

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: P651459

Luminaire Tested: **GALN-SA6D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651459
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-SA6D-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 21327.8 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

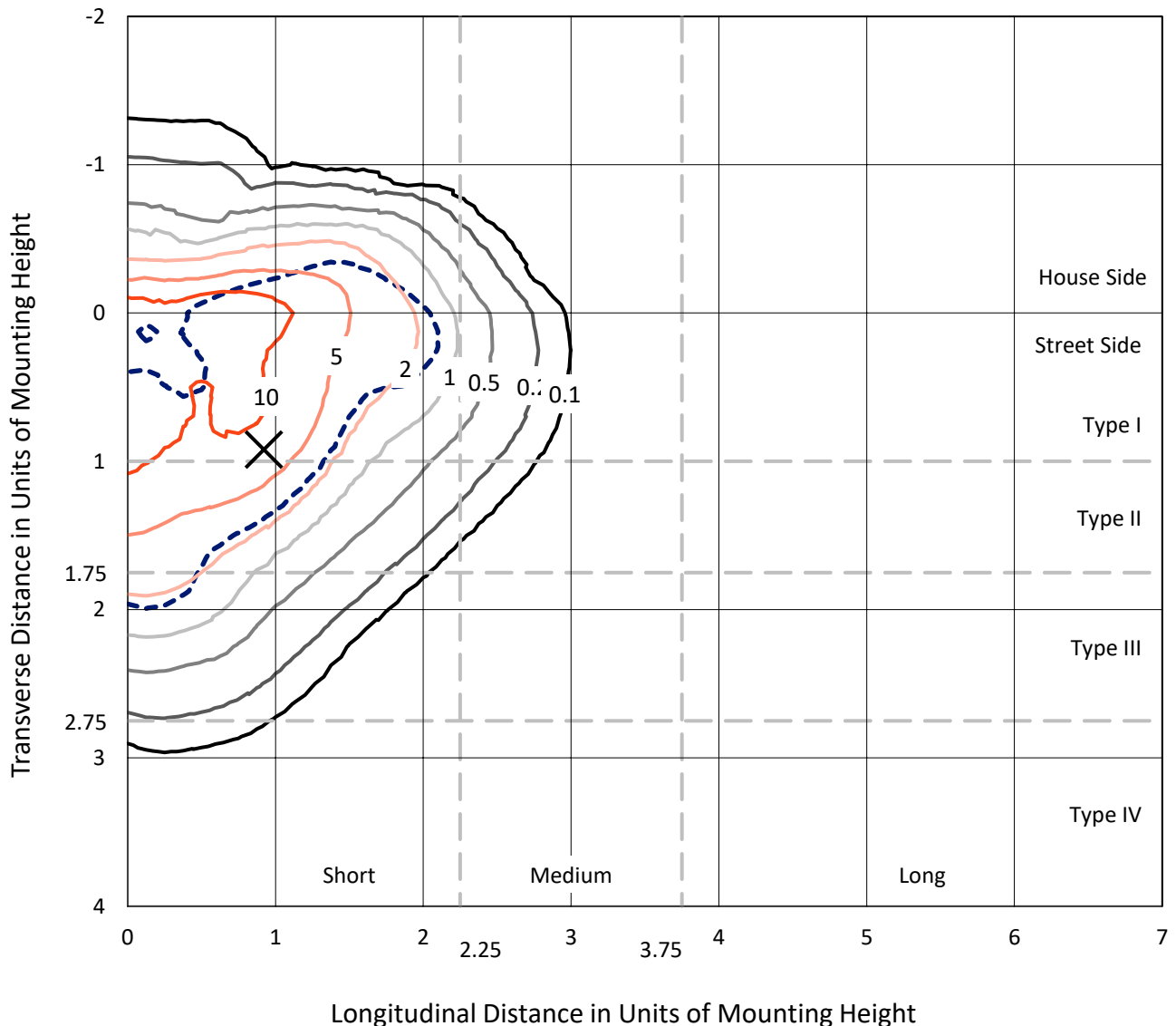
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

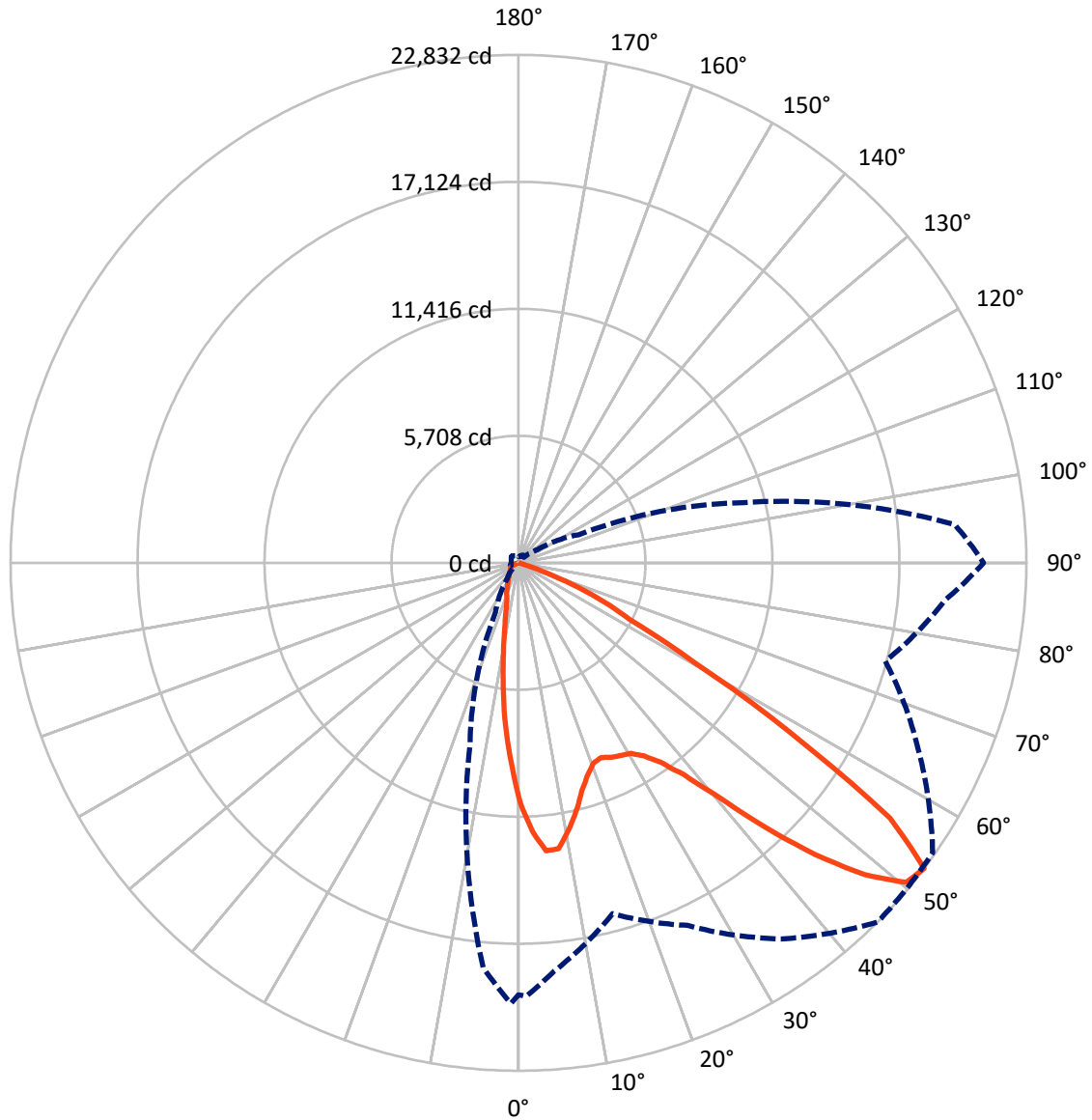
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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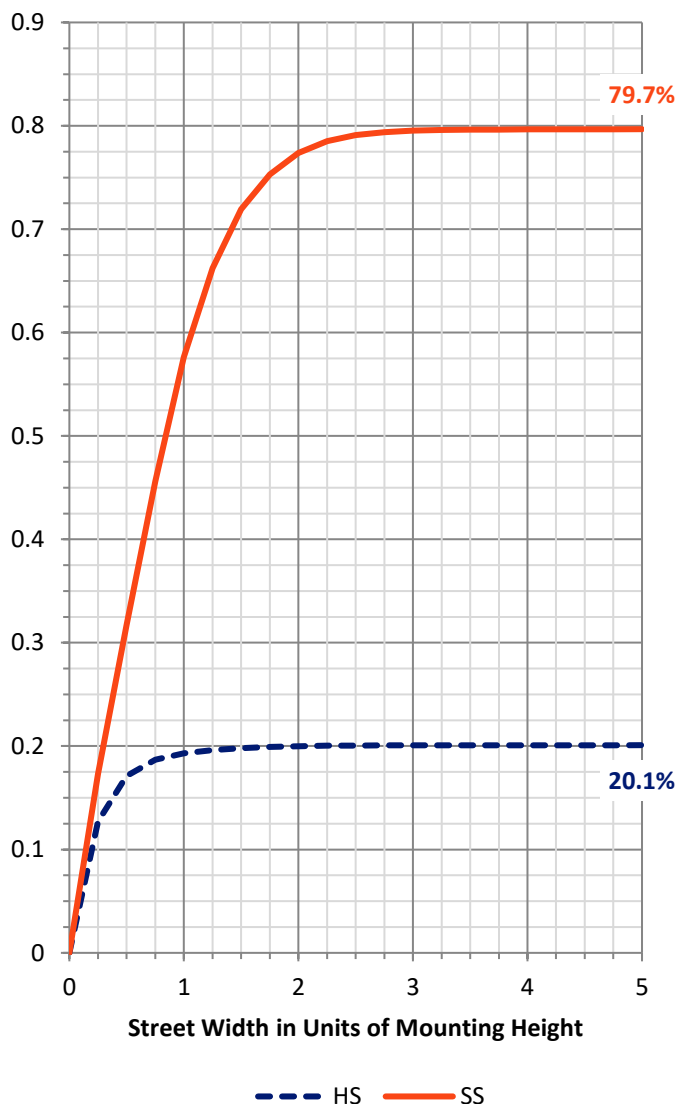
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.5	0.0	4328.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	16999.3	0.0	16999.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	21327.8	0.0	21327.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.7	3.7
10°-20°	1556.0	7.3
20°-30°	2368.0	11.1
30°-40°	3539.2	16.6
40°-50°	5040.2	23.6
50°-60°	5418.0	25.4
60°-70°	2400.9	11.3
70°-80°	194.3	0.9
80°-90°	22.6	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°	21327.8	100.0
0°-180°	21327.8	100.0

Coefficient of Utilization

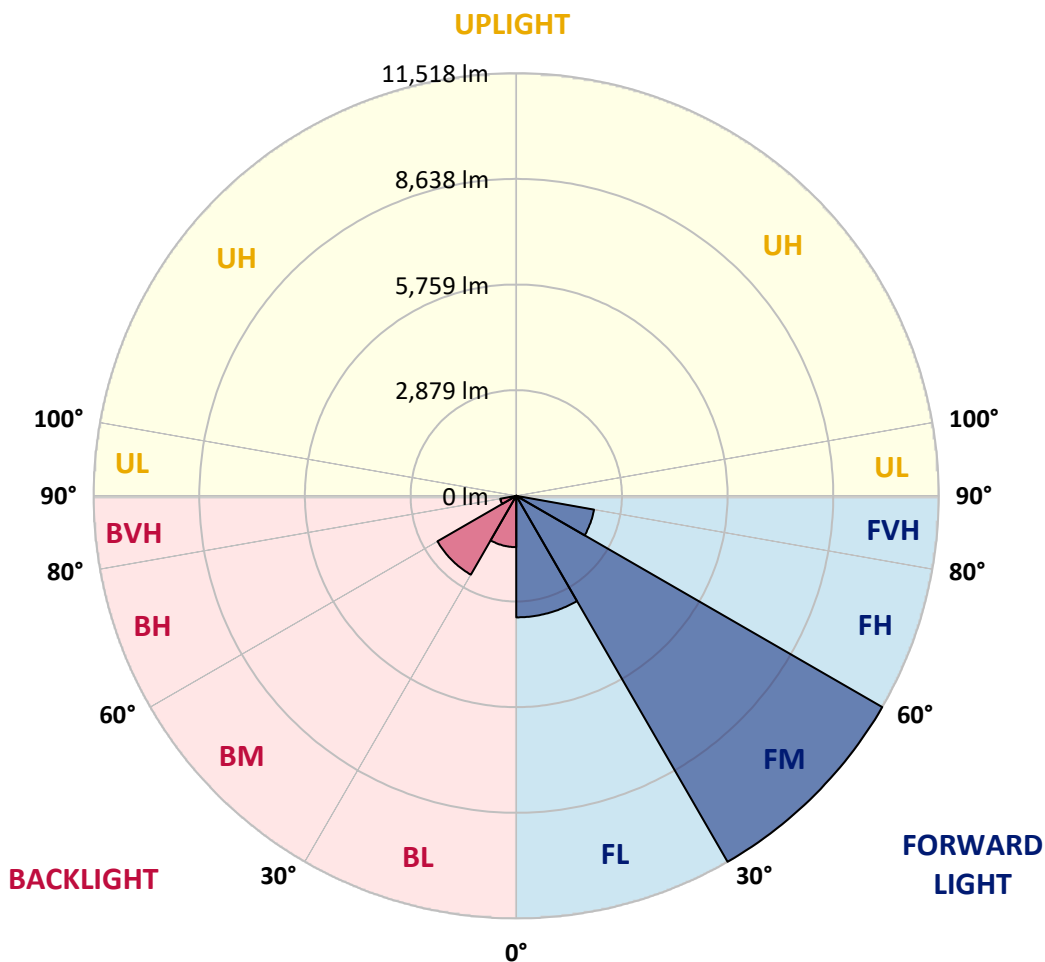


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3312.6	15.5			
FM (30°-60°)	11517.7	54.0			
FH (60°-80°)	2152.2	10.1			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1400.0	6.6	B3/2500		
BM (30°-60°)	2479.7	11.6	B2/2500		
BH (60°-80°)	442.9	2.1	B1/500		G1/500
BVH (80°-90°)	5.9	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°	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2
2.5°	11443.4	11477.0	11661.5	11892.2	12013.9	12290.7	12097.8	12148.1	12043.2	11674.1	11384.6
5°	11095.2	11091.0	11325.9	11896.4	12437.5	12987.1	13003.9	12710.2	12194.2	11627.9	10818.4
7.5°	10046.5	10210.1	10453.4	11363.7	12366.2	12777.3	12974.4	12630.5	11837.7	11028.1	10151.4
10°	9253.7	9337.6	9748.7	10847.7	11581.8	12131.3	12252.9	12055.8	11447.6	10436.6	9455.0
12.5°	8796.4	8838.4	9320.8	10243.7	11019.7	11426.6	11485.4	11577.6	11141.4	10193.3	9014.6
15°	8800.6	8834.2	9484.4	10256.2	10562.5	10453.4	10646.4	10642.2	10831.0	10147.2	9383.7
17.5°	9434.1	9471.8	10059.1	10440.8	10306.6	10050.7	10038.1	10231.1	10629.6	10721.9	9941.6
20°	10524.7	10612.8	11044.9	11023.9	10268.9	9752.9	9610.3	9757.1	10684.1	11208.5	11065.9
22.5°	11992.9	12114.5	12416.6	11837.7	10440.8	9551.6	9505.4	9790.7	11044.9	12294.9	12341.1
25°	13696.0	13901.6	14048.3	13305.9	11053.3	9899.7	9681.6	10172.4	11531.5	13473.7	13964.5
27.5°	14824.4	15038.3	15004.8	13943.4	11464.3	9992.0	9807.4	10264.7	11955.2	13754.7	14811.8
30°	15705.3	15835.4	16070.2	14287.4	11875.4	10252.0	9937.4	10654.8	12093.6	14241.3	15835.4
32.5°	16733.0	16821.1	16837.9	14895.7	12508.9	10579.3	10340.2	11141.4	12706.0	14706.9	16741.4
35°	17769.2	17899.2	17626.5	15646.6	12899.0	11187.5	11011.3	11984.5	13196.8	15189.3	17739.8
37.5°	18893.3	18960.4	18331.2	15957.0	13456.8	12177.5	12081.0	12894.8	14048.3	16061.8	18847.1
40°	19837.2	19900.1	19082.1	16338.7	14044.1	13561.7	13809.2	14631.4	15206.1	16628.2	19400.9
42.5°	20361.5	20508.3	19333.7	16129.0	15222.9	15130.6	16229.6	16519.1	16548.4	16787.5	19895.9
45°	20504.2	20437.0	18918.5	16300.9	16254.8	17710.4	18708.7	19090.4	17882.4	17081.2	20021.7
47.5°	19845.6	19933.6	18306.0	16150.0	17609.7	19665.2	20957.1	21666.1	18876.6	16825.3	19711.3
50°	19312.8	19199.5	18108.9	16040.9	17974.7	20588.0	22580.5	22740.0	19791.0	17139.9	19371.5
52.5°	19417.7	19489.0	18423.5	16330.3	17983.0	20642.6	22832.2	22723.1	19820.4	17068.6	19249.9
55°	19640.0	19325.4	18289.3	15692.7	16779.1	19119.9	20265.0	20097.2	18293.5	16309.3	18952.0
57.5°	16946.9	17433.5	16816.9	14010.6	13771.5	14404.9	14384.0	14899.9	13645.6	14035.8	17253.2
60°	13754.7	13838.6	14069.3	11984.5	9530.5	9312.4	9010.4	8683.2	9182.4	12001.3	15692.7
62.5°	12097.8	11997.1	12819.3	10902.2	6728.4	5633.6	5583.2	5784.7	7085.0	11447.6	14719.5
65°	8792.3	8918.1	9513.8	8460.9	5050.5	4299.7	4224.2	4819.8	5734.3	9174.0	11233.7
67.5°	5369.4	5612.7	5667.2	5218.3	3427.2	2722.4	2613.3	3154.5	4140.2	5935.6	6585.8
70°	2479.1	2772.8	3049.6	2848.3	1984.2	1120.0	1057.1	1325.6	2089.0	3414.5	3494.3
72.5°	750.8	755.0	1057.1	1103.2	641.8	251.7	222.4	293.7	708.9	1128.4	1187.2
75°	54.5	58.7	142.6	163.6	121.6	62.9	67.1	79.7	151.0	251.7	188.8
77.5°	4.2	4.2	4.2	20.9	37.8	42.0	54.5	62.9	79.7	92.3	83.9
80°	4.2	0.0	4.2	16.8	29.4	42.0	50.4	58.7	62.9	71.3	62.9
82.5°	0.0	0.0	0.0	12.6	29.4	42.0	46.2	62.9	71.3	83.9	71.3
85°	0.0	0.0	0.0	12.6	29.4	46.2	42.0	20.9	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°	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2
2.5°	11435.0	11271.4	10898.1	10709.3	10264.7	10201.8	9765.4	9694.1	9547.4	9467.6	9274.7
5°	10461.8	10264.7	9656.4	9144.6	8549.0	8133.7	7814.9	7525.4	7357.7	7202.5	7273.7
7.5°	9669.0	9094.3	8418.9	7563.2	6875.3	6430.6	5944.0	5545.5	5310.6	5151.2	5189.0
10°	8838.4	8465.1	7525.4	6564.8	5734.3	5419.7	5037.9	4731.7	4400.4	4115.1	3980.9
12.5°	8578.4	8024.7	6845.9	5868.5	5239.3	4933.1	4496.8	4144.4	3720.8	3372.6	3251.0
15°	8624.5	8091.8	6661.3	5616.8	4874.4	4345.8	3825.6	3389.4	2923.7	2680.4	2554.6
17.5°	9375.4	8452.5	6783.0	5352.5	4366.8	3632.7	2990.8	2437.1	2089.0	1837.3	1782.8
20°	10298.2	9232.8	7043.0	5159.6	3951.5	2890.2	2185.5	1707.3	1417.8	1375.9	1363.3
22.5°	11648.9	10508.0	7601.0	5029.5	3443.9	2252.6	1497.6	1241.7	1161.9	1153.6	1157.7
25°	13536.6	12106.2	8209.2	4920.5	3062.2	1736.7	1224.9	1052.9	1027.7	1015.2	1036.1
27.5°	14354.6	13071.0	8532.2	4685.5	2714.0	1564.7	1208.1	1044.5	973.2	952.2	964.8
30°	15365.5	13712.8	9039.7	4282.9	2202.2	1287.8	1128.4	1136.8	1103.2	998.4	964.8
32.5°	16707.8	14514.0	9295.7	3997.6	1967.4	1065.5	826.4	759.3	847.3	864.1	893.5
35°	17567.8	15327.7	9425.7	3829.8	1845.7	910.3	700.6	637.6	616.6	620.8	637.6
37.5°	19166.0	16426.8	9589.3	3653.6	1753.4	792.8	633.4	574.7	545.3	545.3	562.1
40°	20122.4	17299.3	9811.6	3557.2	1661.1	721.5	574.7	524.4	499.2	499.2	507.5
42.5°	20361.5	17731.4	9736.1	3523.6	1556.3	704.8	524.4	486.6	457.3	453.0	448.8
45°	20789.4	18390.0	9748.7	3485.9	1447.2	641.8	495.0	453.0	411.1	406.9	402.7
47.5°	21259.2	18864.0	9773.8	3339.0	1342.3	536.9	516.0	419.5	369.1	360.8	360.8
50°	20856.5	19241.5	9992.0	3192.3	1208.1	436.2	507.5	394.3	327.2	314.6	318.8
52.5°	20906.8	19686.1	10453.4	2986.7	1040.3	348.2	411.1	373.3	297.8	276.9	281.1
55°	20101.4	19216.3	10516.4	2768.6	813.8	268.4	314.6	327.2	251.7	243.3	243.3
57.5°	17303.5	16271.6	9278.8	2244.2	536.9	222.4	226.5	285.3	218.2	209.7	214.0
60°	14807.6	13062.6	7466.7	1480.7	335.6	176.2	163.6	289.5	192.9	188.8	201.3
62.5°	13498.8	10734.4	5663.0	918.6	230.7	134.2	113.3	234.9	167.8	167.8	184.6
65°	9752.9	7210.8	3292.9	482.4	163.6	104.9	83.9	134.2	138.4	142.6	151.0
67.5°	6040.5	3641.1	1388.5	234.9	109.1	71.3	54.5	83.9	92.3	92.3	100.7
70°	2982.5	1451.4	461.5	134.2	83.9	58.7	37.8	46.2	46.2	42.0	46.2
72.5°	922.8	436.2	117.5	83.9	58.7	37.8	20.9	16.8	8.4	0.0	4.2
75°	104.9	83.9	75.5	58.7	37.8	16.8	4.2	0.0	0.0	0.0	0.0
77.5°	62.9	71.3	71.3	58.7	37.8	12.6	0.0	0.0	0.0	0.0	0.0
80°	50.4	54.5	58.7	54.5	33.6	16.8	0.0	0.0	0.0	0.0	0.0
82.5°	62.9	71.3	79.7	71.3	46.2	20.9	8.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.6	4.2	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°	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2
2.5°	9195.0	9102.7	9232.8	9039.7	9035.5	9039.7	8985.2	8934.9	9014.6	9228.5	9249.5
5°	7017.9	7215.0	7277.9	7483.5	7370.3	7202.5	7236.0	7122.8	7399.6	7521.2	7424.8
7.5°	5109.2	5096.6	5520.3	5545.5	5600.1	5604.3	5595.8	5373.5	5147.0	5197.4	5348.3
10°	3964.1	3750.1	3955.7	3934.7	4068.9	4031.2	4085.7	3846.6	3926.3	3926.3	4022.8
12.5°	3230.0	3003.5	2965.7	2911.2	2965.7	2986.7	3007.7	2961.5	3095.7	3158.7	3225.8
15°	2466.6	2340.7	2307.1	2202.2	2219.1	2277.8	2328.1	2349.1	2307.1	2403.6	2412.0
17.5°	1791.2	1787.0	1808.0	1803.8	1787.0	1774.4	1770.2	1715.6	1698.9	1707.3	1740.9
20°	1359.1	1392.7	1464.0	1535.3	1573.0	1526.9	1464.0	1371.7	1333.9	1342.3	1346.5
22.5°	1161.9	1212.3	1308.8	1388.5	1426.3	1342.3	1229.0	1149.4	1132.6	1128.4	1124.2
25°	1052.9	1111.6	1183.0	1208.1	1203.9	1153.6	1069.7	1036.1	1027.7	1019.3	981.6
27.5°	994.1	1015.2	1027.7	1057.1	1069.7	1036.1	1015.2	964.8	956.4	956.4	931.2
30°	960.6	948.1	964.8	943.9	960.6	935.4	939.6	939.6	918.6	927.0	927.0
32.5°	893.5	897.7	897.7	855.7	868.3	839.0	868.3	893.5	897.7	901.9	935.4
35°	654.4	729.9	767.7	767.7	780.2	759.3	755.0	725.7	687.9	650.2	633.4
37.5°	574.7	604.1	654.4	683.7	704.8	687.9	650.2	604.1	583.1	566.3	549.5
40°	511.7	536.9	570.5	604.1	646.0	625.0	566.3	545.3	520.2	520.2	503.3
42.5°	461.5	474.0	495.0	545.3	591.5	549.5	507.5	490.8	478.2	474.0	469.8
45°	415.3	419.5	440.4	482.4	536.9	495.0	453.0	432.0	436.2	440.4	436.2
47.5°	373.3	381.7	394.3	444.6	478.2	457.3	411.1	398.5	398.5	398.5	402.7
50°	323.0	344.0	369.1	411.1	436.2	423.7	385.9	369.1	360.8	360.8	364.9
52.5°	289.5	306.2	339.8	390.1	423.7	402.7	364.9	339.8	323.0	318.8	327.2
55°	251.7	281.1	335.6	373.3	419.5	398.5	356.6	327.2	297.8	293.7	293.7
57.5°	226.5	272.7	323.0	369.1	406.9	390.1	356.6	318.8	281.1	276.9	276.9
60°	214.0	264.2	314.6	356.6	406.9	381.7	352.4	310.4	268.4	268.4	264.2
62.5°	201.3	247.5	297.8	339.8	390.1	369.1	339.8	297.8	255.9	255.9	247.5
65°	167.8	214.0	247.5	285.3	339.8	318.8	289.5	260.0	226.5	218.2	222.4
67.5°	117.5	146.8	180.4	218.2	251.7	243.3	230.7	209.7	180.4	176.2	172.0
70°	58.7	79.7	109.1	146.8	176.2	167.8	159.4	142.6	125.8	121.6	121.6
72.5°	8.4	25.1	46.2	67.1	92.3	96.5	92.3	88.1	83.9	79.7	83.9
75°	0.0	0.0	0.0	16.8	37.8	46.2	54.5	62.9	62.9	54.5	67.1
77.5°	0.0	0.0	0.0	0.0	4.2	20.9	42.0	54.5	67.1	58.7	79.7
80°	0.0	0.0	0.0	0.0	4.2	25.1	42.0	58.7	67.1	58.7	83.9
82.5°	0.0	0.0	0.0	0.0	4.2	29.4	42.0	54.5	62.9	58.7	75.5
85°	0.0	0.0	0.0	0.0	12.6	25.1	16.8	8.4	4.2	4.2	12.6
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: P651459

CATALOG NUMBER: GALN-SA6D-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2	10814.2
2.5°	9367.0	9664.8	9983.6	10105.3	10482.8	10768.0	10961.0	11376.3	11439.2	11443.4
5°	7525.4	7676.5	8221.8	8477.7	9039.7	9476.1	9941.6	10612.8	11061.7	11095.2
7.5°	5348.3	5767.8	5998.5	6665.5	7357.7	8041.4	8733.5	9513.8	10034.0	10046.5
10°	4303.8	4576.6	4987.6	5486.8	6069.8	6766.2	7689.0	8595.1	9123.7	9253.7
12.5°	3464.9	3943.1	4412.9	4928.8	5373.5	5897.8	6892.1	8100.2	8536.4	8796.4
15°	2667.9	3104.1	3657.8	4261.9	4765.3	5465.8	6598.4	7978.5	8712.6	8800.6
17.5°	1967.4	2357.5	2869.2	3439.7	4194.8	5189.0	6648.8	8595.1	9287.2	9434.1
20°	1413.6	1640.2	2042.9	2705.7	3666.3	4865.9	6699.1	9220.1	10273.1	10524.7
22.5°	1120.0	1212.3	1476.5	2063.8	3074.8	4526.2	7055.7	10415.7	11627.9	11992.9
25°	973.2	1023.5	1149.4	1627.6	2701.5	4492.6	7626.1	11850.3	13431.7	13696.0
27.5°	939.6	948.1	1057.1	1493.4	2500.1	4270.3	7844.3	12869.6	14555.9	14824.4
30°	989.9	1124.2	1132.6	1262.6	2126.7	3829.8	7957.5	13855.4	15508.1	15705.3
32.5°	855.7	813.8	843.2	977.4	1870.9	3574.0	8171.4	14715.3	16594.6	16733.0
35°	595.7	625.0	692.1	847.3	1636.0	3305.5	8226.0	15663.4	17626.5	17769.2
37.5°	549.5	566.3	620.8	721.5	1438.8	3154.5	8150.5	16355.5	18696.2	18893.3
40°	511.7	532.8	562.1	654.4	1292.0	2986.7	8045.6	16980.5	19350.6	19837.2
42.5°	482.4	499.2	524.4	625.0	1166.1	2818.9	7898.8	17861.4	19937.8	20361.5
45°	448.8	474.0	503.3	608.2	1094.8	2705.7	7789.8	17806.9	20277.6	20504.2
47.5°	415.3	457.3	490.8	566.3	1073.9	2651.1	7835.8	17601.4	20000.7	19845.6
50°	381.7	436.2	495.0	469.8	1023.5	2542.0	7890.4	17882.4	19342.2	19312.8
52.5°	352.4	415.3	461.5	385.9	910.3	2437.1	8418.9	18251.6	19807.8	19417.7
55°	310.4	373.3	369.1	310.4	738.3	2357.5	8834.2	18259.9	19493.2	19640.0
57.5°	281.1	331.4	289.5	260.0	545.3	1971.6	8158.9	15311.0	16686.9	16946.9
60°	260.0	323.0	218.2	205.5	356.6	1422.0	7122.8	11858.7	13263.9	13754.7
62.5°	239.1	306.2	172.0	167.8	247.5	1011.0	5856.0	9924.9	11430.8	12097.8
65°	209.7	218.2	138.4	130.0	176.2	545.3	3565.6	6833.3	8544.8	8792.3
67.5°	172.0	167.8	113.3	104.9	117.5	264.2	1573.0	3423.0	4954.1	5369.4
70°	138.4	138.4	96.5	83.9	83.9	121.6	411.1	1363.3	2240.0	2479.1
72.5°	100.7	104.9	75.5	67.1	62.9	58.7	67.1	272.7	587.3	750.8
75°	88.1	92.3	75.5	58.7	46.2	37.8	29.4	25.1	33.6	54.5
77.5°	96.5	96.5	79.7	54.5	42.0	29.4	16.8	8.4	8.4	4.2
80°	121.6	125.8	104.9	71.3	50.4	33.6	20.9	8.4	4.2	4.2
82.5°	130.0	142.6	117.5	88.1	62.9	37.8	20.9	4.2	0.0	0.0
85°	33.6	54.5	92.3	79.7	62.9	37.8	20.9	4.2	0.0	0.0
87.5°	0.0	4.2	12.6	12.6	16.8	16.8	12.6	4.2	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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