

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: P652614

Luminaire Tested: **GALN-SA9B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652614
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-SA9B-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 23983.6 lumens
Efficiency: N/A
Efficacy: 65.9 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): 364
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

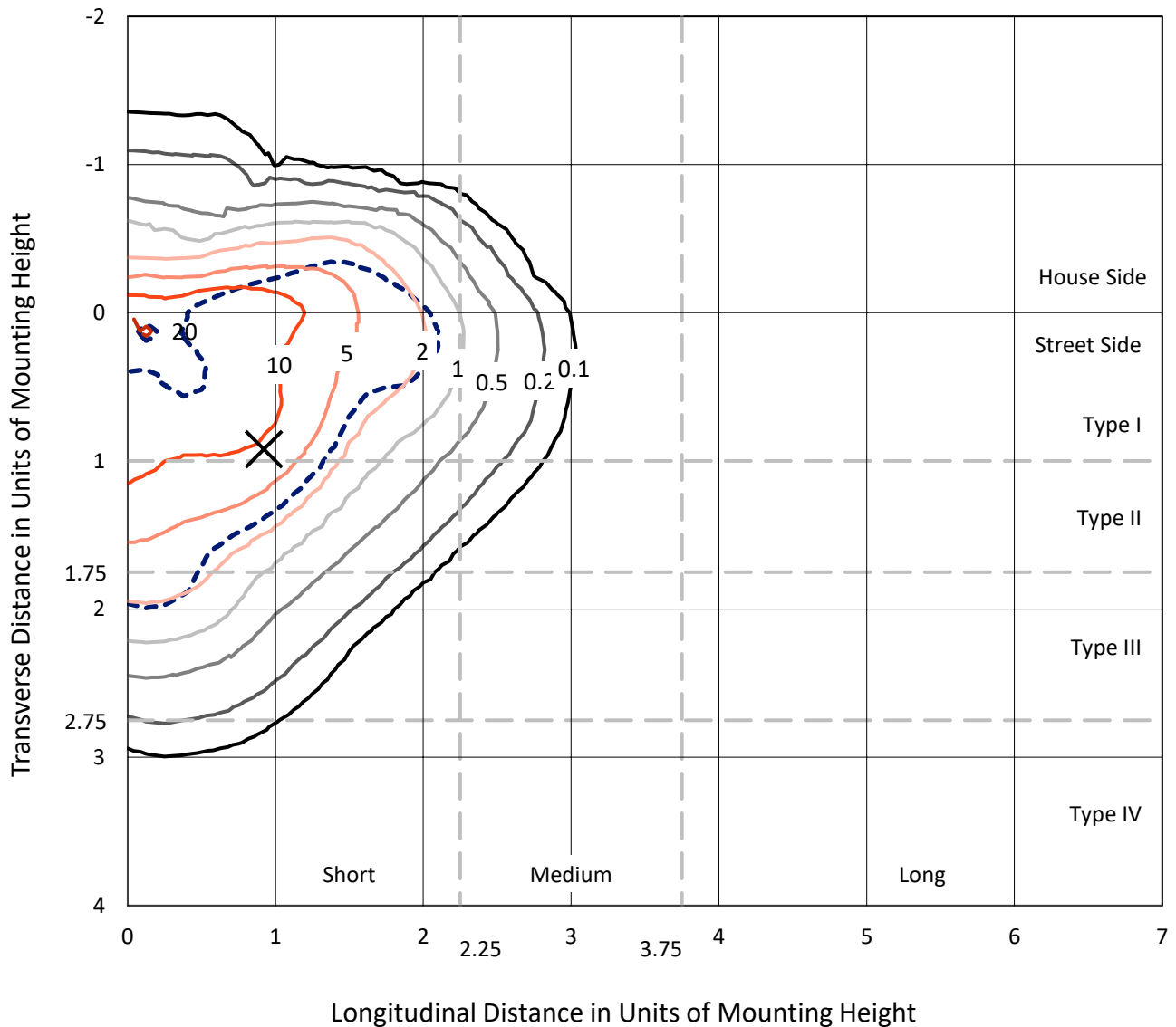




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Iso-Footcandle Lines of Horizontal Illumination

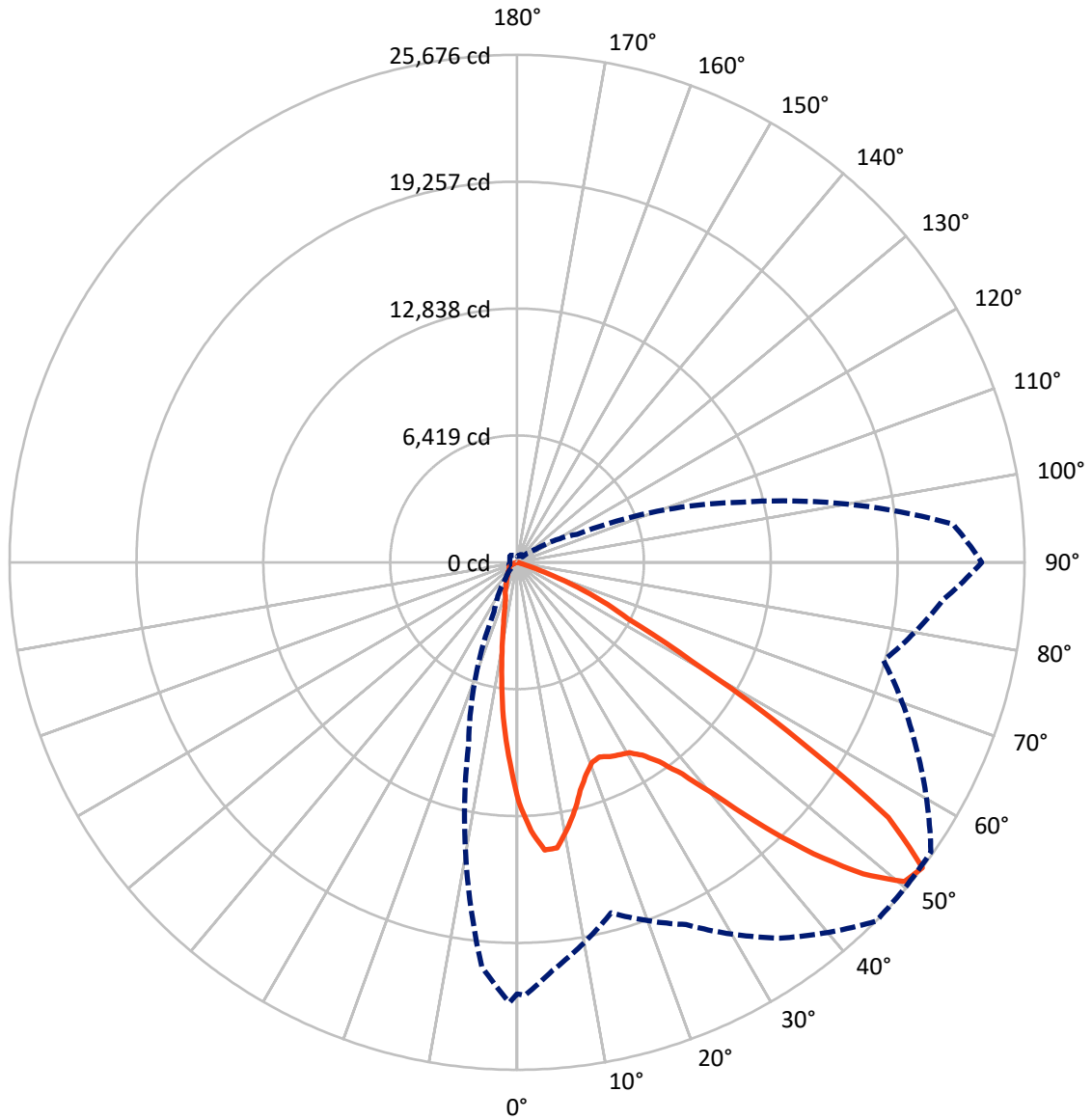
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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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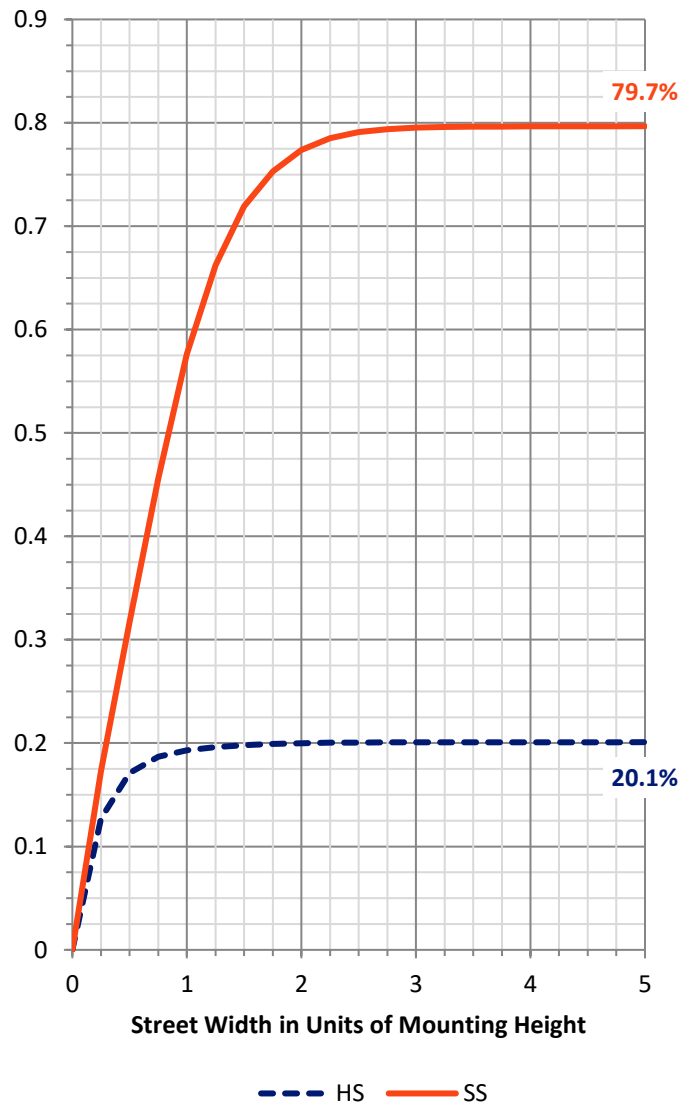
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4867.5	0.0	4867.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	19116.2	0.0	19116.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	23983.6	0.0	23983.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.9	3.7
10°-20°	1749.8	7.3
20°-30°	2662.9	11.1
30°-40°	3979.9	16.6
40°-50°	5667.8	23.6
50°-60°	6092.7	25.4
60°-70°	2699.8	11.3
70°-80°	218.4	0.9
80°-90°	25.4	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°	23983.6	100.0
0°-180°	23983.6	100.0

Coefficient of Utilization



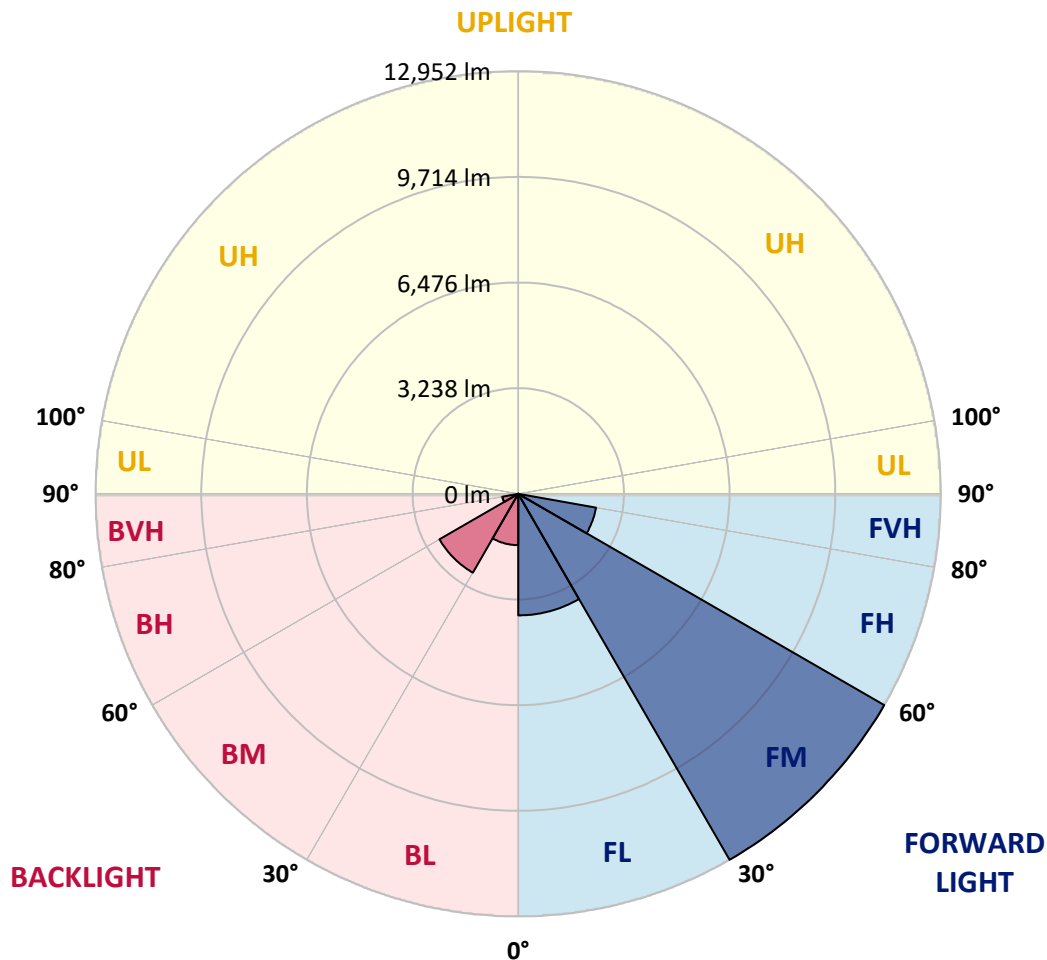
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3725.2	15.5			
FM (30°-60°)	12951.9	54.0			
FH (60°-80°)	2420.2	10.1			G2/5000
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	1574.3	6.6	B3/2500		
BM (30°-60°)	2788.5	11.6	B3/5000		
BH (60°-80°)	498.0	2.1	B1/500		G1/500
BVH (80°-90°)	6.6	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°	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9
2.5°	12868.4	12906.2	13113.7	13373.2	13509.9	13821.2	13604.3	13660.9	13543.0	13127.8	12802.4
5°	12476.9	12472.1	12736.3	13377.9	13986.3	14604.3	14623.1	14293.0	13712.8	13076.0	12165.6
7.5°	11297.6	11481.6	11755.2	12778.7	13906.2	14368.5	14590.2	14203.3	13311.8	12401.4	11415.5
10°	10406.0	10500.4	10962.7	12198.5	13024.1	13642.0	13778.8	13557.1	12873.1	11736.2	10632.4
12.5°	9891.8	9939.0	10481.6	11519.3	12392.0	12849.6	12915.6	13019.4	12528.8	11462.7	10137.2
15°	9896.6	9934.3	10665.5	11533.5	11877.8	11755.2	11972.1	11967.4	12179.7	11410.8	10552.3
17.5°	10608.9	10651.3	11311.7	11741.0	11590.1	11302.3	11288.2	11505.1	11953.3	12057.1	11179.7
20°	11835.3	11934.4	12420.2	12396.7	11547.6	10967.4	10807.0	10972.1	12014.6	12604.2	12443.9
22.5°	13486.4	13623.1	13962.8	13311.8	11741.0	10740.9	10689.0	11009.9	12420.2	13826.0	13877.8
25°	15401.5	15632.7	15797.8	14962.8	12429.7	11132.5	10887.2	11439.1	12967.5	15151.5	15703.4
27.5°	16670.4	16911.0	16873.2	15679.9	12891.9	11236.3	11028.7	11542.9	13443.9	15467.5	16656.3
30°	17661.0	17807.2	18071.4	16066.6	13354.2	11528.7	11175.0	11981.6	13599.6	16014.7	17807.2
32.5°	18816.7	18915.8	18934.6	16750.6	14066.6	11896.6	11627.8	12528.8	14288.3	16538.3	18826.1
35°	19981.8	20128.1	19821.4	17595.0	14505.2	12580.7	12382.5	13476.9	14840.2	17080.8	19948.9
37.5°	21246.0	21321.5	20613.9	17944.1	15132.6	13693.9	13585.4	14500.5	15797.8	18062.0	21194.1
40°	22307.4	22378.2	21458.4	18373.3	15793.1	15250.5	15528.9	16453.4	17099.7	18698.8	21816.8
42.5°	22897.1	23062.2	21741.4	18137.4	17118.6	17014.8	18250.6	18576.2	18609.1	18878.0	22373.5
45°	23057.4	22982.0	21274.4	18330.9	18279.0	19915.8	21038.5	21467.8	20109.2	19208.3	22515.0
47.5°	22316.9	22415.9	20585.7	18161.1	19802.6	22114.0	23566.9	24364.1	21227.2	18920.5	22165.9
50°	21717.7	21590.4	20364.0	18038.4	20213.0	23151.8	25392.4	25571.7	22255.6	19274.3	21783.8
52.5°	21835.7	21915.9	20717.7	18363.9	20222.4	23213.1	25675.5	25552.8	22288.5	19194.1	21647.0
55°	22085.7	21731.9	20566.8	17646.9	18868.6	21500.8	22788.6	22599.9	20571.5	18340.3	21312.1
57.5°	19057.3	19604.5	18911.1	15755.3	15486.4	16198.7	16175.1	16755.3	15344.9	15783.6	19401.6
60°	15467.5	15561.9	15821.3	13476.9	10717.4	10472.0	10132.5	9764.5	10325.9	13495.8	17646.9
62.5°	13604.3	13491.1	14415.6	12259.8	7566.3	6335.2	6278.6	6505.0	7967.3	12873.1	16552.5
65°	9887.1	10028.7	10698.5	9514.5	5679.4	4835.1	4750.1	5420.0	6448.4	10316.4	12632.5
67.5°	6038.0	6311.5	6372.8	5868.2	3853.9	3061.4	2938.8	3547.3	4655.9	6674.8	7405.9
70°	2787.8	3118.0	3429.3	3202.9	2231.2	1259.5	1188.8	1490.6	2349.2	3839.8	3929.4
72.5°	844.4	849.1	1188.8	1240.6	721.7	283.0	250.0	330.2	797.2	1268.9	1334.9
75°	61.3	66.0	160.4	184.0	136.8	70.7	75.4	89.7	169.8	283.0	212.3
77.5°	4.7	4.7	4.7	23.5	42.5	47.2	61.3	70.7	89.7	103.8	94.4
80°	4.7	0.0	4.7	18.8	33.1	47.2	56.6	66.0	70.7	80.2	70.7
82.5°	0.0	0.0	0.0	14.1	33.1	47.2	51.9	70.7	80.2	94.4	80.2
85°	0.0	0.0	0.0	14.1	33.1	51.9	47.2	23.5	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°	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9
2.5°	12859.0	12675.0	12255.1	12042.9	11542.9	11472.1	10981.5	10901.4	10736.2	10646.6	10429.7
5°	11764.6	11542.9	10858.9	10283.4	9613.6	9146.5	8788.0	8462.6	8273.9	8099.3	8179.6
7.5°	10873.0	10226.8	9467.3	8505.0	7731.4	7231.4	6684.2	6236.1	5971.9	5792.6	5835.1
10°	9939.0	9519.2	8462.6	7382.4	6448.4	6094.6	5665.3	5320.9	4948.3	4627.5	4476.6
12.5°	9646.6	9023.9	7698.4	6599.3	5891.7	5547.4	5056.8	4660.6	4184.1	3792.6	3655.8
15°	9698.5	9099.4	7490.9	6316.2	5481.3	4887.0	4302.1	3811.5	3287.9	3014.2	2872.8
17.5°	10542.9	9505.1	7627.6	6019.1	4910.5	4085.1	3363.3	2740.7	2349.2	2066.1	2004.8
20°	11580.6	10382.5	7920.1	5802.1	4443.6	3250.1	2457.7	1919.9	1594.4	1547.2	1533.1
22.5°	13099.5	11816.5	8547.5	5655.9	3872.8	2533.1	1684.0	1396.3	1306.7	1297.2	1302.0
25°	15222.3	13613.7	9231.5	5533.2	3443.6	1952.9	1377.4	1184.0	1155.7	1141.6	1165.1
27.5°	16142.1	14698.7	9594.7	5269.0	3052.0	1759.5	1358.6	1174.5	1094.4	1070.8	1085.0
30°	17278.9	15420.4	10165.5	4816.2	2476.5	1448.2	1268.9	1278.3	1240.6	1122.7	1085.0
32.5°	18788.4	16321.4	10453.2	4495.5	2212.3	1198.2	929.3	853.8	952.9	971.7	1004.7
35°	19755.4	17236.5	10599.5	4306.8	2075.6	1023.6	787.8	717.0	693.4	698.1	717.0
37.5°	21552.6	18472.4	10783.4	4108.6	1971.8	891.5	712.3	646.2	613.3	613.3	632.1
40°	22628.2	19453.5	11033.4	4000.1	1868.0	811.3	646.2	589.6	561.4	561.4	570.8
42.5°	22897.1	19939.4	10948.5	3962.4	1750.0	792.5	589.6	547.2	514.2	509.5	504.8
45°	23378.2	20680.0	10962.7	3920.0	1627.4	721.7	556.7	509.5	462.3	457.6	452.9
47.5°	23906.5	21213.0	10990.9	3754.8	1509.5	603.8	580.2	471.7	415.1	405.7	405.7
50°	23453.7	21637.6	11236.3	3589.7	1358.6	490.6	570.8	443.4	367.9	353.8	358.5
52.5°	23510.3	22137.6	11755.2	3358.6	1169.8	391.5	462.3	419.8	334.9	311.3	316.0
55°	22604.6	21609.2	11825.9	3113.3	915.1	301.9	353.8	367.9	283.0	273.6	273.6
57.5°	19458.2	18297.8	10434.4	2523.7	603.8	250.0	254.7	320.8	245.3	235.8	240.6
60°	16651.5	14689.2	8396.5	1665.2	377.4	198.1	184.0	325.5	217.0	212.3	226.4
62.5°	15179.8	12071.2	6368.1	1033.1	259.4	151.0	127.3	264.2	188.7	188.7	207.6
65°	10967.4	8108.8	3702.9	542.4	184.0	117.9	94.4	151.0	155.7	160.4	169.8
67.5°	6792.7	4094.5	1561.4	264.2	122.6	80.2	61.3	94.4	103.8	103.8	113.2
70°	3353.9	1632.1	518.9	151.0	94.4	66.0	42.5	51.9	51.9	47.2	51.9
72.5°	1037.8	490.6	132.1	94.4	66.0	42.5	23.5	18.8	9.4	0.0	4.7
75°	117.9	94.4	84.9	66.0	42.5	18.8	4.7	0.0	0.0	0.0	0.0
77.5°	70.7	80.2	80.2	66.0	42.5	14.1	0.0	0.0	0.0	0.0	0.0
80°	56.6	61.3	66.0	61.3	37.8	18.8	0.0	0.0	0.0	0.0	0.0
82.5°	70.7	80.2	89.7	80.2	51.9	23.5	9.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	14.1	4.7	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°	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9
2.5°	10340.0	10236.2	10382.5	10165.5	10160.7	10165.5	10104.1	10047.5	10137.2	10377.8	10401.3
5°	7891.8	8113.5	8184.3	8415.4	8288.1	8099.3	8137.1	8009.7	8321.0	8457.9	8349.4
7.5°	5745.5	5731.3	6207.8	6236.1	6297.4	6302.1	6292.7	6042.7	5787.9	5844.5	6014.4
10°	4457.7	4217.1	4448.3	4424.7	4575.6	4533.2	4594.5	4325.6	4415.2	4415.2	4523.7
12.5°	3632.2	3377.5	3335.0	3273.7	3335.0	3358.6	3382.2	3330.3	3481.2	3552.0	3627.5
15°	2773.7	2632.2	2594.4	2476.5	2495.4	2561.4	2618.0	2641.6	2594.4	2702.9	2712.4
17.5°	2014.2	2009.5	2033.1	2028.4	2009.5	1995.4	1990.6	1929.3	1910.4	1919.9	1957.6
20°	1528.3	1566.1	1646.3	1726.5	1769.0	1717.1	1646.3	1542.5	1500.1	1509.5	1514.2
22.5°	1306.7	1363.3	1471.8	1561.4	1603.9	1509.5	1382.1	1292.5	1273.6	1268.9	1264.2
25°	1184.0	1250.1	1330.2	1358.6	1353.8	1297.2	1202.9	1165.1	1155.7	1146.3	1103.8
27.5°	1117.9	1141.6	1155.7	1188.8	1202.9	1165.1	1141.6	1085.0	1075.5	1075.5	1047.2
30°	1080.3	1066.1	1085.0	1061.3	1080.3	1051.9	1056.6	1056.6	1033.1	1042.5	1042.5
32.5°	1004.7	1009.5	1009.5	962.3	976.5	943.4	976.5	1004.7	1009.5	1014.2	1051.9
35°	735.9	820.8	863.2	863.2	877.4	853.8	849.1	816.1	773.6	731.2	712.3
37.5°	646.2	679.3	735.9	768.9	792.5	773.6	731.2	679.3	655.6	636.8	618.0
40°	575.5	603.8	641.5	679.3	726.5	702.8	636.8	613.3	584.9	584.9	566.1
42.5°	518.9	533.0	556.7	613.3	665.1	618.0	570.8	551.9	537.7	533.0	528.3
45°	467.0	471.7	495.3	542.4	603.8	556.7	509.5	485.8	490.6	495.3	490.6
47.5°	419.8	429.2	443.4	500.1	537.7	514.2	462.3	448.2	448.2	448.2	452.9
50°	363.2	386.8	415.1	462.3	490.6	476.4	434.0	415.1	405.7	405.7	410.4
52.5°	325.5	344.4	382.1	438.7	476.4	452.9	410.4	382.1	363.2	358.5	367.9
55°	283.0	316.0	377.4	419.8	471.7	448.2	401.0	367.9	334.9	330.2	330.2
57.5°	254.7	306.6	363.2	415.1	457.6	438.7	401.0	358.5	316.0	311.3	311.3
60°	240.6	297.2	353.8	401.0	457.6	429.2	396.3	349.1	301.9	301.9	297.2
62.5°	226.4	278.3	334.9	382.1	438.7	415.1	382.1	334.9	287.7	287.7	278.3
65°	188.7	240.6	278.3	320.8	382.1	358.5	325.5	292.5	254.7	245.3	250.0
67.5°	132.1	165.1	202.8	245.3	283.0	273.6	259.4	235.8	202.8	198.1	193.4
70°	66.0	89.7	122.6	165.1	198.1	188.7	179.2	160.4	141.5	136.8	136.8
72.5°	9.4	28.3	51.9	75.4	103.8	108.5	103.8	99.1	94.4	89.7	94.4
75°	0.0	0.0	0.0	18.8	42.5	51.9	61.3	70.7	70.7	61.3	75.4
77.5°	0.0	0.0	0.0	0.0	4.7	23.5	47.2	61.3	75.4	66.0	89.7
80°	0.0	0.0	0.0	0.0	4.7	28.3	47.2	66.0	75.4	66.0	94.4
82.5°	0.0	0.0	0.0	0.0	4.7	33.1	47.2	61.3	70.7	66.0	84.9
85°	0.0	0.0	0.0	0.0	14.1	28.3	18.8	9.4	4.7	4.7	14.1
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: P652614

CATALOG NUMBER: GALN-SA9B-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9	12160.9
2.5°	10533.4	10868.3	11226.8	11363.6	11788.1	12109.0	12325.9	12793.0	12863.7	12868.4
5°	8462.6	8632.4	9245.6	9533.3	10165.5	10656.1	11179.7	11934.4	12439.1	12476.9
7.5°	6014.4	6486.0	6745.5	7495.6	8273.9	9042.8	9821.1	10698.5	11283.4	11297.6
10°	4839.8	5146.4	5608.7	6170.0	6825.7	7608.8	8646.6	9665.4	10259.8	10406.0
12.5°	3896.4	4434.1	4962.4	5542.7	6042.7	6632.3	7750.3	9108.8	9599.4	9891.8
15°	3000.1	3490.7	4113.3	4792.6	5358.7	6146.4	7420.1	8972.0	9797.6	9896.6
17.5°	2212.3	2651.0	3226.5	3868.1	4717.2	5835.1	7476.7	9665.4	10443.8	10608.9
20°	1589.7	1844.4	2297.3	3042.6	4122.8	5471.9	7533.3	10368.3	11552.3	11835.3
22.5°	1259.5	1363.3	1660.5	2320.8	3457.7	5089.8	7934.2	11712.7	13076.0	13486.4
25°	1094.4	1151.0	1292.5	1830.3	3037.9	5052.1	8575.8	13326.0	15104.4	15401.5
27.5°	1056.6	1066.1	1188.8	1679.3	2811.5	4802.0	8821.1	14472.3	16368.6	16670.4
30°	1113.2	1264.2	1273.6	1419.9	2391.6	4306.8	8948.4	15580.8	17439.3	17661.0
32.5°	962.3	915.1	948.1	1099.1	2103.8	4019.1	9189.0	16547.8	18661.0	18816.7
35°	669.9	702.8	778.3	952.9	1839.7	3717.1	9250.3	17613.8	19821.4	19981.8
37.5°	618.0	636.8	698.1	811.3	1618.0	3547.3	9165.4	18392.2	21024.3	21246.0
40°	575.5	599.0	632.1	735.9	1452.9	3358.6	9047.5	19095.1	21760.2	22307.4
42.5°	542.4	561.4	589.6	702.8	1311.4	3169.9	8882.4	20085.6	22420.6	22897.1
45°	504.8	533.0	566.1	684.0	1231.1	3042.6	8759.8	20024.3	22802.7	23057.4
47.5°	467.0	514.2	551.9	636.8	1207.6	2981.3	8811.7	19793.2	22491.4	22316.9
50°	429.2	490.6	556.7	528.3	1151.0	2858.6	8873.0	20109.2	21750.8	21717.7
52.5°	396.3	467.0	518.9	434.0	1023.6	2740.7	9467.3	20524.4	22274.4	21835.7
55°	349.1	419.8	415.1	349.1	830.2	2651.0	9934.3	20533.8	21920.6	22085.7
57.5°	316.0	372.6	325.5	292.5	613.3	2217.0	9174.9	17217.6	18764.8	19057.3
60°	292.5	363.2	245.3	231.1	401.0	1599.1	8009.7	13335.4	14915.6	15467.5
62.5°	268.9	344.4	193.4	188.7	278.3	1136.9	6585.1	11160.7	12854.3	13604.3
65°	235.8	245.3	155.7	146.2	198.1	613.3	4009.6	7684.2	9608.8	9887.1
67.5°	193.4	188.7	127.3	117.9	132.1	297.2	1769.0	3849.2	5571.0	6038.0
70°	155.7	155.7	108.5	94.4	94.4	136.8	462.3	1533.1	2519.0	2787.8
72.5°	113.2	117.9	84.9	75.4	70.7	66.0	75.4	306.6	660.4	844.4
75°	99.1	103.8	84.9	66.0	51.9	42.5	33.1	28.3	37.8	61.3
77.5°	108.5	108.5	89.7	61.3	47.2	33.1	18.8	9.4	9.4	4.7
80°	136.8	141.5	117.9	80.2	56.6	37.8	23.5	9.4	4.7	4.7
82.5°	146.2	160.4	132.1	99.1	70.7	42.5	23.5	4.7	0.0	0.0
85°	37.8	61.3	103.8	89.7	70.7	42.5	23.5	4.7	0.0	0.0
87.5°	0.0	4.7	14.1	14.1	18.8	18.8	14.1	4.7	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)