5860.5	4624.6	3772.9	3138.6	2584.1	2105.7	1804.9	1587.5	1540.3
20°	8897.6	7977.1	6085.2	4457.9	3414.1	2497.1	1888.3	1475.1	1225.0	1188.8	1177.9
22.5°	10064.7	9078.8	6567.2	4345.5	2975.5	1946.2	1293.9	1072.8	1003.9	996.7	1000.3
25°	11695.6	10459.7	7092.7	4251.3	2645.7	1500.4	1058.3	909.7	887.9	877.1	895.2
27.5°	12402.3	11293.3	7371.8	4048.3	2344.9	1351.8	1043.8	902.5	840.8	822.8	833.6
30°	13275.8	11847.8	7810.4	3700.4	1902.8	1112.6	975.0	982.2	953.2	862.6	833.6
32.5°	14435.5	12540.1	8031.5	3454.0	1699.8	920.6	714.0	656.0	732.1	746.6	772.0
35°	15178.5	13243.1	8143.8	3309.0	1594.7	786.5	605.3	550.9	532.8	536.4	550.9
37.5°	16559.4	14192.7	8285.1	3156.8	1515.0	685.0	547.2	496.5	471.1	471.1	485.7
40°	17385.7	14946.6	8477.2	3073.4	1435.3	623.3	496.5	453.0	431.3	431.3	438.5
42.5°	17592.3	15319.9	8412.0	3044.4	1344.6	608.9	453.0	420.4	395.0	391.4	387.8
45°	17962.0	15888.9	8422.9	3011.8	1250.4	554.6	427.6	391.4	355.2	351.5	347.9
47.5°	18367.9	16298.4	8444.6	2885.0	1159.7	463.9	445.8	362.5	318.9	311.7	311.7
50°	18019.9	16624.6	8633.0	2758.1	1043.8	376.9	438.5	340.7	282.7	271.8	275.4
52.5°	18063.5	17008.8	9031.8	2580.5	898.9	300.8	355.2	322.5	257.3	239.2	242.8
55°	17367.6	16602.9	9086.1	2392.1	703.1	231.9	271.8	282.7	217.5	210.2	210.2
57.5°	14950.2	14058.7	8016.9	1939.0	463.9	192.1	195.7	246.4	188.5	181.2	184.9
60°	12793.7	11286.1	6451.2	1279.4	290.0	152.2	141.4	250.1	166.7	163.1	174.0
62.5°	11663.0	9274.5	4892.8	793.7	199.3	116.0	97.9	202.9	145.0	145.0	159.5
65°	8426.5	6230.1	2845.1	416.8	141.4	90.6	72.5	116.0	119.6	123.2	130.4
67.5°	5219.0	3145.8	1199.6	202.9	94.2	61.6	47.1	72.5	79.7	79.7	87.0
70°	2576.9	1254.0	398.6	116.0	72.5	50.7	32.6	39.9	39.9	36.2	39.9
72.5°	797.4	376.9	101.5	72.5	50.7	32.6	18.1	14.5	7.2	0.0	3.6
75°	90.6	72.5	65.3	50.7	32.6	14.5	3.6	0.0	0.0	0.0	0.0
77.5°	54.3	61.6	61.6	50.7	32.6	10.8	0.0	0.0	0.0	0.0	0.0
80°	43.5	47.1	50.7	47.1	29.0	14.5	0.0	0.0	0.0	0.0	0.0
82.5°	54.3	61.6	68.9	61.6	39.9	18.1	7.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.8	3.6	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4
2.5°	7944.4	7864.7	7977.1	7810.4	7806.8	7810.4	7763.3	7719.7	7788.6	7973.4	7991.6
5°	6063.4	6233.7	6288.2	6465.8	6367.9	6222.9	6251.9	6154.0	6393.3	6498.3	6415.0
7.5°	4414.4	4403.5	4769.6	4791.3	4838.4	4842.1	4834.8	4642.7	4447.0	4490.5	4621.0
10°	3425.0	3240.1	3417.7	3399.6	3515.5	3482.9	3530.1	3323.5	3392.3	3392.3	3475.7
12.5°	2790.7	2595.0	2562.4	2515.3	2562.4	2580.5	2598.6	2558.7	2674.7	2729.1	2787.1
15°	2131.1	2022.4	1993.3	1902.8	1917.2	1968.0	2011.5	2029.6	1993.3	2076.7	2084.0
17.5°	1547.6	1543.9	1562.1	1558.5	1543.9	1533.1	1529.4	1482.3	1467.8	1475.1	1504.0
20°	1174.3	1203.3	1264.9	1326.5	1359.1	1319.3	1264.9	1185.1	1152.5	1159.7	1163.4
22.5°	1003.9	1047.4	1130.8	1199.6	1232.2	1159.7	1061.9	993.1	978.6	975.0	971.3
25°	909.7	960.4	1022.1	1043.8	1040.1	996.7	924.2	895.2	887.9	880.7	848.1
27.5°	859.0	877.1	887.9	913.3	924.2	895.2	877.1	833.6	826.4	826.4	804.6
30°	830.0	819.0	833.6	815.4	830.0	808.2	811.8	811.8	793.7	801.0	801.0
32.5°	772.0	775.6	775.6	739.3	750.3	724.9	750.3	772.0	775.6	779.2	808.2
35°	565.4	630.7	663.2	663.2	674.1	656.0	652.4	627.0	594.4	561.8	547.2
37.5°	496.5	521.9	565.4	590.7	608.9	594.4	561.8	521.9	503.8	489.3	474.7
40°	442.2	463.9	492.9	521.9	558.2	540.0	489.3	471.1	449.4	449.4	434.9
42.5°	398.6	409.6	427.6	471.1	511.0	474.7	438.5	424.0	413.2	409.6	406.0
45°	358.8	362.5	380.6	416.8	463.9	427.6	391.4	373.3	376.9	380.6	376.9
47.5°	322.5	329.8	340.7	384.2	413.2	395.0	355.2	344.3	344.3	344.3	347.9
50°	279.0	297.2	318.9	355.2	376.9	366.1	333.5	318.9	311.7	311.7	315.3
52.5°	250.1	264.6	293.6	337.1	366.1	347.9	315.3	293.6	279.0	275.4	282.7
55°	217.5	242.8	290.0	322.5	362.5	344.3	308.1	282.7	257.3	253.7	253.7
57.5°	195.7	235.6	279.0	318.9	351.5	337.1	308.1	275.4	242.8	239.2	239.2
60°	184.9	228.3	271.8	308.1	351.5	329.8	304.4	268.2	231.9	231.9	228.3
62.5°	174.0	213.9	257.3	293.6	337.1	318.9	293.6	257.3	221.1	221.1	213.9
65°	145.0	184.9	213.9	246.4	293.6	275.4	250.1	224.7	195.7	188.5	192.1
67.5°	101.5	126.8	155.8	188.5	217.5	210.2	199.3	181.2	155.8	152.2	148.6
70°	50.7	68.9	94.2	126.8	152.2	145.0	137.8	123.2	108.7	105.1	105.1
72.5°	7.2	21.8	39.9	58.0	79.7	83.3	79.7	76.1	72.5	68.9	72.5
75°	0.0	0.0	0.0	14.5	32.6	39.9	47.1	54.3	54.3	47.1	58.0
77.5°	0.0	0.0	0.0	0.0	3.6	18.1	36.2	47.1	58.0	50.7	68.9
80°	0.0	0.0	0.0	0.0	3.6	21.8	36.2	50.7	58.0	50.7	72.5
82.5°	0.0	0.0	0.0	0.0	3.6	25.4	36.2	47.1	54.3	50.7	65.3
85°	0.0	0.0	0.0	0.0	10.8	21.8	14.5	7.2	3.6	3.6	10.8
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: P652504

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4	9343.4
2.5°	8093.0	8350.4	8625.8	8730.9	9057.1	9303.6	9470.2	9829.1	9883.4	9887.0
5°	6501.9	6632.5	7103.6	7324.7	7810.4	8187.3	8589.6	9169.4	9557.3	9586.2
7.5°	4621.0	4983.4	5182.7	5759.0	6357.0	6947.8	7545.8	8219.8	8669.3	8680.2
10°	3718.5	3954.1	4309.3	4740.5	5244.3	5846.0	6643.3	7426.2	7882.9	7995.2
12.5°	2993.6	3406.8	3812.8	4258.6	4642.7	5095.8	5954.7	6998.5	7375.4	7600.1
15°	2305.0	2681.9	3160.4	3682.3	4117.2	4722.5	5701.0	6893.4	7527.6	7603.7
17.5°	1699.8	2036.8	2479.0	2971.9	3624.3	4483.3	5744.5	7426.2	8024.1	8151.1
20°	1221.4	1417.1	1765.0	2337.6	3167.6	4204.2	5788.0	7966.2	8875.9	9093.3
22.5°	967.7	1047.4	1275.7	1783.2	2656.6	3910.6	6096.1	8999.1	10046.5	10361.9
25°	840.8	884.3	993.1	1406.2	2334.0	3881.6	6589.0	10238.6	11605.0	11833.3
27.5°	811.8	819.0	913.3	1290.3	2160.1	3689.6	6777.5	11119.4	12576.3	12808.3
30°	855.3	971.3	978.6	1090.9	1837.5	3309.0	6875.3	11971.0	13399.0	13569.4
32.5°	739.3	703.1	728.5	844.4	1616.4	3087.9	7060.1	12714.0	14337.7	14457.3
35°	514.6	540.0	598.0	732.1	1413.5	2856.0	7107.2	13533.1	15229.2	15352.5
37.5°	474.7	489.3	536.4	623.3	1243.2	2725.4	7042.0	14131.1	16153.4	16323.8
40°	442.2	460.3	485.7	565.4	1116.3	2580.5	6951.4	14671.2	16718.8	17139.2
42.5°	416.8	431.3	453.0	540.0	1007.5	2435.5	6824.5	15432.3	17226.3	17592.3
45°	387.8	409.6	434.9	525.5	946.0	2337.6	6730.3	15385.1	17519.8	17715.5
47.5°	358.8	395.0	424.0	489.3	927.8	2290.5	6770.1	15207.6	17280.6	17146.6
50°	329.8	376.9	427.6	406.0	884.3	2196.4	6817.3	15450.3	16711.6	16686.2
52.5°	304.4	358.8	398.6	333.5	786.5	2105.7	7274.0	15769.3	17113.9	16776.9
55°	268.2	322.5	318.9	268.2	637.9	2036.8	7632.7	15776.6	16842.1	16968.9
57.5°	242.8	286.4	250.1	224.7	471.1	1703.4	7049.3	13228.7	14417.4	14642.1
60°	224.7	279.0	188.5	177.6	308.1	1228.6	6154.0	10245.9	11460.0	11884.1
62.5°	206.5	264.6	148.6	145.0	213.9	873.5	5059.5	8575.1	9876.2	10452.5
65°	181.2	188.5	119.6	112.4	152.2	471.1	3080.7	5904.0	7382.7	7596.5
67.5°	148.6	145.0	97.9	90.6	101.5	228.3	1359.1	2957.5	4280.3	4639.1
70°	119.6	119.6	83.3	72.5	72.5	105.1	355.2	1177.9	1935.4	2141.9
72.5°	87.0	90.6	65.3	58.0	54.3	50.7	58.0	235.6	507.4	648.7
75°	76.1	79.7	65.3	50.7	39.9	32.6	25.4	21.8	29.0	47.1
77.5°	83.3	83.3	68.9	47.1	36.2	25.4	14.5	7.2	7.2	3.6
80°	105.1	108.7	90.6	61.6	43.5	29.0	18.1	7.2	3.6	3.6
82.5°	112.4	123.2	101.5	76.1	54.3	32.6	18.1	3.6	0.0	0.0
85°	29.0	47.1	79.7	68.9	54.3	32.6	18.1	3.6	0.0	0.0
87.5°	0.0	3.6	10.8	10.8	14.5	14.5	10.8	3.6	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

(END OF REPORT)