

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: P651569

Luminaire Tested: **GALN-SA8D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651569
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-SA8D-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29043.1 lumens
Efficiency: N/A
Efficacy: 58.9 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

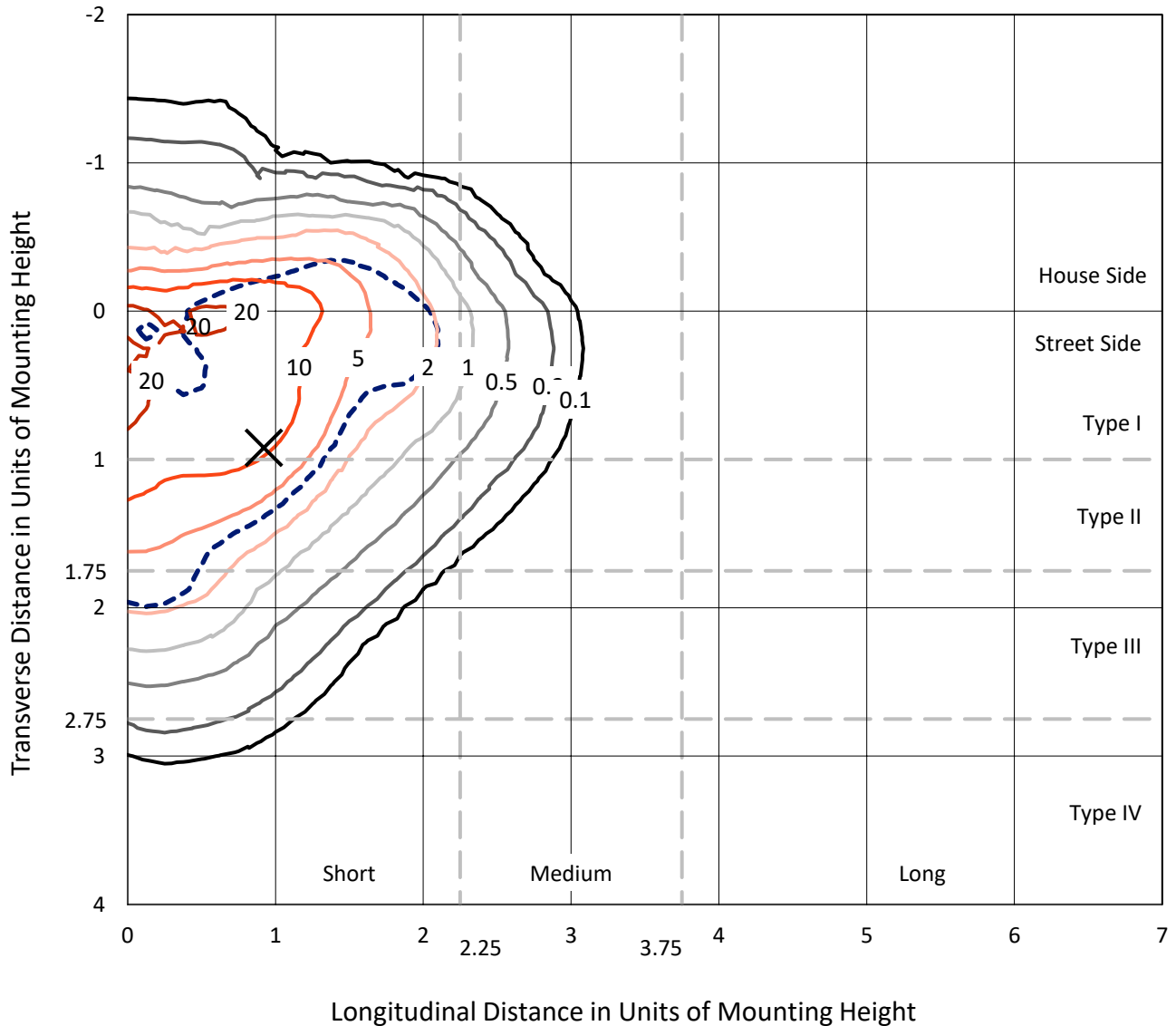
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

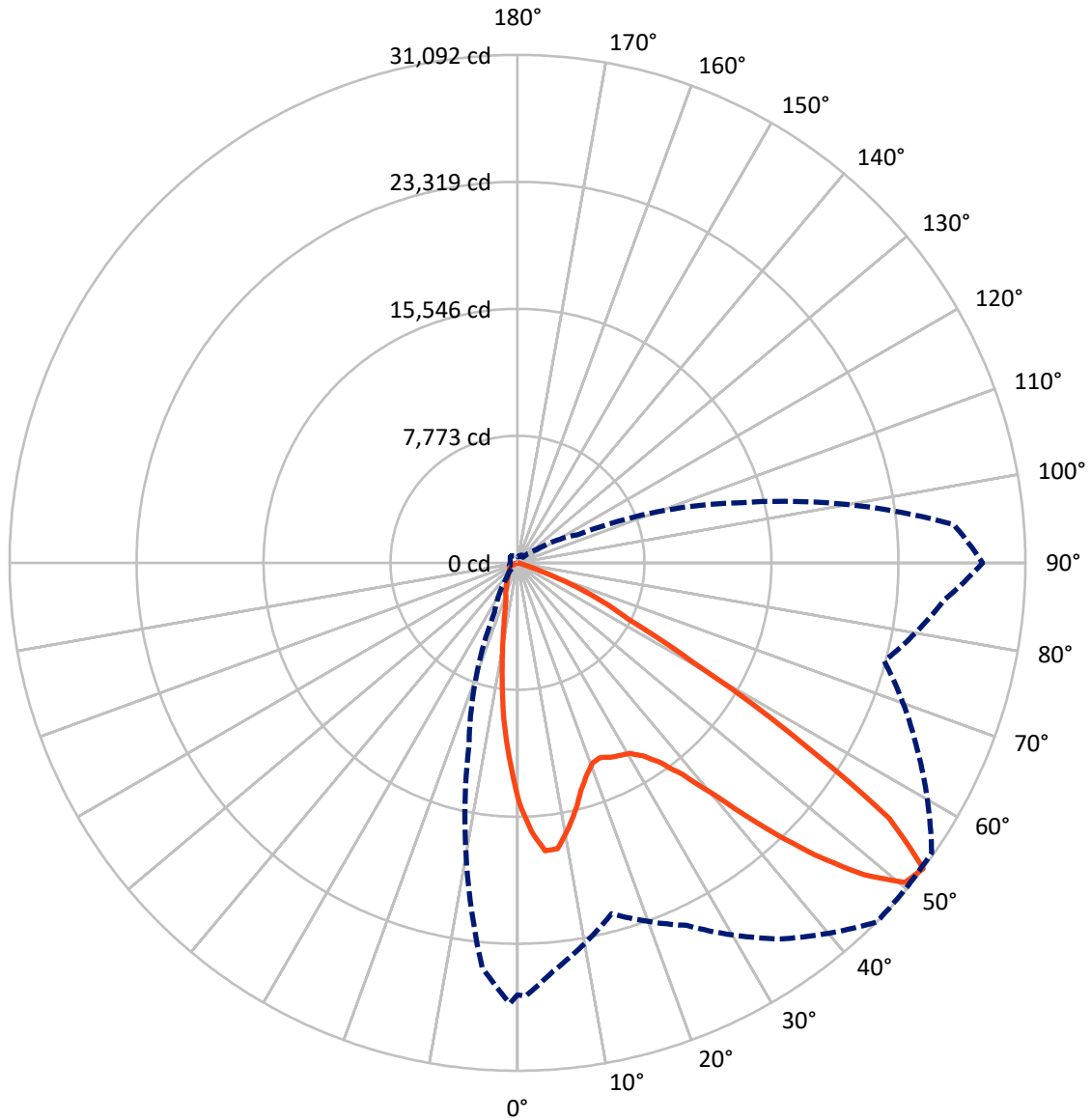
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 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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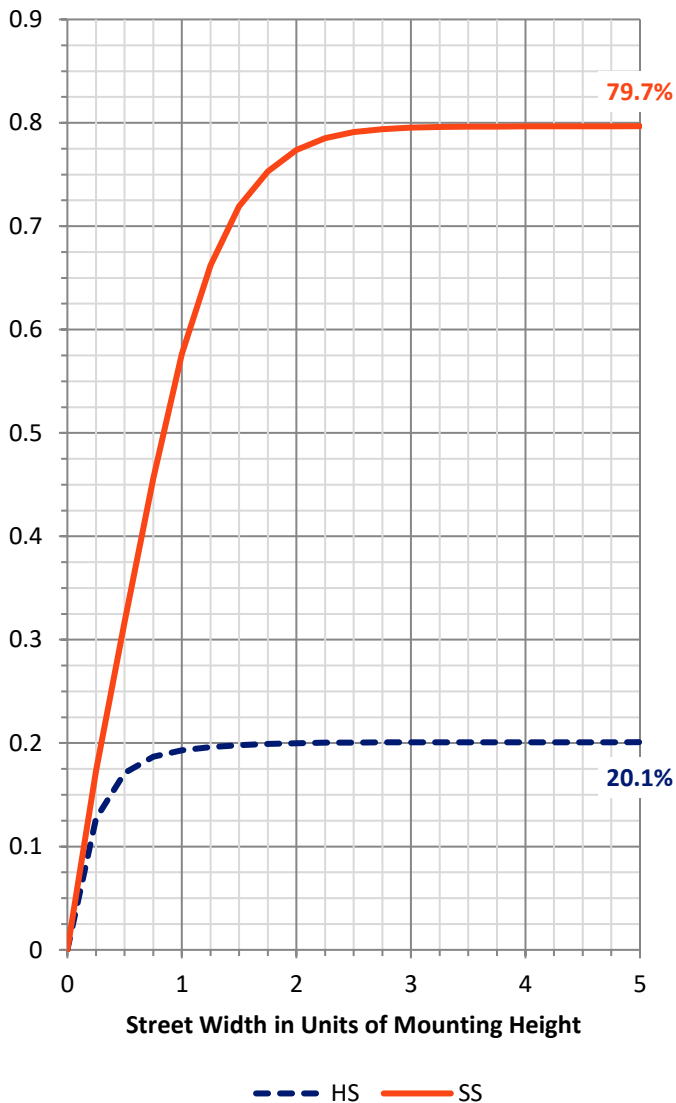
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5894.3	0.0	5894.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	23148.8	0.0	23148.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	29043.1	0.0	29043.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1074.0	3.7
10°-20°	2118.9	7.3
20°-30°	3224.6	11.1
30°-40°	4819.5	16.6
40°-50°	6863.5	23.6
50°-60°	7378.0	25.4
60°-70°	3269.4	11.3
70°-80°	264.5	0.9
80°-90°	30.8	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°	29043.1	100.0
0°-180°	29043.1	100.0

Coefficient of Utilization

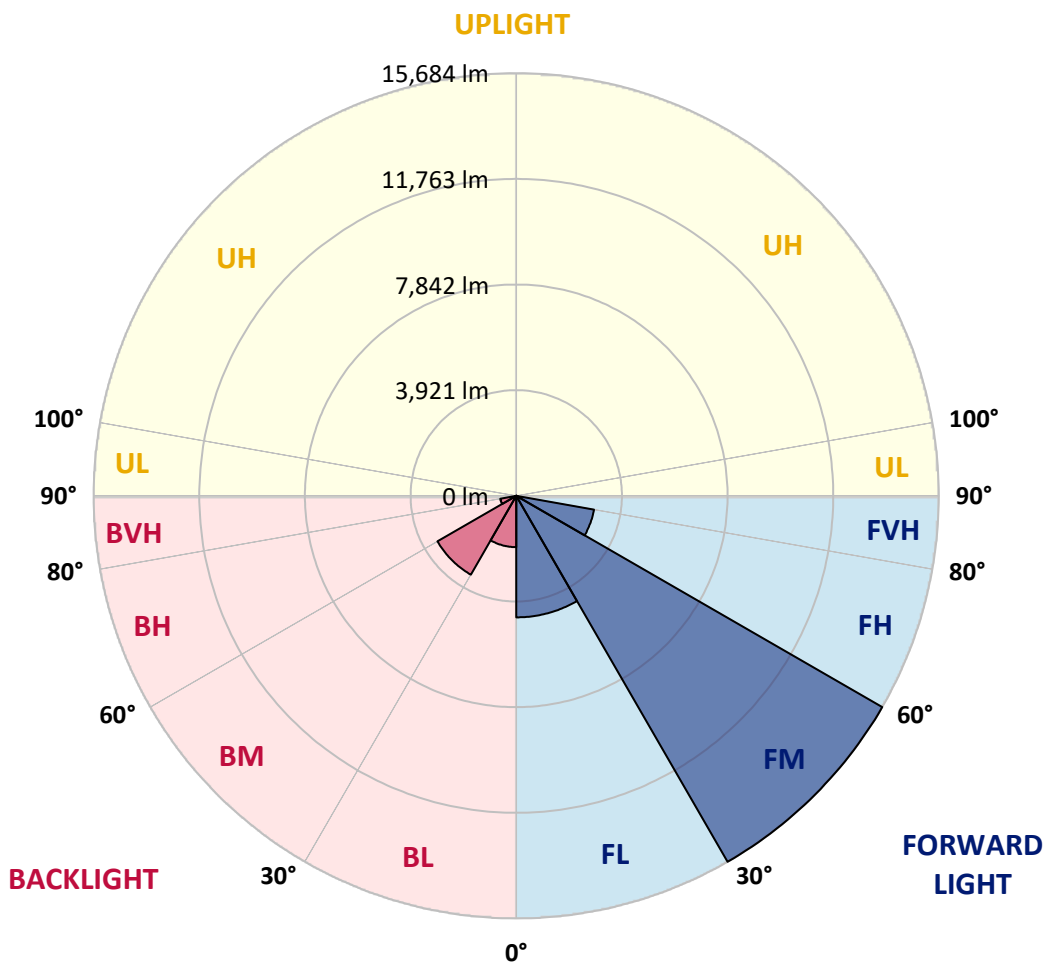


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4511.0	15.5			
FM (30°-60°)	15684.2	54.0			
FH (60°-80°)	2930.8	10.1			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1906.5	6.6	B3/2500		
BM (30°-60°)	3376.8	11.6	B3/5000		
BH (60°-80°)	603.1	2.1	B2/1000		G2/1000
BVH (80°-90°)	8.0	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°	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2
2.5°	15583.1	15628.7	15880.1	16194.2	16359.9	16736.9	16474.2	16542.7	16399.9	15897.2	15503.1
5°	15108.9	15103.2	15423.1	16199.9	16936.8	17685.1	17708.0	17308.1	16605.5	15834.3	14731.9
7.5°	13680.9	13903.7	14234.9	15474.5	16839.8	17399.5	17668.0	17199.6	16120.0	15017.5	13823.7
10°	12601.2	12715.5	13275.3	14771.9	15771.5	16519.8	16685.5	16417.0	15588.8	14212.1	12875.5
12.5°	11978.6	12035.7	12692.6	13949.3	15006.1	15560.2	15640.2	15765.8	15171.7	13880.8	12275.7
15°	11984.3	12030.0	12915.4	13966.5	14383.5	14234.9	14497.7	14492.0	14749.0	13818.0	12778.3
17.5°	12846.9	12898.2	13698.0	14217.8	14035.0	13686.6	13669.4	13932.2	14474.9	14600.5	13538.1
20°	14332.1	14452.0	15040.4	15011.8	13983.6	13281.0	13086.8	13286.7	14549.1	15263.1	15069.0
22.5°	16331.4	16497.0	16908.3	16120.0	14217.8	13006.8	12944.0	13332.4	15040.4	16742.6	16805.5
25°	18650.5	18930.4	19130.3	18119.3	15051.8	13480.9	13183.9	13852.2	15703.0	18347.8	19016.1
27.5°	20187.1	20478.4	20432.8	18987.5	15611.6	13606.6	13355.2	13977.9	16279.9	18730.5	20170.0
30°	21386.7	21563.7	21883.7	19455.9	16171.4	13960.8	13532.4	14509.1	16468.5	19393.1	21563.7
32.5°	22786.2	22906.1	22929.0	20284.2	17034.0	14406.3	14080.7	15171.7	17302.4	20027.2	22797.7
35°	24197.1	24374.2	24002.9	21306.7	17565.2	15234.6	14994.7	16319.9	17970.7	20684.1	24157.1
37.5°	25728.0	25819.4	24962.6	21729.4	18324.9	16582.7	16451.3	17559.5	19130.3	21872.2	25665.1
40°	27013.3	27099.0	25985.0	22249.2	19124.7	18467.7	18804.8	19924.4	20706.9	22643.4	26419.2
42.5°	27727.3	27927.3	26327.8	21963.6	20729.8	20604.1	22100.7	22494.9	22534.8	22860.5	27093.2
45°	27921.5	27830.1	25762.3	22197.9	22135.0	24117.2	25476.7	25996.5	24351.3	23260.3	27264.6
47.5°	27024.7	27144.6	24928.2	21992.1	23980.0	26779.0	28538.4	29503.8	25705.2	22911.9	26841.9
50°	26299.2	26145.0	24659.8	21843.6	24477.1	28035.7	30749.1	30966.1	26950.4	23340.3	26379.2
52.5°	26442.0	26539.2	25088.2	22237.8	24488.4	28110.0	31091.9	30943.3	26990.4	23243.1	26213.5
55°	26744.8	26316.4	24905.5	21369.6	22849.0	26036.4	27595.9	27367.4	24911.2	22209.3	25808.0
57.5°	23077.5	23740.2	22900.4	19078.9	18753.4	19615.9	19587.3	20290.0	18582.0	19113.2	23494.5
60°	18730.5	18844.7	19158.9	16319.9	12978.2	12681.2	12269.9	11824.4	12504.2	16342.7	21369.6
62.5°	16474.2	16337.0	17456.6	14846.2	9162.4	7671.6	7603.0	7877.2	9648.0	15588.8	20044.3
65°	11972.9	12144.3	12955.4	11521.6	6877.5	5855.0	5752.3	6563.4	7808.7	12492.7	15297.5
67.5°	7311.7	7643.0	7717.3	7106.0	4666.9	3707.3	3558.8	4295.6	5638.0	8082.9	8968.3
70°	3375.9	3775.8	4152.8	3878.6	2701.9	1525.2	1439.5	1805.0	2844.7	4649.8	4758.3
72.5°	1022.5	1028.2	1439.5	1502.4	874.0	342.7	302.8	399.9	965.4	1536.6	1616.6
75°	74.3	80.0	194.2	222.8	165.7	85.7	91.4	108.6	205.6	342.7	257.0
77.5°	5.7	5.7	5.7	28.6	51.4	57.1	74.3	85.7	108.6	125.6	114.2
80°	5.7	0.0	5.7	22.9	39.9	57.1	68.5	80.0	85.7	97.1	85.7
82.5°	0.0	0.0	0.0	17.2	39.9	57.1	62.8	85.7	97.1	114.2	97.1
85°	0.0	0.0	0.0	17.2	39.9	62.8	57.1	28.6	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°	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2
2.5°	15571.6	15348.8	14840.5	14583.4	13977.9	13892.2	13298.1	13201.0	13001.1	12892.5	12629.8
5°	14246.4	13977.9	13149.6	12452.7	11641.5	11076.1	10641.9	10247.8	10019.3	9807.9	9905.0
7.5°	13166.8	12384.1	11464.5	10299.2	9362.3	8756.9	8094.3	7551.6	7231.8	7014.6	7066.1
10°	12035.7	11527.3	10247.8	8939.7	7808.7	7380.2	6860.5	6443.4	5992.1	5603.8	5420.9
12.5°	11681.6	10927.5	9322.4	7991.4	7134.6	6717.7	6123.6	5643.7	5066.8	4592.6	4427.0
15°	11744.4	11019.0	9071.0	7648.7	6637.7	5917.9	5209.6	4615.5	3981.5	3650.1	3478.8
17.5°	12766.9	11510.2	9236.7	7288.9	5946.5	4946.8	4072.9	3318.8	2844.7	2502.0	2427.7
20°	14023.6	12572.7	9590.8	7026.1	5381.0	3935.7	2976.0	2324.9	1930.8	1873.6	1856.5
22.5°	15862.9	14309.2	10350.6	6849.0	4689.8	3067.5	2039.3	1690.8	1582.3	1570.9	1576.6
25°	18433.5	16485.5	11178.9	6700.5	4169.9	2364.9	1668.0	1433.7	1399.5	1382.4	1410.9
27.5°	19547.4	17799.4	11618.8	6380.6	3695.9	2130.7	1645.2	1422.4	1325.2	1296.7	1313.8
30°	20924.0	18673.4	12309.9	5832.3	2998.9	1753.7	1536.6	1548.0	1502.4	1359.5	1313.8
32.5°	22751.9	19764.4	12658.4	5443.8	2679.1	1450.9	1125.3	1033.9	1153.9	1176.7	1216.7
35°	23922.9	20872.6	12835.4	5215.3	2513.4	1239.5	953.9	868.2	839.7	845.4	868.2
37.5°	26099.3	22369.2	13058.2	4975.4	2387.7	1079.6	862.5	782.6	742.6	742.6	765.5
40°	27401.7	23557.3	13361.0	4844.0	2262.0	982.5	782.6	714.0	679.8	679.8	691.2
42.5°	27727.3	24145.7	13258.1	4798.3	2119.2	959.7	714.0	662.6	622.7	617.0	611.2
45°	28309.9	25042.5	13275.3	4746.9	1970.7	874.0	674.1	617.0	559.8	554.1	548.4
47.5°	28949.7	25688.0	13309.6	4547.0	1827.9	731.2	702.6	571.2	502.7	491.2	491.2
50°	28401.3	26202.1	13606.6	4347.0	1645.2	594.1	691.2	537.0	445.6	428.4	434.1
52.5°	28469.9	26807.6	14234.9	4067.2	1416.7	474.2	559.8	508.4	405.5	377.0	382.7
55°	27373.1	26167.9	14320.6	3770.1	1108.2	365.6	428.4	445.6	342.7	331.3	331.3
57.5°	23563.1	22157.8	12635.5	3056.0	731.2	302.8	308.5	388.5	297.0	285.6	291.3
60°	20164.2	17788.0	10167.9	2016.5	457.0	239.9	222.8	394.2	262.7	257.0	274.2
62.5°	18382.1	14617.7	7711.5	1251.0	314.2	182.8	154.2	319.9	228.5	228.5	251.4
65°	13281.0	9819.3	4484.1	656.9	222.8	142.8	114.2	182.8	188.5	194.2	205.6
67.5°	8225.7	4958.2	1890.7	319.9	148.5	97.1	74.3	114.2	125.6	125.6	137.1
70°	4061.4	1976.4	628.3	182.8	114.2	80.0	51.4	62.8	62.8	57.1	62.8
72.5°	1256.7	594.1	160.0	114.2	80.0	51.4	28.6	22.9	11.4	0.0	5.7
75°	142.8	114.2	102.9	80.0	51.4	22.9	5.7	0.0	0.0	0.0	0.0
77.5°	85.7	97.1	97.1	80.0	51.4	17.2	0.0	0.0	0.0	0.0	0.0
80°	68.5	74.3	80.0	74.3	45.7	22.9	0.0	0.0	0.0	0.0	0.0
82.5°	85.7	97.1	108.6	97.1	62.8	28.6	11.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	17.2	5.7	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°	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2
2.5°	12521.2	12395.6	12572.7	12309.9	12304.2	12309.9	12235.6	12167.1	12275.7	12567.0	12595.5
5°	9556.6	9825.1	9910.8	10190.6	10036.4	9807.9	9853.7	9699.4	10076.4	10242.1	10110.7
7.5°	6957.5	6940.4	7517.4	7551.6	7625.9	7631.6	7620.1	7317.4	7009.0	7077.5	7283.1
10°	5398.0	5106.7	5386.7	5358.1	5540.9	5489.5	5563.7	5238.2	5346.7	5346.7	5478.0
12.5°	4398.4	4090.0	4038.6	3964.3	4038.6	4067.2	4095.7	4032.8	4215.7	4301.3	4392.7
15°	3358.8	3187.5	3141.7	2998.9	3021.8	3101.8	3170.3	3198.8	3141.7	3273.1	3284.5
17.5°	2439.2	2433.4	2461.9	2456.3	2433.4	2416.3	2410.6	2336.3	2313.4	2324.9	2370.6
20°	1850.8	1896.5	1993.6	2090.7	2142.1	2079.3	1993.6	1867.9	1816.5	1827.9	1833.6
22.5°	1582.3	1650.9	1782.2	1890.7	1942.2	1827.9	1673.7	1565.2	1542.3	1536.6	1530.9
25°	1433.7	1513.7	1610.9	1645.2	1639.4	1570.9	1456.6	1410.9	1399.5	1388.1	1336.7
27.5°	1353.8	1382.4	1399.5	1439.5	1456.6	1410.9	1382.4	1313.8	1302.4	1302.4	1268.1
30°	1308.1	1290.9	1313.8	1285.2	1308.1	1273.9	1279.6	1279.6	1251.0	1262.4	1262.4
32.5°	1216.7	1222.4	1222.4	1165.3	1182.4	1142.4	1182.4	1216.7	1222.4	1228.1	1273.9
35°	891.1	993.9	1045.4	1045.4	1062.5	1033.9	1028.2	988.3	936.8	885.4	862.5
37.5°	782.6	822.6	891.1	931.1	959.7	936.8	885.4	822.6	794.0	771.1	748.3
40°	696.9	731.2	776.8	822.6	879.7	851.1	771.1	742.6	708.3	708.3	685.5
42.5°	628.3	645.5	674.1	742.6	805.4	748.3	691.2	668.3	651.2	645.5	639.7
45°	565.5	571.2	599.8	656.9	731.2	674.1	617.0	588.4	594.1	599.8	594.1
47.5°	508.4	519.8	537.0	605.5	651.2	622.7	559.8	542.7	542.7	542.7	548.4
50°	439.8	468.4	502.7	559.8	594.1	576.9	525.5	502.7	491.2	491.2	496.9
52.5°	394.2	417.0	462.7	531.3	576.9	548.4	496.9	462.7	439.8	434.1	445.6
55°	342.7	382.7	457.0	508.4	571.2	542.7	485.5	445.6	405.5	399.9	399.9
57.5°	308.5	371.3	439.8	502.7	554.1	531.3	485.5	434.1	382.7	377.0	377.0
60°	291.3	359.9	428.4	485.5	554.1	519.8	479.8	422.7	365.6	365.6	359.9
62.5°	274.2	337.0	405.5	462.7	531.3	502.7	462.7	405.5	348.4	348.4	337.0
65°	228.5	291.3	337.0	388.5	462.7	434.1	394.2	354.1	308.5	297.0	302.8
67.5°	160.0	199.9	245.7	297.0	342.7	331.3	314.2	285.6	245.7	239.9	234.2
70°	80.0	108.6	148.5	199.9	239.9	228.5	217.1	194.2	171.4	165.7	165.7
72.5°	11.4	34.3	62.8	91.4	125.6	131.4	125.6	119.9	114.2	108.6	114.2
75°	0.0	0.0	0.0	22.9	51.4	62.8	74.3	85.7	85.7	74.3	91.4
77.5°	0.0	0.0	0.0	0.0	5.7	28.6	57.1	74.3	91.4	80.0	108.6
80°	0.0	0.0	0.0	0.0	5.7	34.3	57.1	80.0	91.4	80.0	114.2
82.5°	0.0	0.0	0.0	0.0	5.7	39.9	57.1	74.3	85.7	80.0	102.9
85°	0.0	0.0	0.0	0.0	17.2	34.3	22.9	11.4	5.7	5.7	17.2
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: P651569

CATALOG NUMBER: GALN-SA8D-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2	14726.2
2.5°	12755.4	13161.1	13595.2	13760.9	14275.0	14663.3	14926.2	15491.6	15577.3	15583.1
5°	10247.8	10453.5	11196.1	11544.5	12309.9	12904.0	13538.1	14452.0	15063.2	15108.9
7.5°	7283.1	7854.4	8168.5	9076.7	10019.3	10950.4	11892.9	12955.4	13663.7	13680.9
10°	5860.8	6232.1	6791.8	7471.6	8265.6	9213.9	10470.5	11704.4	12424.2	12601.2
12.5°	4718.3	5369.5	6009.3	6711.9	7317.4	8031.5	9385.2	11030.4	11624.5	11978.6
15°	3633.0	4227.0	4981.1	5803.7	6489.2	7443.1	8985.4	10864.7	11864.3	11984.3
17.5°	2679.1	3210.3	3907.2	4684.0	5712.2	7066.1	9054.0	11704.4	12647.0	12846.9
20°	1925.0	2233.5	2781.9	3684.4	4992.5	6626.2	9122.5	12555.5	13989.3	14332.1
22.5°	1525.2	1650.9	2010.7	2810.5	4187.1	6163.5	9608.0	14183.5	15834.3	16331.4
25°	1325.2	1393.8	1565.2	2216.4	3678.7	6117.9	10384.9	16137.1	18290.7	18650.5
27.5°	1279.6	1290.9	1439.5	2033.5	3404.5	5815.1	10682.0	17525.2	19821.5	20187.1
30°	1348.1	1530.9	1542.3	1719.4	2896.2	5215.3	10836.1	18867.6	21118.2	21386.7
32.5°	1165.3	1108.2	1148.1	1331.0	2547.6	4866.9	11127.4	20038.6	22597.7	22786.2
35°	811.1	851.1	942.5	1153.9	2227.8	4501.3	11201.7	21329.5	24002.9	24197.1
37.5°	748.3	771.1	845.4	982.5	1959.3	4295.6	11098.9	22272.1	25459.5	25728.0
40°	696.9	725.4	765.5	891.1	1759.4	4067.2	10956.1	23123.2	26350.6	27013.3
42.5°	656.9	679.8	714.0	851.1	1588.0	3838.7	10756.2	24322.8	27150.3	27727.3
45°	611.2	645.5	685.5	828.3	1490.9	3684.4	10607.7	24248.6	27613.1	27921.5
47.5°	565.5	622.7	668.3	771.1	1462.3	3610.2	10670.5	23968.7	27236.0	27024.7
50°	519.8	594.1	674.1	639.7	1393.8	3461.6	10744.8	24351.3	26339.2	26299.2
52.5°	479.8	565.5	628.3	525.5	1239.5	3318.8	11464.5	24854.0	26973.3	26442.0
55°	422.7	508.4	502.7	422.7	1005.3	3210.3	12030.0	24865.4	26544.8	26744.8
57.5°	382.7	451.3	394.2	354.1	742.6	2684.7	11110.4	20849.7	22723.4	23077.5
60°	354.1	439.8	297.0	279.9	485.5	1936.5	9699.4	16148.5	18062.2	18730.5
62.5°	325.6	417.0	234.2	228.5	337.0	1376.6	7974.3	13515.2	15565.9	16474.2
65°	285.6	297.0	188.5	177.1	239.9	742.6	4855.4	9305.2	11635.9	11972.9
67.5°	234.2	228.5	154.2	142.8	160.0	359.9	2142.1	4661.2	6746.2	7311.7
70°	188.5	188.5	131.4	114.2	114.2	165.7	559.8	1856.5	3050.3	3375.9
72.5°	137.1	142.8	102.9	91.4	85.7	80.0	91.4	371.3	799.7	1022.5
75°	119.9	125.6	102.9	80.0	62.8	51.4	39.9	34.3	45.7	74.3
77.5°	131.4	131.4	108.6	74.3	57.1	39.9	22.9	11.4	11.4	5.7
80°	165.7	171.4	142.8	97.1	68.5	45.7	28.6	11.4	5.7	5.7
82.5°	177.1	194.2	160.0	119.9	85.7	51.4	28.6	5.7	0.0	0.0
85°	45.7	74.3	125.6	108.6	85.7	51.4	28.6	5.7	0.0	0.0
87.5°	0.0	5.7	17.2	17.2	22.9	22.9	17.2	5.7	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)