

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: P652123

Luminaire Tested: **GALN-SA9A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19274.9 lumens
Efficiency: N/A
Efficacy: 70.3 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): 274
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

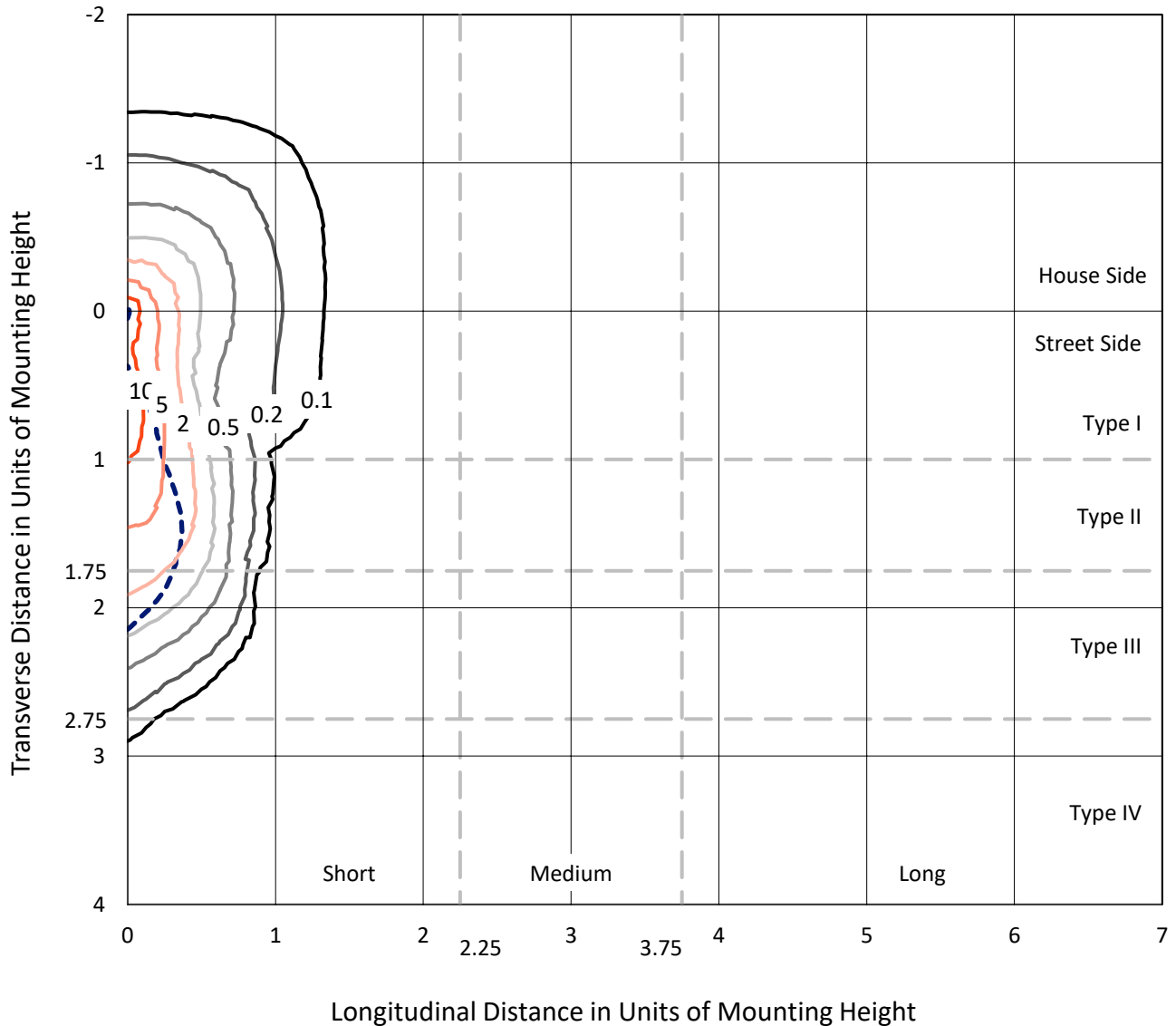




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Iso-Footcandle Lines of Horizontal Illumination

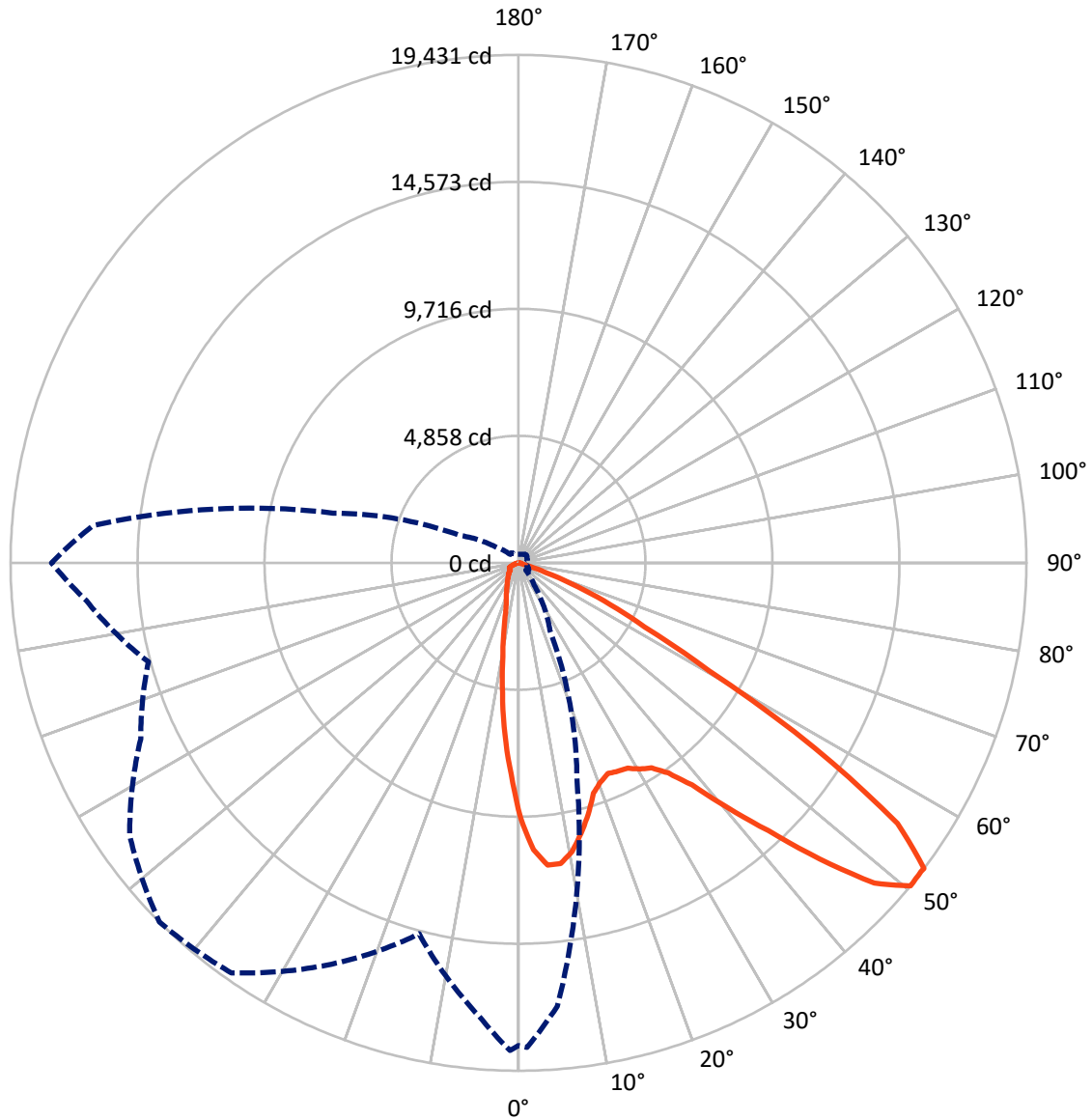
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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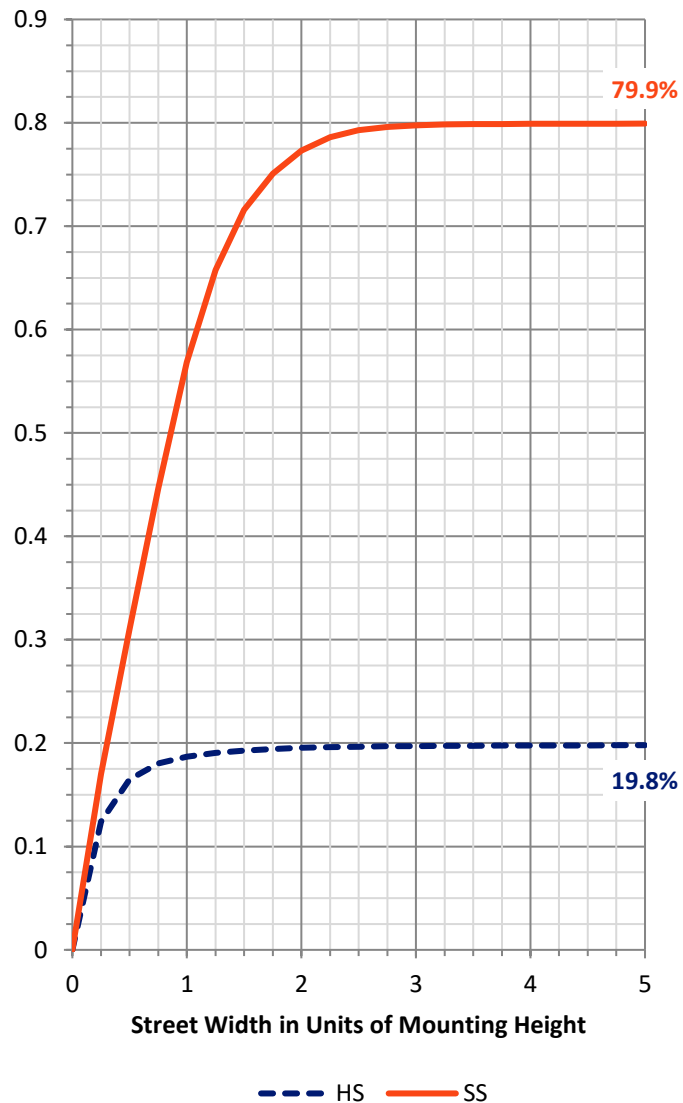
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3860.8	0.0	3860.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	15414.1	0.0	15414.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	19274.9	0.0	19274.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.5	3.7
10°-20°	1416.0	7.3
20°-30°	2127.3	11.0
30°-40°	3193.0	16.6
40°-50°	4487.5	23.3
50°-60°	4840.6	25.1
60°-70°	2247.5	11.7
70°-80°	211.5	1.1
80°-90°	39.0	0.2
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°	19274.9	100.0
0°-180°	19274.9	100.0

Coefficient of Utilization



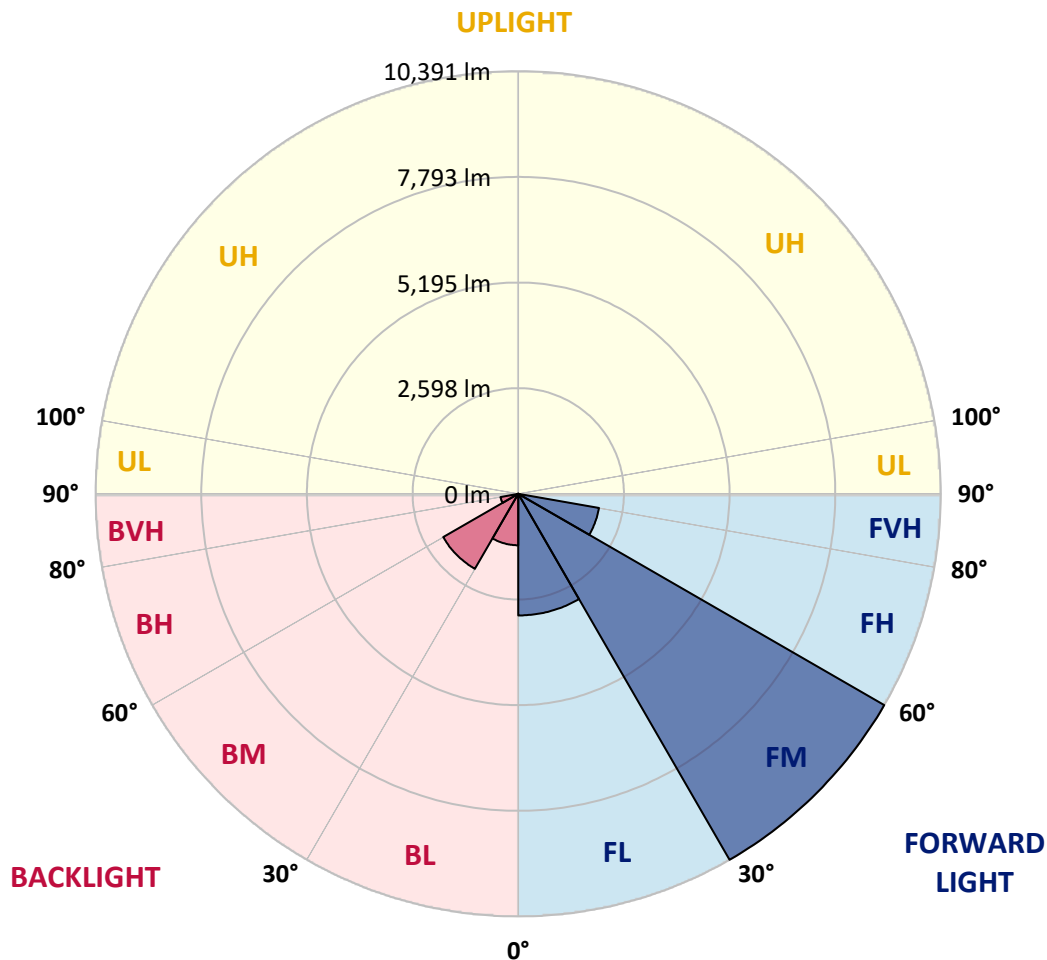
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2990.3	15.5			
FM (30°-60°)	10390.6	53.9			
FH (60°-80°)	2015.6	10.5			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1265.5	6.6	B3/2500		
BM (30°-60°)	2130.6	11.1	B2/2500		
BH (60°-80°)	443.3	2.3	B1/500		G1/500
BVH (80°-90°)	21.4	0.1			G1/100
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°	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8
2.5°	10161.0	10004.3	9805.4	9641.0	9396.2	8902.8	8769.0	8608.4	8474.6	8294.8	8042.4
5°	9239.4	9189.7	9097.9	8478.4	8031.0	7434.4	6944.8	6738.3	6466.8	6245.0	6084.4
7.5°	8535.7	8336.8	8046.3	7422.9	6707.7	6069.1	5526.0	5208.6	4849.1	4726.8	4508.8
10°	7782.4	7828.3	7400.0	6524.1	5659.9	5143.6	4807.1	4501.1	4176.1	3962.0	3652.1
12.5°	7541.4	7392.3	7063.4	5981.1	5243.0	4761.2	4352.0	3973.4	3629.3	3285.0	2986.7
15°	7698.3	7468.8	7009.8	5866.4	4921.8	4321.4	3809.0	3296.5	2979.1	2539.3	2229.6
17.5°	8260.4	8076.8	7461.1	5988.8	4757.4	3900.7	3139.7	2612.0	2126.3	1728.6	1571.7
20°	9197.3	8937.3	8164.8	6145.6	4512.6	3392.1	2547.0	1896.8	1437.9	1269.7	1181.7
22.5°	10115.1	9973.7	8998.4	6447.7	4294.7	2940.9	1912.1	1277.3	1074.6	1044.0	986.7
25°	11862.8	11438.4	10272.0	6994.6	4126.4	2516.4	1441.7	1028.7	910.2	887.3	894.9
27.5°	12903.0	12547.4	11449.8	7357.8	3939.0	2191.3	1220.0	944.6	864.3	814.6	795.4
30°	13901.1	13488.1	12035.0	7572.0	3537.4	1847.1	1082.3	906.3	887.3	814.6	791.6
32.5°	14669.8	14264.5	12880.1	7893.3	3373.0	1625.3	891.0	707.4	657.7	650.1	719.0
35°	15847.7	15415.5	13602.8	8069.1	3246.8	1510.6	772.5	631.0	573.6	550.7	554.6
37.5°	16945.3	16650.8	14272.1	8138.0	3113.0	1476.1	692.2	566.0	516.3	501.0	497.1
40°	17863.1	17205.3	14907.0	8210.7	3055.6	1411.1	642.4	516.3	481.9	458.9	458.9
42.5°	18283.8	17614.5	15618.3	8168.6	3040.3	1307.9	642.4	474.2	447.4	424.5	420.7
45°	18192.0	17920.4	15935.7	8149.5	3040.3	1204.6	585.1	462.7	424.5	393.9	386.3
47.5°	18429.1	18073.4	16333.4	8229.8	2979.1	1132.0	493.3	485.7	401.6	363.3	355.7
50°	18471.1	18540.0	17025.5	8646.7	2845.3	1040.2	386.3	478.0	386.3	328.9	321.3
52°	18746.5	18318.2	17235.9	8868.4	2703.7	971.4	325.0	409.2	371.0	306.0	298.3
52.5°	18367.9	18647.1	17285.7	8948.7	2719.0	925.4	313.6	401.6	363.3	306.0	286.8
55°	17943.4	18211.1	17083.0	9120.8	2493.4	726.6	244.7	290.6	328.9	267.7	256.3
57.5°	15595.3	15866.8	14845.8	8352.1	2030.7	512.4	202.7	218.0	290.6	248.6	237.1
60°	13863.0	13667.8	12459.4	6967.8	1441.7	286.8	160.6	168.3	317.4	229.4	225.6
62.5°	12669.7	12252.9	10413.4	5380.7	879.6	191.2	126.2	130.0	244.7	214.1	214.1
65°	9373.3	8906.7	6918.1	3254.4	432.1	133.9	95.6	103.3	153.0	183.6	183.6
67.5°	5350.1	5170.4	3342.4	1468.6	179.7	84.1	72.7	80.3	118.6	149.1	141.5
70°	2459.0	2206.6	1285.0	309.7	84.1	57.4	57.4	65.0	95.6	110.9	103.3
72.5°	719.0	680.7	313.6	49.7	34.4	34.4	38.3	49.7	72.7	84.1	76.4
75°	53.6	34.4	23.0	15.3	15.3	23.0	30.6	49.7	72.7	80.3	65.0
77.5°	3.8	7.7	3.8	3.8	11.4	23.0	34.4	61.2	95.6	99.4	72.7
80°	3.8	3.8	0.0	3.8	11.4	23.0	38.3	68.9	107.1	114.7	61.2
82.5°	0.0	0.0	0.0	3.8	15.3	30.6	45.9	72.7	99.4	122.4	65.0
85°	0.0	0.0	0.0	3.8	23.0	42.0	53.6	19.1	11.4	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°	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8
2.5°	8222.1	8122.7	8084.4	8118.9	8107.4	8096.0	8306.3	8260.4	8252.7	8321.6	8306.3
5°	6172.4	5996.4	6478.3	6283.3	6486.0	6608.3	6631.3	6642.7	6784.3	6635.1	6830.1
7.5°	4397.9	4443.8	4440.0	4570.0	4803.3	5009.8	5132.1	5036.6	5028.9	5009.8	4925.7
10°	3514.5	3434.1	3418.9	3388.3	3461.0	3636.9	3786.0	3667.4	3583.3	3698.0	3663.6
12.5°	2872.0	2761.1	2699.9	2577.6	2581.4	2699.9	2699.9	2699.9	2784.0	2849.1	2898.8
15°	2202.7	2111.0	2111.0	1988.6	1961.8	1965.7	2026.9	2034.5	2168.4	2206.6	2225.7
17.5°	1541.1	1491.4	1548.8	1598.6	1568.0	1575.6	1598.6	1606.2	1625.3	1610.0	1648.3
20°	1185.6	1177.9	1193.1	1281.1	1346.1	1384.4	1357.6	1319.4	1296.4	1242.9	1242.9
22.5°	1005.8	1021.1	1047.9	1120.5	1204.6	1227.6	1197.0	1109.0	1040.2	1032.6	1036.4
25°	894.9	910.2	952.3	998.1	1044.0	1082.3	1051.7	986.7	948.4	914.0	914.0
27.5°	826.0	833.7	856.6	891.0	929.3	959.9	948.4	914.0	871.9	856.6	822.2
30°	772.5	784.0	810.7	818.4	852.8	868.1	849.0	841.3	814.6	795.4	784.0
32.5°	745.7	741.9	761.0	768.7	772.5	784.0	761.0	772.5	768.7	738.1	726.6
35°	562.1	592.7	642.4	684.6	696.0	711.3	707.4	692.2	650.1	615.7	573.6
37.5°	504.8	523.9	550.7	585.1	631.0	650.1	642.4	604.3	554.6	531.6	523.9
40°	466.6	478.0	501.0	523.9	569.8	604.3	577.4	543.0	504.8	485.7	474.2
42.5°	432.1	436.0	447.4	470.4	504.8	558.3	512.4	466.6	451.3	439.8	432.1
45°	393.9	393.9	409.2	420.7	458.9	508.6	462.7	420.7	413.0	405.4	401.6
47.5°	363.3	367.1	374.7	390.1	420.7	455.1	424.5	390.1	371.0	367.1	359.4
50°	325.0	328.9	344.2	359.4	397.7	416.9	397.7	359.4	340.4	328.9	328.9
52°	294.4	306.0	321.3	351.8	378.6	409.2	386.3	344.2	321.3	309.7	302.1
52.5°	290.6	298.3	313.6	348.0	378.6	405.4	382.4	340.4	313.6	306.0	298.3
55°	260.0	271.6	298.3	340.4	374.7	405.4	374.7	336.6	298.3	279.2	271.6
57.5°	248.6	256.3	290.6	344.2	371.0	405.4	374.7	336.6	298.3	263.9	256.3
60°	237.1	252.4	290.6	332.7	367.1	409.2	378.6	332.7	290.6	248.6	248.6
62.5°	225.6	237.1	286.8	325.0	351.8	393.9	363.3	325.0	279.2	237.1	233.3
65°	195.0	214.1	252.4	271.6	302.1	340.4	309.7	283.0	244.7	210.3	206.5
67.5°	149.1	156.8	187.4	210.3	229.4	263.9	248.6	214.1	187.4	160.6	160.6
70°	103.3	110.9	133.9	145.3	164.4	183.6	172.1	145.3	126.2	110.9	107.1
72.5°	72.7	76.4	84.1	91.8	99.4	107.1	103.3	84.1	72.7	68.9	65.0
75°	57.4	65.0	68.9	65.0	61.2	57.4	57.4	49.7	42.0	38.3	38.3
77.5°	57.4	61.2	57.4	49.7	42.0	38.3	34.4	30.6	23.0	19.1	23.0
80°	49.7	49.7	49.7	42.0	38.3	34.4	30.6	26.7	23.0	19.1	19.1
82.5°	53.6	53.6	49.7	42.0	42.0	34.4	34.4	30.6	26.7	19.1	19.1
85°	0.0	0.0	0.0	7.7	19.1	34.4	34.4	30.6	26.7	23.0	23.0
87.5°	0.0	0.0	0.0	0.0	3.8	7.7	15.3	19.1	23.0	23.0	23.0
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°	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8
2.5°	8444.0	8589.3	8864.6	9140.0	9308.3	9507.1	9866.6	10057.8	10306.4	10428.7	10669.7
5°	6803.4	7147.5	7269.9	7583.5	7920.0	8256.6	8792.0	9380.9	9870.4	10207.0	10642.9
7.5°	4963.9	5044.1	5518.4	5728.7	6279.4	6891.3	7621.7	8363.7	8983.1	9533.8	9866.6
10°	3721.0	4015.4	4313.7	4715.3	5158.9	5789.9	6489.7	7308.1	8111.3	8662.0	9082.6
12.5°	2990.6	3223.8	3621.6	4053.7	4600.6	5017.4	5721.1	6531.8	7572.0	8111.3	8665.7
15°	2264.0	2562.3	3013.5	3461.0	4038.4	4478.2	5189.5	6210.6	7549.1	8291.0	8769.0
17.5°	1678.9	1881.6	2286.9	2787.9	3376.8	3996.3	4956.3	6176.1	7805.3	8688.7	9182.0
20°	1285.0	1353.8	1610.0	2057.4	2696.1	3506.8	4577.6	6325.3	8562.5	9656.3	10157.2
22.5°	1040.2	1070.8	1170.3	1480.0	2099.6	3078.6	4397.9	6428.6	9415.3	10815.0	11484.3
25°	906.3	898.7	963.7	1097.6	1640.6	2677.0	4168.4	6818.7	10459.3	12176.4	12776.8
27.5°	826.0	826.0	856.6	952.3	1361.4	2416.9	4023.1	7097.8	11511.0	13373.4	13698.5
30°	784.0	791.6	879.6	910.2	1132.0	2107.1	3782.1	7380.8	12516.8	14138.3	14585.7
32.5°	726.6	696.0	676.9	753.4	952.3	1828.0	3541.3	7499.4	13331.4	15075.2	15457.7
35°	558.3	543.0	566.0	623.3	818.4	1590.9	3273.6	7633.3	14268.3	16161.3	16237.8
37.5°	504.8	501.0	516.3	566.0	688.4	1384.4	3082.3	7598.8	14983.4	17060.0	16853.5
40°	466.6	466.6	478.0	520.1	615.7	1239.0	2883.5	7568.2	15675.7	18069.6	17465.4
42.5°	436.0	436.0	455.1	481.9	585.1	1143.4	2734.3	7526.1	16256.9	18689.1	17824.8
45°	393.9	405.4	436.0	462.7	592.7	1078.4	2623.4	7365.5	16455.8	18681.5	17652.8
47.5°	363.3	378.6	409.2	447.4	535.4	1059.3	2547.0	7224.0	16387.0	18222.5	17113.5
50°	328.9	348.0	390.1	455.1	455.1	1021.1	2466.7	7350.3	16337.2	17866.9	16597.3
52°	306.0	321.3	374.7	443.6	397.7	940.7	2416.9	7595.0	16539.9	17821.0	16367.8
52.5°	302.1	313.6	363.3	436.0	378.6	925.4	2382.5	7652.3	16604.9	17706.3	16524.6
55°	267.7	283.0	332.7	340.4	309.7	761.0	2271.6	7782.4	16283.7	17480.7	16375.4
57.5°	252.4	260.0	294.4	279.2	267.7	573.6	1954.2	7579.7	14463.3	15526.5	15235.8
60°	233.3	240.9	275.3	218.0	225.6	401.6	1468.6	6581.6	11614.3	12937.4	13461.4
62.5°	225.6	221.8	260.0	175.9	191.2	290.6	1036.4	5350.1	8948.7	10650.5	11556.9
65°	198.9	195.0	187.4	149.1	164.4	225.6	619.6	3491.6	6306.2	8057.7	8554.8
67.5°	153.0	160.6	137.7	118.6	137.7	175.9	344.2	1564.1	3308.0	4833.8	5235.4
70°	107.1	114.7	110.9	103.3	122.4	145.3	198.9	535.4	1369.1	2539.3	2799.4
72.5°	65.0	80.3	84.1	88.0	107.1	126.2	141.5	172.1	363.3	898.7	1116.7
75°	38.3	53.6	65.0	76.4	88.0	107.1	118.6	122.4	126.2	168.3	271.6
77.5°	26.7	38.3	57.4	72.7	88.0	107.1	126.2	133.9	126.2	118.6	126.2
80°	23.0	38.3	53.6	68.9	91.8	110.9	126.2	126.2	122.4	107.1	114.7
82.5°	23.0	38.3	57.4	72.7	88.0	107.1	122.4	126.2	114.7	107.1	110.9
85°	26.7	42.0	61.2	76.4	95.6	88.0	80.3	65.0	61.2	49.7	53.6
87.5°	26.7	38.3	38.3	42.0	45.9	45.9	45.9	42.0	34.4	30.6	30.6
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: P652123

CATALOG NUMBER: GALN-SA9A-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8	9774.8
2.5°	10681.1	10987.1	10975.6	10983.3	10937.4	10627.6	10478.4	10099.8	10207.0	10161.0
5°	11090.4	11392.4	11652.5	11621.9	11270.1	10849.4	10226.1	9637.1	9476.5	9239.4
7.5°	10681.1	11407.7	11648.7	11614.3	11094.1	10555.0	9560.7	8971.7	8692.5	8535.7
10°	10031.0	10872.4	11170.7	11231.8	10880.0	10061.6	9147.6	8203.0	8053.9	7782.4
12.5°	9660.1	10272.0	10455.5	10620.0	10497.6	9885.7	8834.0	7927.7	7721.1	7541.4
15°	9358.0	9721.3	9797.7	9985.1	10057.8	9728.9	8998.4	8226.0	7717.4	7698.3
17.5°	9637.1	9488.0	9208.8	9266.1	9495.6	9732.7	9423.0	8814.9	8321.6	8260.4
20°	10099.8	9442.1	8811.1	8952.6	9143.8	9870.4	10065.4	9637.1	9354.1	9197.3
22.5°	10631.4	9522.4	8684.9	8753.7	9117.0	10180.1	11105.7	10868.5	10340.8	10115.1
25°	11614.3	9744.2	8784.3	8830.2	9327.4	10612.3	12046.4	12222.3	11908.7	11862.8
27.5°	12574.1	10317.8	9002.3	8899.0	9434.4	11033.0	12616.2	13560.8	13010.1	12903.0
30°	13063.7	10784.4	9327.4	9151.4	9878.0	11289.2	12960.4	14432.7	13950.8	13901.1
32.5°	13813.2	11208.8	9579.7	9354.1	10126.6	11606.6	13602.8	15385.0	14918.4	14669.8
35°	14126.8	11671.7	10134.3	9870.4	10838.0	12050.2	13931.8	16234.0	16088.7	15847.7
37.5°	14731.0	12168.8	10788.2	10773.0	11698.4	12627.7	14524.5	17388.9	17362.1	16945.3
40°	14780.7	12711.8	11820.8	12302.7	13029.2	13633.5	15044.6	17710.1	18146.1	17863.1
42.5°	14857.2	13664.1	13606.7	14004.4	14627.8	14497.7	15063.7	17786.6	18452.0	18283.8
45°	14891.7	14616.3	15423.2	16157.5	16417.5	15629.7	14884.0	17641.3	18612.7	18192.0
47.5°	14616.3	15434.7	16891.7	18310.5	18387.0	16325.7	14807.5	17492.1	18708.2	18429.1
50°	14654.5	15947.1	18161.4	19431.1	19151.8	16941.4	14689.0	17400.4	18658.5	18471.1
52°	14562.8	15958.6	18341.1	19408.1	19213.1	16601.1	14486.3	17048.5	18612.7	18746.5
52.5°	14666.0	15889.8	18153.7	19423.4	19171.0	16769.4	14459.5	17243.5	18639.4	18367.9
55°	14310.4	15071.4	17056.2	17595.4	17557.1	15220.5	13637.3	16597.3	17939.5	17943.4
57.5°	12933.7	13063.7	13377.3	13365.8	13189.8	11966.1	11664.0	15262.6	15993.0	15595.3
60°	11396.3	9564.4	8719.3	8375.1	8180.1	7981.3	10317.8	13962.4	14031.2	13863.0
62.5°	9847.4	6631.3	5507.0	5411.3	5457.2	6183.8	9973.7	13446.1	13033.1	12669.7
65°	7946.8	4833.8	4000.1	3874.0	4321.4	5105.4	8073.0	10310.2	9675.4	9373.3
67.5°	4990.7	3526.0	2703.7	2466.7	3005.9	3514.5	5304.3	6478.3	5767.0	5350.1
70°	2960.0	1969.5	1223.7	1097.6	1235.3	1873.9	2971.4	3231.5	2673.1	2459.0
72.5°	1166.4	722.8	340.4	290.6	302.1	657.7	1093.7	1067.0	806.9	719.0
75°	313.6	218.0	118.6	95.6	80.3	122.4	175.9	114.7	42.0	53.6
77.5°	145.3	130.0	103.3	80.3	61.2	45.9	23.0	7.7	7.7	3.8
80°	126.2	110.9	95.6	80.3	61.2	38.3	19.1	3.8	3.8	3.8
82.5°	118.6	103.3	88.0	72.7	57.4	38.3	19.1	3.8	0.0	0.0
85°	49.7	65.0	72.7	68.9	61.2	38.3	19.1	3.8	0.0	0.0
87.5°	26.7	23.0	19.1	15.3	11.4	7.7	7.7	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

(END OF REPORT)