

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: P651074

Luminaire Tested: **GALN-SA8C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651074  
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-SA8C-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA 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: 26394.8 lumens  
Efficiency: N/A  
Efficacy: 61.5 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

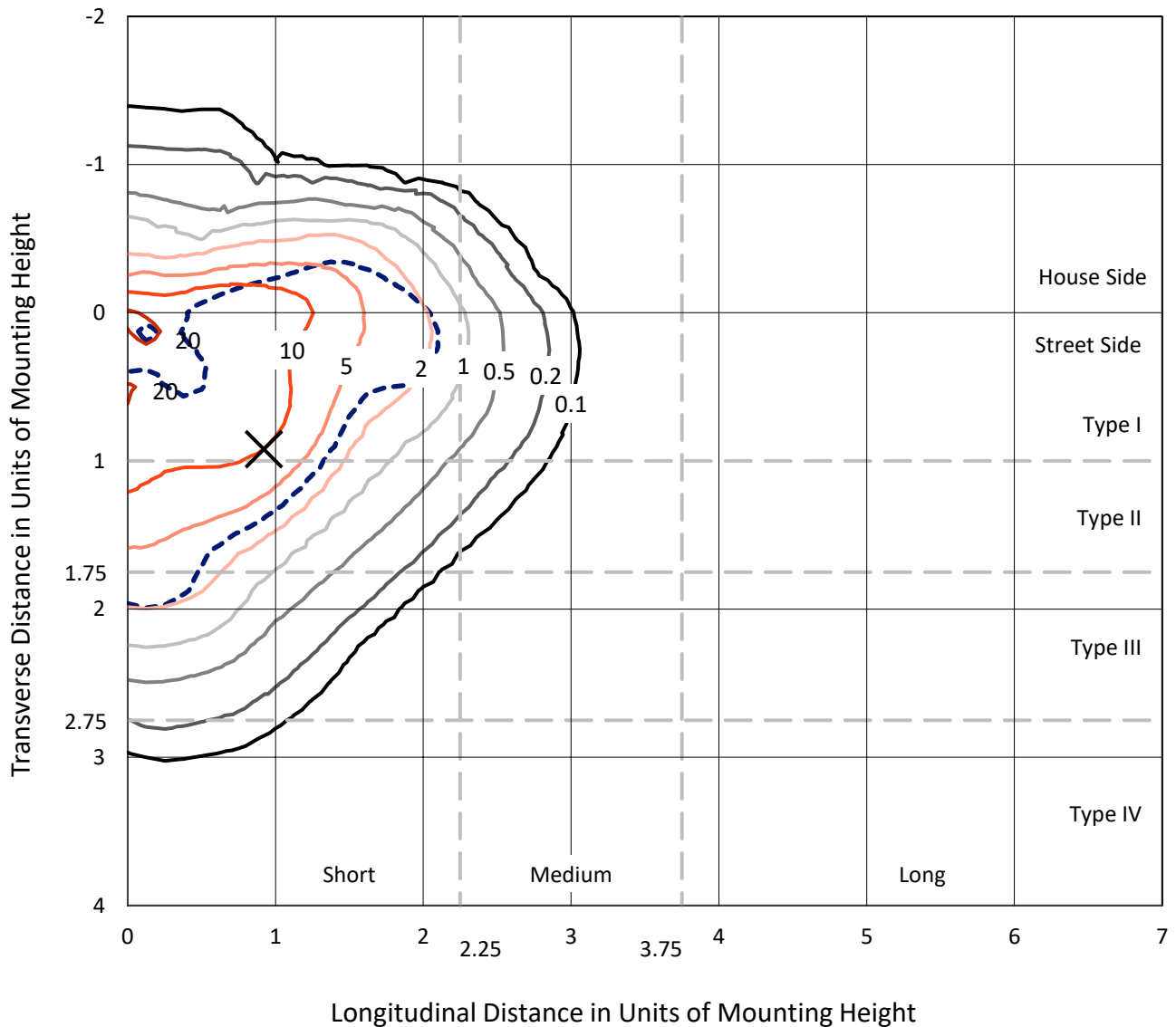
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

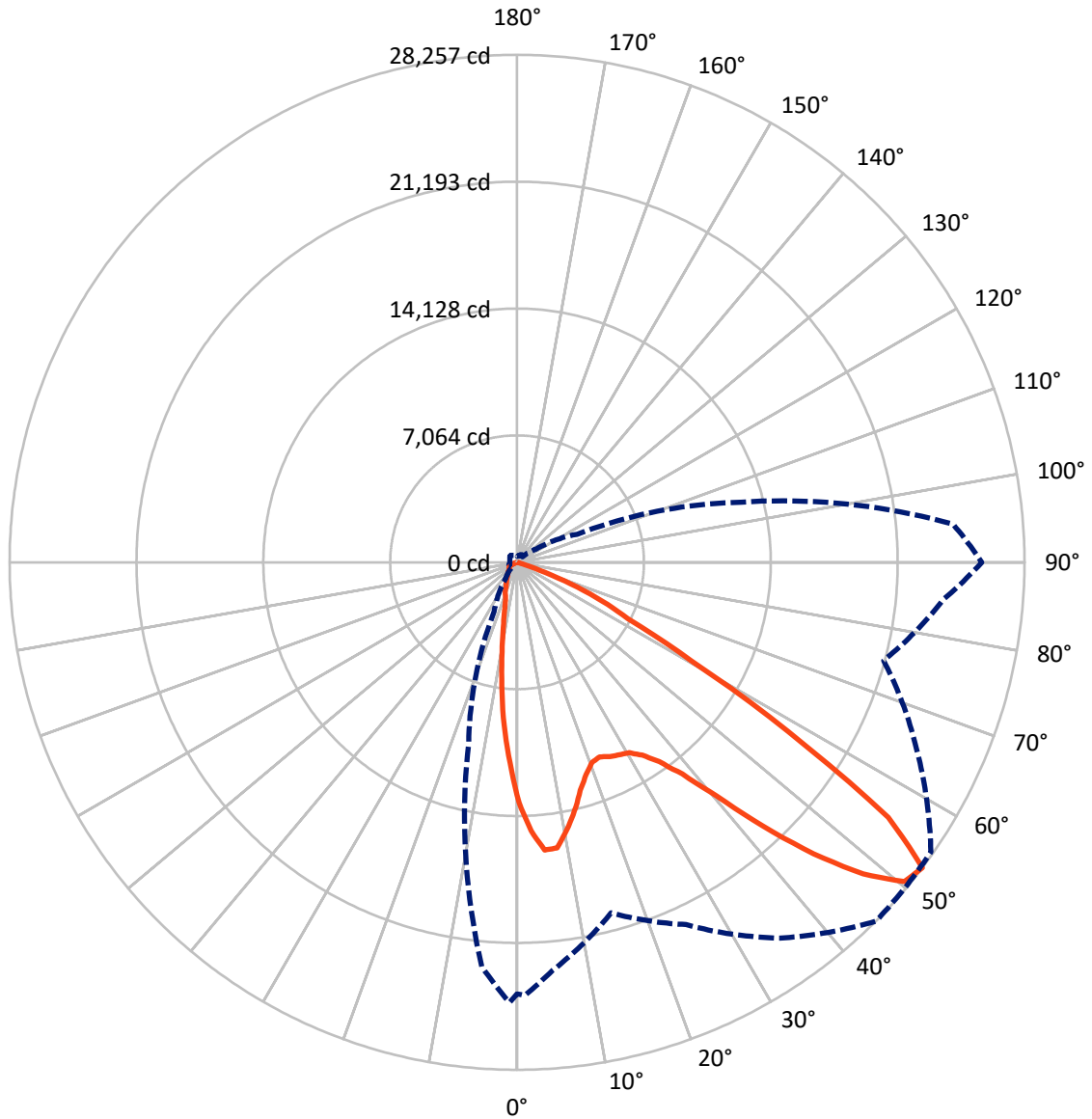
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 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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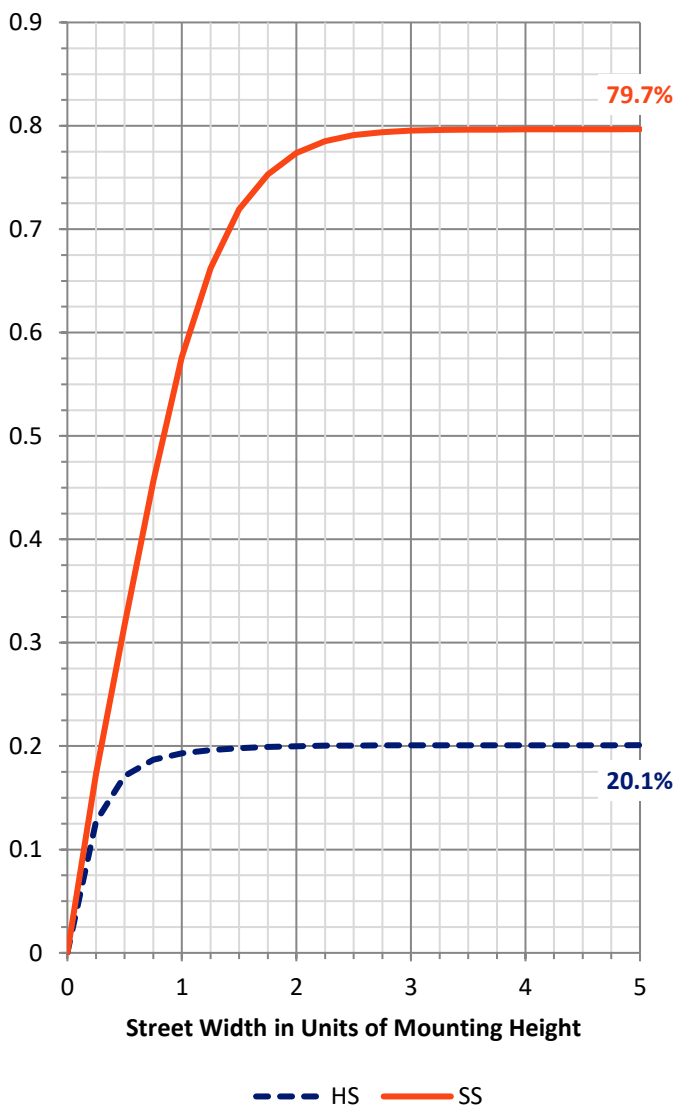
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5356.8	0.0	5356.8
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	21038.0	0.0	21038.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	26394.8	0.0	26394.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	976.0	3.7
10°-20°	1925.7	7.3
20°-30°	2930.6	11.1
30°-40°	4380.0	16.6
40°-50°	6237.6	23.6
50°-60°	6705.2	25.4
60°-70°	2971.2	11.3
70°-80°	240.4	0.9
80°-90°	28.0	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°	26394.8	100.0
0°-180°	26394.8	100.0

**Coefficient of Utilization**



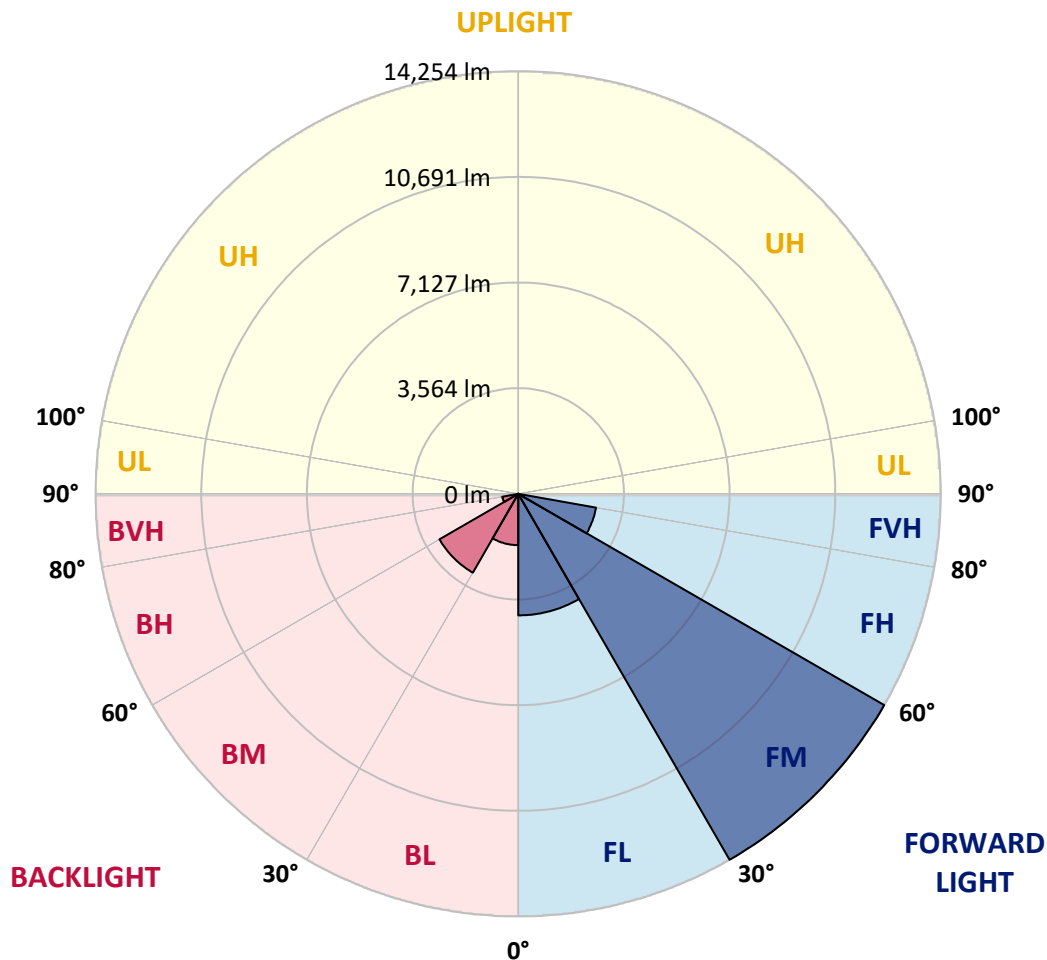
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4099.6	15.5			
FM (30°-60°)	14254.0	54.0			
FH (60°-80°)	2663.5	10.1			G2/5000
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	1732.6	6.6	B3/2500		
BM (30°-60°)	3068.9	11.6	B3/5000		
BH (60°-80°)	548.1	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.3	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°	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4
2.5°	14162.1	14203.6	14432.1	14717.6	14868.1	15210.7	14972.0	15034.2	14904.5	14447.6	14089.4
5°	13731.2	13726.0	14016.7	14722.8	15392.5	16072.5	16093.3	15729.9	15091.3	14390.5	13388.6
7.5°	12433.3	12635.9	12936.9	14063.5	15304.2	15813.0	16057.0	15631.2	14650.1	13648.2	12563.1
10°	11452.1	11556.0	12064.7	13424.9	14333.4	15013.4	15164.0	14920.0	14167.3	12916.2	11701.3
12.5°	10886.3	10938.2	11535.2	12677.3	13637.7	14141.3	14214.0	14328.2	13788.3	12615.1	11156.3
15°	10891.5	10933.1	11737.8	12693.0	13071.9	12936.9	13175.7	13170.6	13404.1	12558.0	11613.1
17.5°	11675.4	11722.1	12448.9	12921.4	12755.2	12438.6	12423.0	12661.8	13154.9	13269.2	12303.6
20°	13025.2	13134.2	13668.9	13643.0	12708.5	12069.9	11893.4	12075.2	13222.5	13871.4	13694.8
22.5°	14842.1	14992.7	15366.5	14650.1	12921.4	11820.8	11763.7	12116.7	13668.9	15216.0	15273.1
25°	16949.9	17204.3	17385.9	16467.0	13679.3	12251.7	11981.7	12589.1	14271.1	16674.8	17282.1
27.5°	18346.3	18611.1	18569.5	17256.1	14188.0	12365.9	12137.5	12703.3	14795.5	17022.5	18330.8
30°	19436.5	19597.5	19888.2	17681.9	14696.8	12687.7	12298.4	13186.1	14966.8	17624.8	19597.5
32.5°	20708.4	20817.4	20838.2	18434.6	15480.7	13092.7	12796.7	13788.3	15724.7	18201.0	20718.8
35°	21990.7	22151.6	21814.2	19363.9	15963.5	13845.4	13627.4	14831.8	16332.1	18798.0	21954.4
37.5°	23382.0	23465.1	22686.3	19748.0	16654.0	15070.6	14951.2	15958.3	17385.9	19877.8	23324.9
40°	24550.1	24627.9	23615.6	20220.4	17380.8	16783.8	17090.0	18107.6	18818.7	20578.6	24010.1
42.5°	25199.0	25380.7	23927.0	19960.9	18839.5	18725.3	20085.4	20443.7	20480.0	20775.9	24622.7
45°	25375.5	25292.4	23413.1	20173.7	20116.6	21918.0	23153.6	23626.0	22130.8	21139.3	24778.5
47.5°	24560.4	24669.5	22655.2	19986.8	21793.4	24337.2	25936.1	26813.5	23361.2	20822.7	24394.3
50°	23901.1	23760.9	22411.2	19851.8	22245.0	25479.3	27945.2	28142.5	24492.9	21212.0	23973.8
52.5°	24030.9	24119.1	22800.5	20210.1	22255.5	25546.8	28256.7	28121.7	24529.3	21123.7	23823.3
55°	24306.1	23916.7	22634.4	19421.0	20765.6	23662.3	25079.5	24871.9	22639.6	20184.1	23454.6
57.5°	20973.2	21575.4	20812.2	17339.2	17043.3	17827.2	17801.3	18439.8	16887.5	17370.4	21352.1
60°	17022.5	17126.4	17411.9	14831.8	11794.9	11524.9	11151.1	10746.1	11363.9	14852.6	19421.0
62.5°	14972.0	14847.4	15864.9	13492.4	8327.0	6972.1	6909.7	7158.9	8768.3	14167.3	18216.6
65°	10881.1	11036.9	11774.1	10471.0	6250.4	5321.2	5227.7	5964.9	7096.6	11353.6	13902.5
67.5°	6645.0	6946.1	7013.5	6458.0	4241.3	3369.2	3234.2	3903.9	5123.9	7345.8	8150.5
70°	3068.1	3431.5	3774.2	3525.0	2455.6	1386.1	1308.3	1640.5	2585.3	4225.8	4324.4
72.5°	929.2	934.4	1308.3	1365.4	794.2	311.5	275.2	363.4	877.3	1396.5	1469.1
75°	67.4	72.7	176.5	202.4	150.5	77.9	83.1	98.6	186.9	311.5	233.6
77.5°	5.2	5.2	5.2	26.0	46.8	51.9	67.4	77.9	98.6	114.2	103.9
80°	5.2	0.0	5.2	20.8	36.3	51.9	62.3	72.7	77.9	88.2	77.9
82.5°	0.0	0.0	0.0	15.6	36.3	51.9	57.1	77.9	88.2	103.9	88.2
85°	0.0	0.0	0.0	15.6	36.3	57.1	51.9	26.0	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°	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4
2.5°	14151.7	13949.2	13487.2	13253.6	12703.3	12625.4	12085.5	11997.3	11815.5	11717.0	11478.1
5°	12947.3	12703.3	11950.5	11317.3	10580.0	10066.1	9671.6	9313.3	9105.7	8913.6	9001.9
7.5°	11966.2	11254.9	10419.1	9360.1	8508.6	7958.4	7356.2	6863.0	6572.3	6375.0	6421.7
10°	10938.2	10476.2	9313.3	8124.5	7096.6	6707.2	6234.8	5855.9	5445.7	5092.8	4926.7
12.5°	10616.4	9931.1	8472.3	7262.7	6484.0	6105.1	5565.1	5129.1	4604.7	4173.9	4023.3
15°	10673.5	10014.2	8243.9	6951.3	6032.4	5378.3	4734.6	4194.7	3618.4	3317.3	3161.6
17.5°	11602.8	10460.6	8394.4	6624.2	5404.3	4495.7	3701.5	3016.2	2585.3	2273.8	2206.4
20°	12744.9	11426.2	8716.3	6385.4	4890.2	3576.9	2704.7	2112.9	1754.7	1702.8	1687.2
22.5°	14416.5	13004.4	9406.8	6224.5	4262.1	2787.7	1853.3	1536.7	1438.0	1427.6	1432.8
25°	16752.6	14982.3	10159.5	6089.5	3789.7	2149.3	1515.9	1303.0	1271.9	1256.3	1282.3
27.5°	17764.9	16176.4	10559.3	5798.8	3358.8	1936.4	1495.1	1292.6	1204.4	1178.4	1194.1
30°	19016.0	16970.6	11187.4	5300.4	2725.5	1593.8	1396.5	1406.8	1365.4	1235.5	1194.1
32.5°	20677.2	17962.2	11504.1	4947.4	2434.8	1318.6	1022.7	939.6	1048.6	1069.4	1105.7
35°	21741.5	18969.3	11665.0	4739.7	2284.2	1126.5	867.0	789.1	763.1	768.3	789.1
37.5°	23719.4	20329.5	11867.5	4521.7	2170.0	981.2	783.9	711.2	674.9	674.9	695.7
40°	24903.0	21409.3	12142.6	4402.3	2055.8	892.9	711.2	648.9	617.8	617.8	628.1
42.5°	25199.0	21944.0	12049.2	4360.8	1926.0	872.1	648.9	602.2	565.8	560.7	555.5
45°	25728.5	22759.1	12064.7	4314.1	1791.0	794.2	612.6	560.7	508.7	503.6	498.4
47.5°	26309.9	23345.7	12095.9	4132.3	1661.2	664.5	638.6	519.1	456.8	446.5	446.5
50°	25811.6	23812.8	12365.9	3950.7	1495.1	539.9	628.1	487.9	404.9	389.4	394.5
52.5°	25873.9	24363.2	12936.9	3696.3	1287.5	430.8	508.7	462.0	368.6	342.6	347.8
55°	24877.1	23781.7	13014.8	3426.3	1007.1	332.3	389.4	404.9	311.5	301.1	301.1
57.5°	21414.5	20137.4	11483.4	2777.4	664.5	275.2	280.3	353.1	270.0	259.5	264.7
60°	18325.6	16166.0	9240.7	1832.5	415.3	218.1	202.4	358.2	238.8	233.6	249.2
62.5°	16705.9	13284.8	7008.4	1136.9	285.5	166.1	140.2	290.7	207.6	207.6	228.4
65°	12069.9	8924.0	4075.2	597.0	202.4	129.8	103.9	166.1	171.3	176.5	186.9
67.5°	7475.6	4506.1	1718.3	290.7	135.0	88.2	67.4	103.9	114.2	114.2	124.6
70°	3691.1	1796.2	571.0	166.1	103.9	72.7	46.8	57.1	57.1	51.9	57.1
72.5°	1142.1	539.9	145.3	103.9	72.7	46.8	26.0	20.8	10.3	0.0	5.2
75°	129.8	103.9	93.4	72.7	46.8	20.8	5.2	0.0	0.0	0.0	0.0
77.5°	77.9	88.2	88.2	72.7	46.8	15.6	0.0	0.0	0.0	0.0	0.0
80°	62.3	67.4	72.7	67.4	41.5	20.8	0.0	0.0	0.0	0.0	0.0
82.5°	77.9	88.2	98.6	88.2	57.1	26.0	10.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	15.6	5.2	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°	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4
2.5°	11379.5	11265.3	11426.2	11187.4	11182.3	11187.4	11120.0	11057.6	11156.3	11421.0	11447.0
5°	8685.2	8929.1	9007.0	9261.4	9121.2	8913.6	8955.1	8814.9	9157.6	9308.2	9188.8
7.5°	6323.1	6307.5	6831.9	6863.0	6930.5	6935.7	6925.3	6650.1	6369.8	6432.1	6619.0
10°	4905.9	4641.1	4895.5	4869.6	5035.7	4988.9	5056.4	4760.5	4859.1	4859.1	4978.6
12.5°	3997.4	3717.1	3670.3	3602.8	3670.3	3696.3	3722.2	3665.1	3831.3	3909.1	3992.1
15°	3052.5	2896.8	2855.3	2725.5	2746.2	2818.9	2881.2	2907.2	2855.3	2974.7	2985.0
17.5°	2216.7	2211.5	2237.5	2232.3	2211.5	2195.9	2190.8	2123.3	2102.5	2112.9	2154.4
20°	1682.0	1723.5	1811.8	1900.1	1946.7	1889.6	1811.8	1697.6	1650.9	1661.2	1666.4
22.5°	1438.0	1500.3	1619.7	1718.3	1765.1	1661.2	1521.1	1422.5	1401.7	1396.5	1391.3
25°	1303.0	1375.7	1463.9	1495.1	1489.9	1427.6	1323.8	1282.3	1271.9	1261.5	1214.8
27.5°	1230.4	1256.3	1271.9	1308.3	1323.8	1282.3	1256.3	1194.1	1183.6	1183.6	1152.5
30°	1188.8	1173.3	1194.1	1168.1	1188.8	1157.6	1162.9	1162.9	1136.9	1147.3	1147.3
32.5°	1105.7	1111.0	1111.0	1059.1	1074.6	1038.3	1074.6	1105.7	1111.0	1116.2	1157.6
35°	809.9	903.3	950.0	950.0	965.6	939.6	934.4	898.1	851.4	804.7	783.9
37.5°	711.2	747.6	809.9	846.2	872.1	851.4	804.7	747.6	721.6	700.8	680.0
40°	633.4	664.5	706.0	747.6	799.5	773.6	700.8	674.9	643.7	643.7	622.9
42.5°	571.0	586.6	612.6	674.9	732.0	680.0	628.1	607.4	591.8	586.6	581.5
45°	513.9	519.1	545.1	597.0	664.5	612.6	560.7	534.7	539.9	545.1	539.9
47.5°	462.0	472.4	487.9	550.3	591.8	565.8	508.7	493.2	493.2	493.2	498.4
50°	399.7	425.7	456.8	508.7	539.9	524.4	477.6	456.8	446.5	446.5	451.6
52.5°	358.2	379.0	420.5	482.8	524.4	498.4	451.6	420.5	399.7	394.5	404.9
55°	311.5	347.8	415.3	462.0	519.1	493.2	441.3	404.9	368.6	363.4	363.4
57.5°	280.3	337.4	399.7	456.8	503.6	482.8	441.3	394.5	347.8	342.6	342.6
60°	264.7	327.1	389.4	441.3	503.6	472.4	436.1	384.2	332.3	332.3	327.1
62.5°	249.2	306.3	368.6	420.5	482.8	456.8	420.5	368.6	316.6	316.6	306.3
65°	207.6	264.7	306.3	353.1	420.5	394.5	358.2	321.9	280.3	270.0	275.2
67.5°	145.3	181.7	223.2	270.0	311.5	301.1	285.5	259.5	223.2	218.1	212.9
70°	72.7	98.6	135.0	181.7	218.1	207.6	197.3	176.5	155.8	150.5	150.5
72.5°	10.3	31.1	57.1	83.1	114.2	119.4	114.2	109.0	103.9	98.6	103.9
75°	0.0	0.0	0.0	20.8	46.8	57.1	67.4	77.9	77.9	67.4	83.1
77.5°	0.0	0.0	0.0	0.0	5.2	26.0	51.9	67.4	83.1	72.7	98.6
80°	0.0	0.0	0.0	0.0	5.2	31.1	51.9	72.7	83.1	72.7	103.9
82.5°	0.0	0.0	0.0	0.0	5.2	36.3	51.9	67.4	77.9	72.7	93.4
85°	0.0	0.0	0.0	0.0	15.6	31.1	20.8	10.3	5.2	5.2	15.6
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: P651074

CATALOG NUMBER: GALN-SA8C-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4	13383.4
2.5°	11592.3	11961.0	12355.5	12506.0	12973.3	13326.3	13565.1	14079.0	14156.9	14162.1
5°	9313.3	9500.2	10175.1	10491.8	11187.4	11727.3	12303.6	13134.2	13689.7	13731.2
7.5°	6619.0	7138.2	7423.7	8249.1	9105.7	9951.9	10808.4	11774.1	12417.8	12433.3
10°	5326.4	5663.8	6172.5	6790.3	7511.9	8373.7	9515.8	10637.1	11291.3	11452.1
12.5°	4288.1	4879.9	5461.4	6099.9	6650.1	7299.1	8529.4	10024.6	10564.5	10886.3
15°	3301.7	3841.6	4526.9	5274.4	5897.4	6764.3	8166.0	9874.0	10782.5	10891.5
17.5°	2434.8	2917.6	3550.9	4257.0	5191.4	6421.7	8228.3	10637.1	11493.7	11675.4
20°	1749.5	2029.8	2528.2	3348.4	4537.3	6022.0	8290.7	11410.7	12713.7	13025.2
22.5°	1386.1	1500.3	1827.3	2554.2	3805.3	5601.5	8731.9	12890.2	14390.5	14842.1
25°	1204.4	1266.7	1422.5	2014.3	3343.2	5559.9	9438.0	14665.7	16622.8	16949.9
27.5°	1162.9	1173.3	1308.3	1848.1	3094.0	5284.8	9707.9	15927.2	18014.1	18346.3
30°	1225.2	1391.3	1401.7	1562.6	2632.0	4739.7	9848.0	17147.1	19192.5	19436.5
32.5°	1059.1	1007.1	1043.4	1209.6	2315.4	4423.1	10112.8	18211.4	20537.1	20708.4
35°	737.1	773.6	856.6	1048.6	2024.6	4090.8	10180.3	19384.6	21814.2	21990.7
37.5°	680.0	700.8	768.3	892.9	1780.6	3903.9	10086.9	20241.2	23138.0	23382.0
40°	633.4	659.3	695.7	809.9	1598.9	3696.3	9957.1	21014.7	23947.8	24550.1
42.5°	597.0	617.8	648.9	773.6	1443.2	3488.6	9775.4	22104.9	24674.6	25199.0
45°	555.5	586.6	622.9	752.8	1354.9	3348.4	9640.4	22037.4	25095.1	25375.5
47.5°	513.9	565.8	607.4	700.8	1329.0	3281.0	9697.5	21783.1	24752.5	24560.4
50°	472.4	539.9	612.6	581.5	1266.7	3146.0	9765.0	22130.8	23937.5	23901.1
52.5°	436.1	513.9	571.0	477.6	1126.5	3016.2	10419.1	22587.7	24513.7	24030.9
55°	384.2	462.0	456.8	384.2	913.7	2917.6	10933.1	22598.1	24124.3	24306.1
57.5°	347.8	410.2	358.2	321.9	674.9	2439.9	10097.2	18948.6	20651.3	20973.2
60°	321.9	399.7	270.0	254.4	441.3	1759.9	8814.9	14676.0	16415.1	17022.5
62.5°	295.9	379.0	212.9	207.6	306.3	1251.2	7247.1	12282.8	14146.5	14972.0
65°	259.5	270.0	171.3	161.0	218.1	674.9	4412.6	8456.8	10574.8	10881.1
67.5°	212.9	207.6	140.2	129.8	145.3	327.1	1946.7	4236.2	6131.1	6645.0
70°	171.3	171.3	119.4	103.9	103.9	150.5	508.7	1687.2	2772.2	3068.1
72.5°	124.6	129.8	93.4	83.1	77.9	72.7	83.1	337.4	726.8	929.2
75°	109.0	114.2	93.4	72.7	57.1	46.8	36.3	31.1	41.5	67.4
77.5°	119.4	119.4	98.6	67.4	51.9	36.3	20.8	10.3	10.3	5.2
80°	150.5	155.8	129.8	88.2	62.3	41.5	26.0	10.3	5.2	5.2
82.5°	161.0	176.5	145.3	109.0	77.9	46.8	26.0	5.2	0.0	0.0
85°	41.5	67.4	114.2	98.6	77.9	46.8	26.0	5.2	0.0	0.0
87.5°	0.0	5.2	15.6	15.6	20.8	20.8	15.6	5.2	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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