

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: P651624

Luminaire Tested: **GALN-SA9D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651624
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-SA9D-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA 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: 32605.6 lumens
Efficiency: N/A
Efficacy: 59.1 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

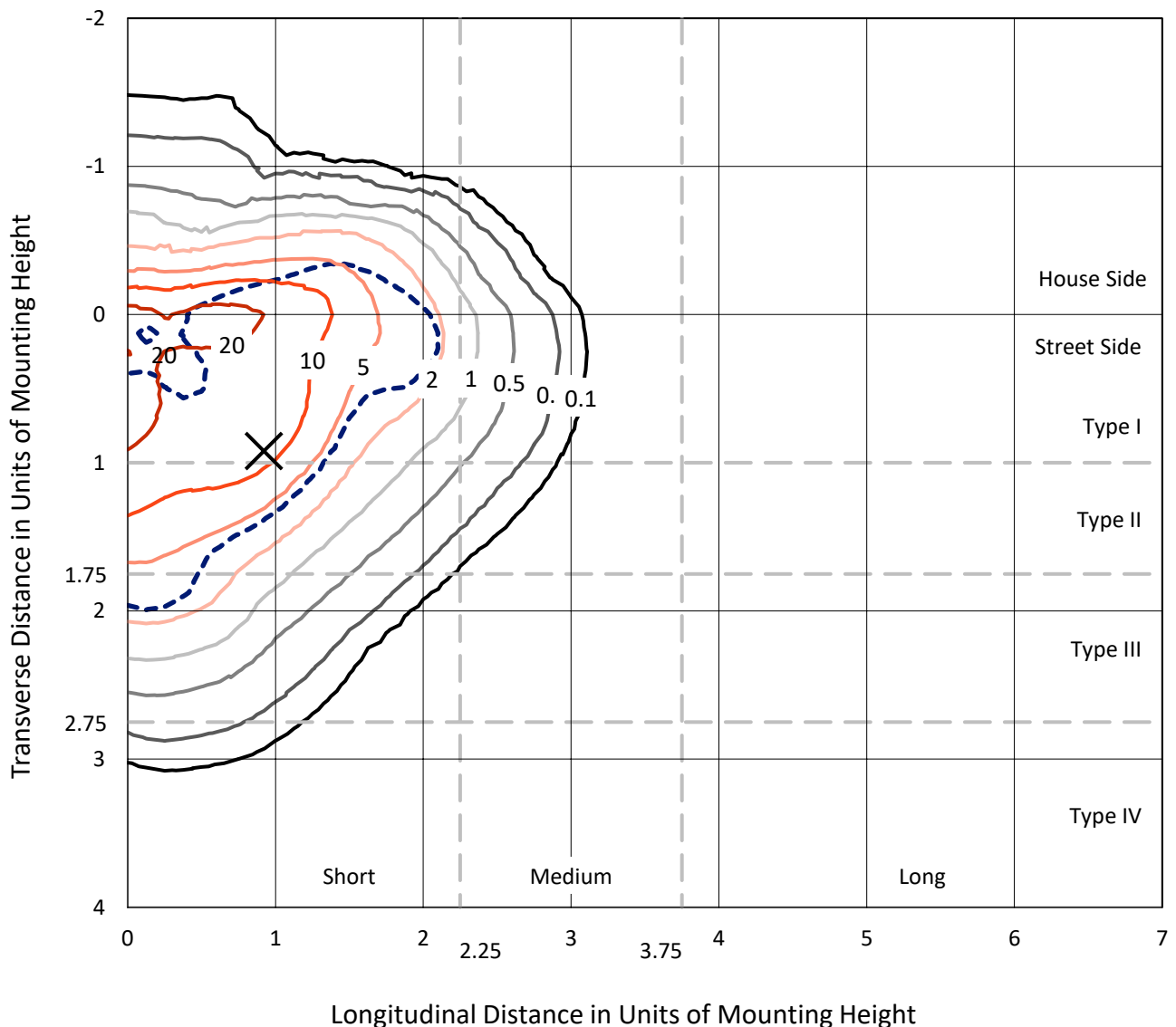
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

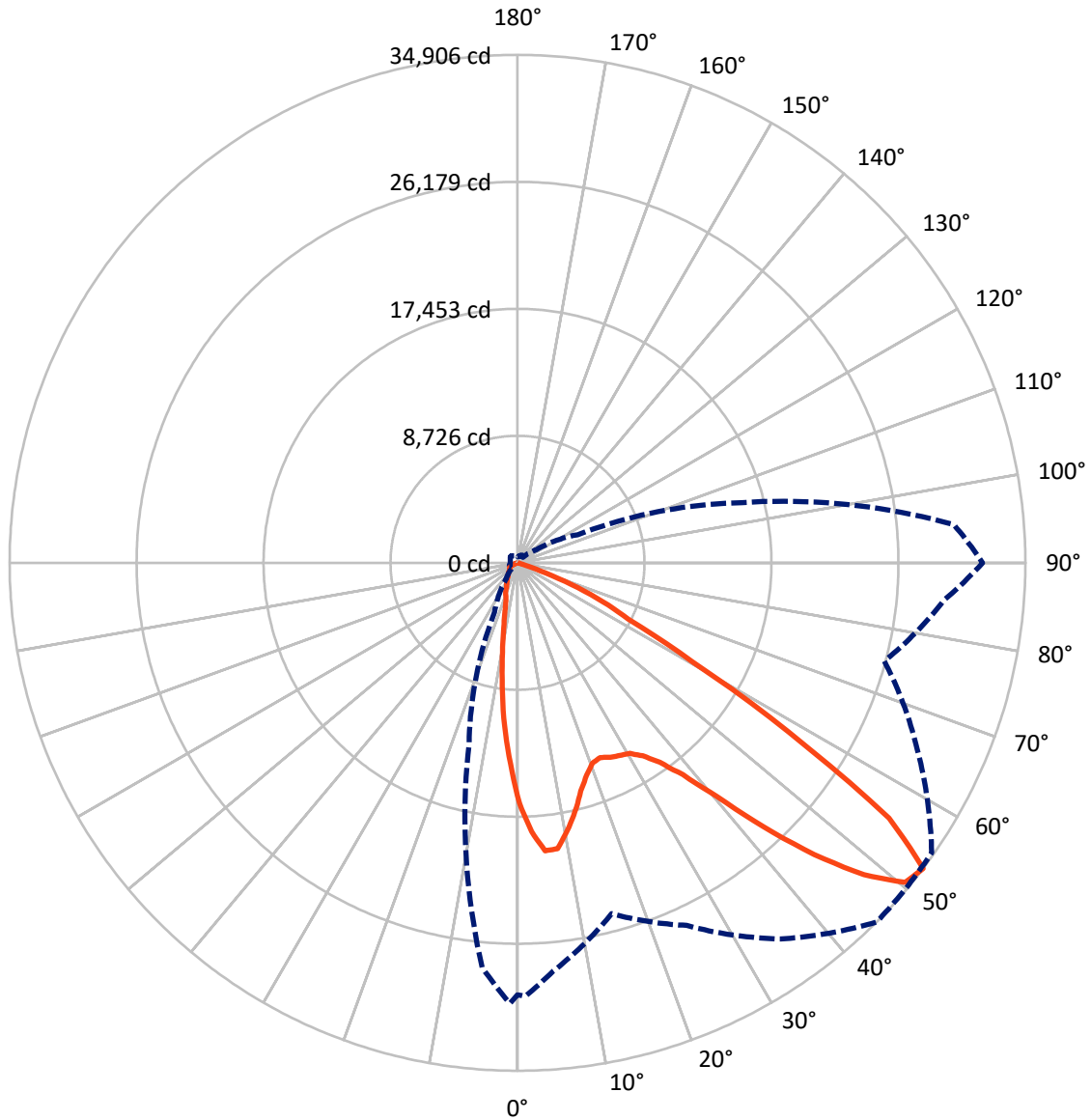
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 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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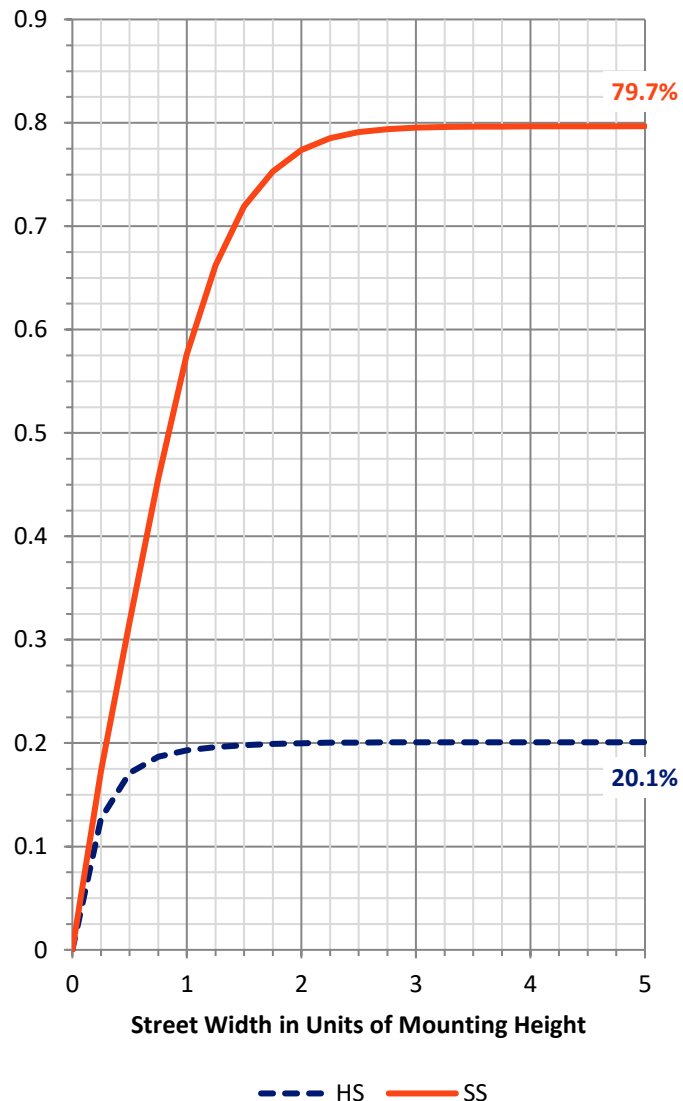
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6617.3	0.0	6617.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	25988.3	0.0	25988.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	32605.6	0.0	32605.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1205.7	3.7
10°-20°	2378.8	7.3
20°-30°	3620.1	11.1
30°-40°	5410.7	16.6
40°-50°	7705.3	23.6
50°-60°	8283.0	25.4
60°-70°	3670.4	11.3
70°-80°	297.0	0.9
80°-90°	34.6	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°	32605.6	100.0
0°-180°	32605.6	100.0

Coefficient of Utilization

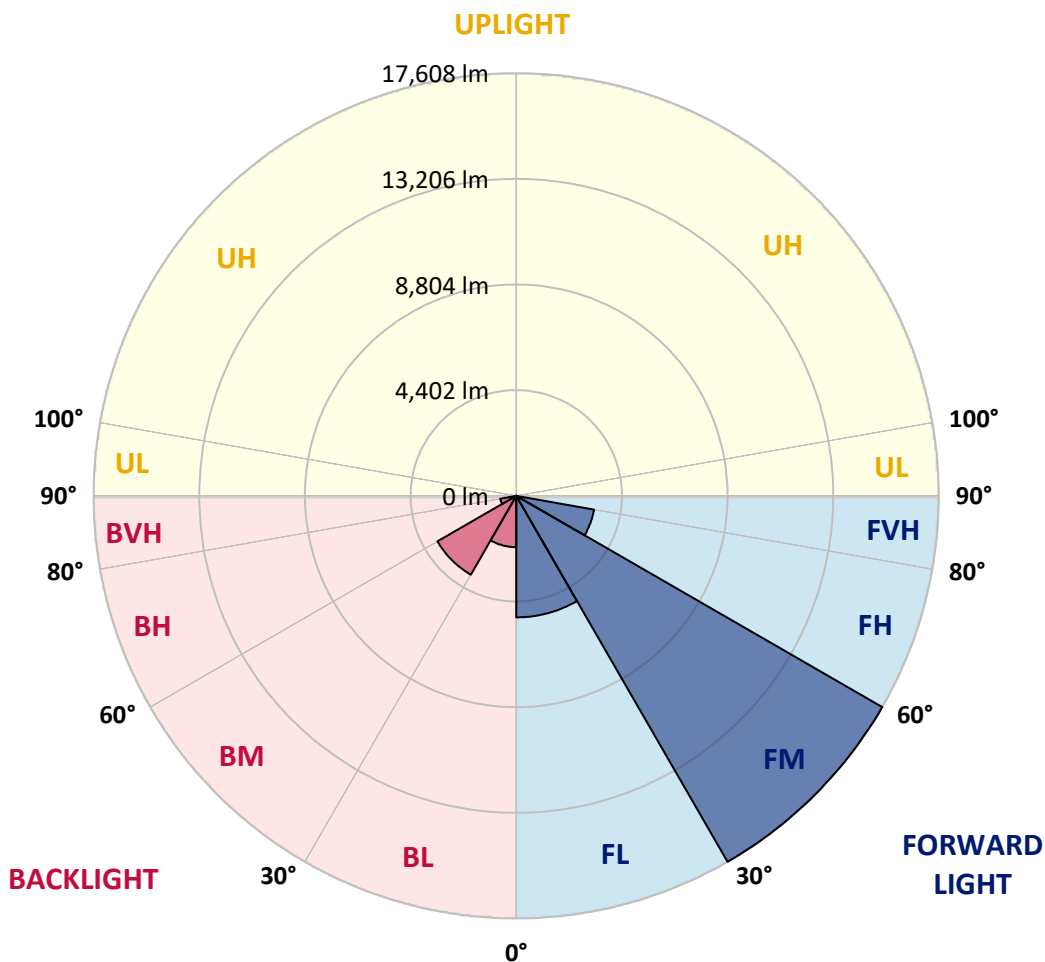


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5064.3	15.5			
FM (30°-60°)	17608.0	54.0			
FH (60°-80°)	3290.3	10.1			G2/5000
FVH (80°-90°)	25.6	0.1			G1/100
BL (0°-30°)	2140.3	6.6	B3/2500		
BM (30°-60°)	3791.0	11.6	B3/5000		
BH (60°-80°)	677.1	2.1	B2/1000		G2/1000
BVH (80°-90°)	9.0	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°	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5
2.5°	17494.5	17545.8	17827.9	18180.7	18366.6	18789.9	18494.9	18571.9	18411.5	17847.2	17404.7
5°	16962.2	16955.8	17314.9	18187.0	19014.3	19854.4	19880.1	19431.2	18642.4	17776.6	16538.9
7.5°	15359.0	15609.0	15981.0	17372.6	18905.3	19533.8	19835.2	19309.4	18097.3	16859.6	15519.3
10°	14147.0	14275.2	14903.6	16583.8	17706.1	18546.2	18732.2	18430.8	17500.9	15955.4	14454.8
12.5°	13447.9	13512.0	14249.6	15660.3	16846.7	17468.8	17558.7	17699.7	17032.8	15583.4	13781.4
15°	13454.3	13505.6	14499.7	15679.6	16147.8	15981.0	16276.0	16269.6	16558.2	15512.9	14345.7
17.5°	14422.6	14480.4	15378.2	15961.8	15756.6	15365.4	15346.1	15641.2	16250.4	16391.4	15198.6
20°	16090.0	16224.7	16885.3	16853.2	15698.9	14910.1	14692.0	14916.5	16333.7	17135.4	16917.3
22.5°	18334.6	18520.6	18982.3	18097.3	15961.8	14602.3	14531.7	14967.8	16885.3	18796.3	18866.8
25°	20938.2	21252.5	21476.9	20341.9	16898.0	15134.6	14801.0	15551.4	17629.1	20598.4	21348.6
27.5°	22663.3	22990.3	22939.0	21316.6	17526.5	15275.6	14993.4	15692.5	18276.9	21028.0	22644.1
30°	24010.0	24208.9	24568.0	21842.5	18155.0	15673.2	15192.2	16288.8	18488.5	21771.9	24208.9
32.5°	25581.2	25715.8	25741.5	22772.3	19123.3	16173.4	15807.9	17032.8	19424.7	22483.7	25594.0
35°	27165.1	27364.0	26947.2	23920.2	19719.8	17103.2	16834.0	18321.8	20175.1	23221.2	27120.3
37.5°	28883.8	28986.5	28024.5	24394.8	20572.7	18616.7	18469.3	19713.4	21476.9	24555.1	28813.3
40°	30326.8	30422.9	29172.4	24978.4	21470.5	20733.0	21111.4	22368.3	23246.8	25420.8	29659.8
42.5°	31128.4	31352.8	29557.2	24657.7	23272.6	23131.5	24811.6	25254.1	25299.0	25664.5	30416.5
45°	31346.4	31243.8	28922.3	24920.7	24850.1	27075.4	28601.7	29185.2	27338.3	26113.5	30609.0
47.5°	30339.6	30474.2	27986.0	24689.8	26921.5	30063.8	32039.0	33122.8	28858.2	25722.2	30134.4
50°	29525.2	29352.0	27684.6	24523.1	27479.4	31474.7	34520.8	34764.5	30256.2	26203.2	29614.9
52.5°	29685.4	29794.4	28165.6	24965.5	27492.2	31558.0	34905.6	34738.9	30301.1	26094.2	29428.9
55°	30025.4	29544.4	27960.4	23990.8	25651.8	29230.1	30980.8	30724.3	27966.8	24933.5	28973.6
57.5°	25908.3	26652.1	25709.5	21419.2	21053.7	22022.0	21990.0	22778.7	20861.3	21457.7	26376.4
60°	21028.0	21156.3	21509.0	18321.8	14570.2	14236.7	13775.0	13274.8	14037.9	18347.4	23990.8
62.5°	18494.9	18340.9	19597.9	16667.2	10286.4	8612.6	8535.6	8843.5	10831.4	17500.9	22503.0
65°	13441.5	13633.9	14544.5	12934.9	7721.1	6573.3	6457.8	7368.4	8766.5	14025.1	17173.8
67.5°	8208.6	8580.5	8663.9	7977.7	5239.3	4162.0	3995.3	4822.5	6329.5	9074.3	10068.3
70°	3790.1	4239.0	4662.2	4354.4	3033.3	1712.3	1616.1	2026.5	3193.6	5220.1	5341.9
72.5°	1147.9	1154.4	1616.1	1686.6	981.2	384.8	339.8	448.9	1083.8	1725.1	1814.9
75°	83.3	89.8	218.1	250.1	185.9	96.2	102.6	121.9	230.9	384.8	288.5
77.5°	6.4	6.4	6.4	32.0	57.7	64.2	83.3	96.2	121.9	141.1	128.3
80°	6.4	0.0	6.4	25.7	44.9	64.2	77.0	89.8	96.2	109.0	96.2
82.5°	0.0	0.0	0.0	19.3	44.9	64.2	70.6	96.2	109.0	128.3	109.0
85°	0.0	0.0	0.0	19.3	44.9	70.6	64.2	32.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5
2.5°	17481.6	17231.6	16660.8	16372.3	15692.5	15596.3	14929.3	14820.3	14595.8	14473.9	14179.0
5°	15993.9	15692.5	14762.6	13980.2	13069.6	12434.7	11947.3	11504.8	11248.3	11011.0	11120.0
7.5°	14781.8	13903.2	12870.7	11562.5	10510.8	9831.0	9087.1	8477.9	8118.8	7875.0	7932.8
10°	13512.0	12941.3	11504.8	10036.2	8766.5	8285.5	7702.0	7233.8	6727.2	6291.1	6085.9
12.5°	13114.5	12267.9	10465.9	8971.7	8009.8	7541.6	6874.7	6336.0	5688.3	5156.0	4970.1
15°	13185.0	12370.5	10183.8	8586.9	7451.8	6643.8	5848.6	5181.7	4469.8	4097.9	3905.4
17.5°	14332.9	12922.0	10369.7	8182.9	6675.9	5553.6	4572.4	3725.9	3193.6	2808.9	2725.5
20°	15743.8	14114.8	10767.3	7887.9	6041.0	4418.5	3341.1	2610.0	2167.6	2103.4	2084.2
22.5°	17808.7	16064.4	11620.3	7689.1	5265.0	3443.7	2289.5	1898.2	1776.4	1763.6	1770.0
25°	20694.6	18507.7	12550.1	7522.4	4681.4	2655.0	1872.6	1609.7	1571.2	1551.9	1584.0
27.5°	21945.1	19982.7	13043.9	7163.2	4149.2	2392.1	1846.9	1596.8	1487.8	1455.8	1474.9
30°	23490.6	20963.9	13819.9	6547.6	3366.8	1968.8	1725.1	1737.9	1686.6	1526.2	1474.9
32.5°	25542.7	22188.8	14211.0	6111.5	3007.7	1628.8	1263.4	1160.7	1295.4	1321.0	1366.0
35°	26857.3	23432.9	14409.9	5855.0	2821.7	1391.6	1070.9	974.8	942.7	949.2	974.8
37.5°	29300.7	25113.0	14660.0	5585.7	2680.6	1212.0	968.3	878.6	833.7	833.7	859.3
40°	30762.9	26446.9	14999.8	5438.2	2539.5	1103.1	878.6	801.6	763.1	763.1	776.0
42.5°	31128.4	27107.4	14884.4	5386.9	2379.2	1077.4	801.6	743.9	699.0	692.6	686.2
45°	31782.5	28114.3	14903.6	5329.2	2212.5	981.2	756.7	692.6	628.5	622.1	615.6
47.5°	32500.8	28839.0	14942.1	5104.7	2052.1	820.8	788.8	641.3	564.3	551.5	551.5
50°	31885.1	29416.2	15275.6	4880.2	1846.9	666.9	776.0	602.8	500.2	481.0	487.4
52.5°	31962.0	30095.9	15981.0	4566.0	1590.4	532.3	628.5	570.8	455.3	423.3	429.7
55°	30730.8	29377.6	16077.2	4232.5	1244.1	410.4	481.0	500.2	384.8	372.0	372.0
57.5°	26453.3	24875.8	14185.4	3430.9	820.8	339.8	346.3	436.1	333.5	320.7	327.1
60°	22637.6	19969.9	11415.1	2263.8	513.0	269.4	250.1	442.5	295.0	288.5	307.8
62.5°	20636.8	16410.7	8657.4	1404.5	352.7	205.2	173.2	359.1	256.5	256.5	282.2
65°	14910.1	11023.8	5034.1	737.5	250.1	160.3	128.3	205.2	211.6	218.1	230.9
67.5°	9234.6	5566.4	2122.7	359.1	166.8	109.0	83.3	128.3	141.1	141.1	153.9
70°	4559.6	2218.9	705.4	205.2	128.3	89.8	57.7	70.6	70.6	64.2	70.6
72.5°	1410.9	666.9	179.6	128.3	89.8	57.7	32.0	25.7	12.9	0.0	6.4
75°	160.3	128.3	115.5	89.8	57.7	25.7	6.4	0.0	0.0	0.0	0.0
77.5°	96.2	109.0	109.0	89.8	57.7	19.3	0.0	0.0	0.0	0.0	0.0
80°	77.0	83.3	89.8	83.3	51.3	25.7	0.0	0.0	0.0	0.0	0.0
82.5°	96.2	109.0	121.9	109.0	70.6	32.0	12.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	19.3	6.4	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°	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5
2.5°	14057.1	13916.0	14114.8	13819.9	13813.4	13819.9	13736.5	13659.5	13781.4	14108.4	14140.5
5°	10728.8	11030.2	11126.4	11440.7	11267.5	11011.0	11062.3	10889.2	11312.4	11498.4	11350.9
7.5°	7811.0	7791.7	8439.4	8477.9	8561.3	8567.7	8554.8	8215.0	7868.6	7945.6	8176.5
10°	6060.2	5733.2	6047.4	6015.3	6220.5	6162.8	6246.2	5880.7	6002.5	6002.5	6150.0
12.5°	4937.9	4591.7	4533.9	4450.6	4533.9	4566.0	4598.1	4527.5	4732.7	4828.9	4931.5
15°	3770.8	3578.5	3527.2	3366.8	3392.4	3482.2	3559.2	3591.2	3527.2	3674.6	3687.4
17.5°	2738.3	2731.9	2763.9	2757.6	2731.9	2712.6	2706.3	2622.9	2597.3	2610.0	2661.3
20°	2077.8	2129.1	2238.2	2347.1	2404.8	2334.3	2238.2	2097.0	2039.3	2052.1	2058.5
22.5°	1776.4	1853.3	2000.8	2122.7	2180.4	2052.1	1879.0	1757.2	1731.5	1725.1	1718.7
25°	1609.7	1699.4	1808.5	1846.9	1840.5	1763.6	1635.3	1584.0	1571.2	1558.4	1500.6
27.5°	1519.9	1551.9	1571.2	1616.1	1635.3	1584.0	1551.9	1474.9	1462.2	1462.2	1423.6
30°	1468.6	1449.3	1474.9	1442.9	1468.6	1430.1	1436.5	1436.5	1404.5	1417.3	1417.3
32.5°	1366.0	1372.3	1372.3	1308.3	1327.5	1282.6	1327.5	1366.0	1372.3	1378.8	1430.1
35°	1000.5	1115.8	1173.5	1173.5	1192.8	1160.7	1154.4	1109.4	1051.8	994.0	968.3
37.5°	878.6	923.5	1000.5	1045.3	1077.4	1051.8	994.0	923.5	891.4	865.7	840.1
40°	782.4	820.8	872.1	923.5	987.6	955.5	865.7	833.7	795.2	795.2	769.5
42.5°	705.4	724.7	756.7	833.7	904.2	840.1	776.0	750.3	731.1	724.7	718.2
45°	634.9	641.3	673.4	737.5	820.8	756.7	692.6	660.5	666.9	673.4	666.9
47.5°	570.8	583.6	602.8	679.8	731.1	699.0	628.5	609.2	609.2	609.2	615.6
50°	493.8	525.9	564.3	628.5	666.9	647.7	590.0	564.3	551.5	551.5	557.9
52.5°	442.5	468.2	519.5	596.4	647.7	615.6	557.9	519.5	493.8	487.4	500.2
55°	384.8	429.7	513.0	570.8	641.3	609.2	545.1	500.2	455.3	448.9	448.9
57.5°	346.3	416.8	493.8	564.3	622.1	596.4	545.1	487.4	429.7	423.3	423.3
60°	327.1	404.0	481.0	545.1	622.1	583.6	538.7	474.6	410.4	410.4	404.0
62.5°	307.8	378.4	455.3	519.5	596.4	564.3	519.5	455.3	391.1	391.1	378.4
65°	256.5	327.1	378.4	436.1	519.5	487.4	442.5	397.6	346.3	333.5	339.8
67.5°	179.6	224.5	275.8	333.5	384.8	372.0	352.7	320.7	275.8	269.4	262.9
70°	89.8	121.9	166.8	224.5	269.4	256.5	243.7	218.1	192.4	185.9	185.9
72.5°	12.9	38.5	70.6	102.6	141.1	147.5	141.1	134.6	128.3	121.9	128.3
75°	0.0	0.0	0.0	25.7	57.7	70.6	83.3	96.2	96.2	83.3	102.6
77.5°	0.0	0.0	0.0	0.0	6.4	32.0	64.2	83.3	102.6	89.8	121.9
80°	0.0	0.0	0.0	0.0	6.4	38.5	64.2	89.8	102.6	89.8	128.3
82.5°	0.0	0.0	0.0	0.0	6.4	44.9	64.2	83.3	96.2	89.8	115.5
85°	0.0	0.0	0.0	0.0	19.3	38.5	25.7	12.9	6.4	6.4	19.3
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: P651624

CATALOG NUMBER: GALN-SA9D-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5	16532.5
2.5°	14320.0	14775.4	15262.8	15448.7	16025.9	16462.0	16757.0	17391.9	17488.1	17494.5
5°	11504.8	11735.7	12569.3	12960.6	13819.9	14486.8	15198.6	16224.7	16910.9	16962.2
7.5°	8176.5	8817.8	9170.5	10190.1	11248.3	12293.6	13351.7	14544.5	15339.8	15359.0
10°	6579.6	6996.5	7625.0	8388.1	9279.5	10344.0	11754.9	13140.1	13948.2	14147.0
12.5°	5297.1	6028.1	6746.4	7535.2	8215.0	9016.6	10536.5	12383.4	13050.3	13447.9
15°	4078.6	4745.6	5592.1	6515.6	7285.1	8356.1	10087.5	12197.4	13319.7	13454.3
17.5°	3007.7	3604.1	4386.4	5258.6	6413.0	7932.8	10164.5	13140.1	14198.3	14422.6
20°	2161.1	2507.4	3123.1	4136.4	5604.9	7439.0	10241.4	14095.7	15705.3	16090.0
22.5°	1712.3	1853.3	2257.3	3155.2	4700.7	6919.6	10786.6	15923.3	17776.6	18334.6
25°	1487.8	1564.8	1757.2	2488.2	4129.9	6868.3	11658.7	18116.6	20534.2	20938.2
27.5°	1436.5	1449.3	1616.1	2283.0	3822.1	6528.3	11992.2	19674.9	22252.9	22663.3
30°	1513.5	1718.7	1731.5	1930.3	3251.4	5855.0	12165.3	21181.9	23708.6	24010.0
32.5°	1308.3	1244.1	1289.0	1494.2	2860.2	5463.8	12492.4	22496.6	25369.5	25581.2
35°	910.6	955.5	1058.1	1295.4	2501.0	5053.4	12575.7	23945.9	26947.2	27165.1
37.5°	840.1	865.7	949.2	1103.1	2199.6	4822.5	12460.3	25004.0	28582.5	28883.8
40°	782.4	814.4	859.3	1000.5	1975.2	4566.0	12300.0	25959.6	29582.8	30326.8
42.5°	737.5	763.1	801.6	955.5	1782.8	4309.5	12075.6	27306.3	30480.7	31128.4
45°	686.2	724.7	769.5	929.9	1673.8	4136.4	11908.8	27222.9	31000.1	31346.4
47.5°	634.9	699.0	750.3	865.7	1641.7	4052.9	11979.4	26908.6	30576.8	30339.6
50°	583.6	666.9	756.7	718.2	1564.8	3886.3	12062.7	27338.3	29570.1	29525.2
52.5°	538.7	634.9	705.4	590.0	1391.6	3725.9	12870.7	27902.7	30281.9	29685.4
55°	474.6	570.8	564.3	474.6	1128.7	3604.1	13505.6	27915.5	29800.9	30025.4
57.5°	429.7	506.6	442.5	397.6	833.7	3014.1	12473.1	23407.2	25510.6	25908.3
60°	397.6	493.8	333.5	314.2	545.1	2174.0	10889.2	18129.4	20277.7	21028.0
62.5°	365.5	468.2	262.9	256.5	378.4	1545.5	8952.4	15173.0	17475.2	18494.9
65°	320.7	333.5	211.6	198.8	269.4	833.7	5451.0	10446.6	13063.2	13441.5
67.5°	262.9	256.5	173.2	160.3	179.6	404.0	2404.8	5233.0	7573.7	8208.6
70°	211.6	211.6	147.5	128.3	128.3	185.9	628.5	2084.2	3424.5	3790.1
72.5°	153.9	160.3	115.5	102.6	96.2	89.8	102.6	416.8	897.9	1147.9
75°	134.6	141.1	115.5	89.8	70.6	57.7	44.9	38.5	51.3	83.3
77.5°	147.5	147.5	121.9	83.3	64.2	44.9	25.7	12.9	12.9	6.4
80°	185.9	192.4	160.3	109.0	77.0	51.3	32.0	12.9	6.4	6.4
82.5°	198.8	218.1	179.6	134.6	96.2	57.7	32.0	6.4	0.0	0.0
85°	51.3	83.3	141.1	121.9	96.2	57.7	32.0	6.4	0.0	0.0
87.5°	0.0	6.4	19.3	19.3	25.7	25.7	19.3	6.4	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

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