

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: P533227

Luminaire Tested: **GALN-SA8C-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533227  
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-827-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 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: 23071 lumens  
Efficiency: N/A  
Efficacy: 53.8 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

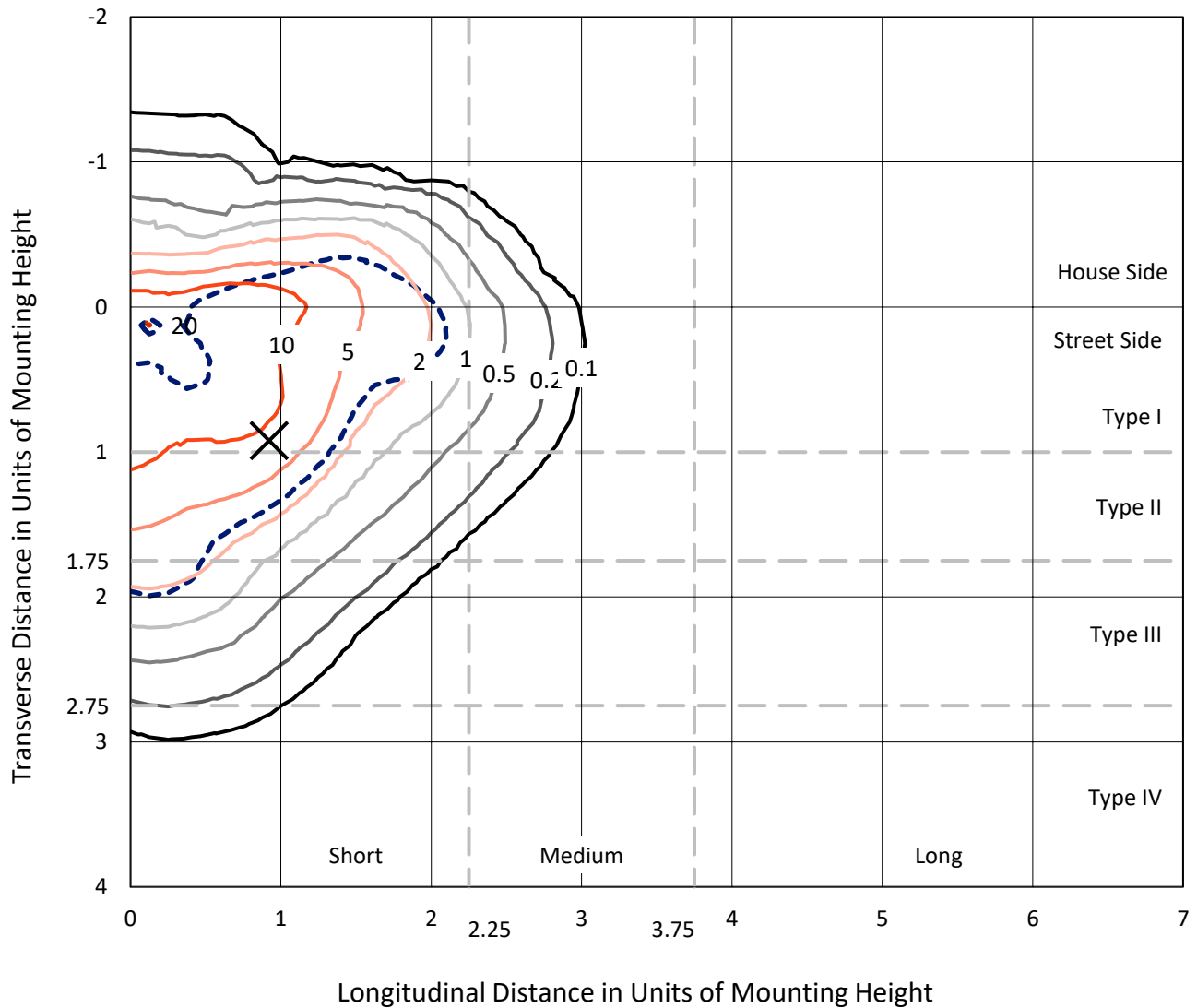
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

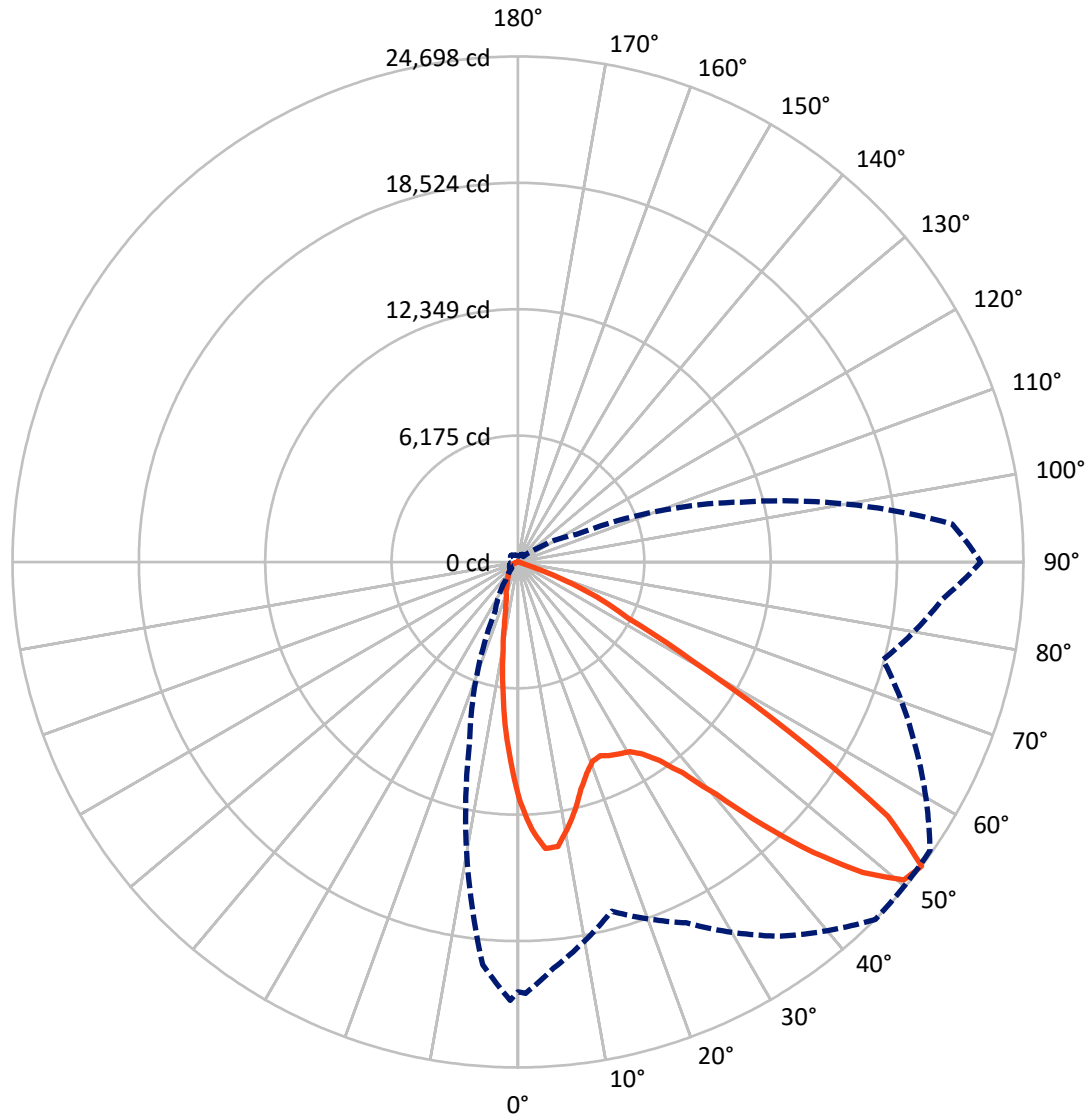
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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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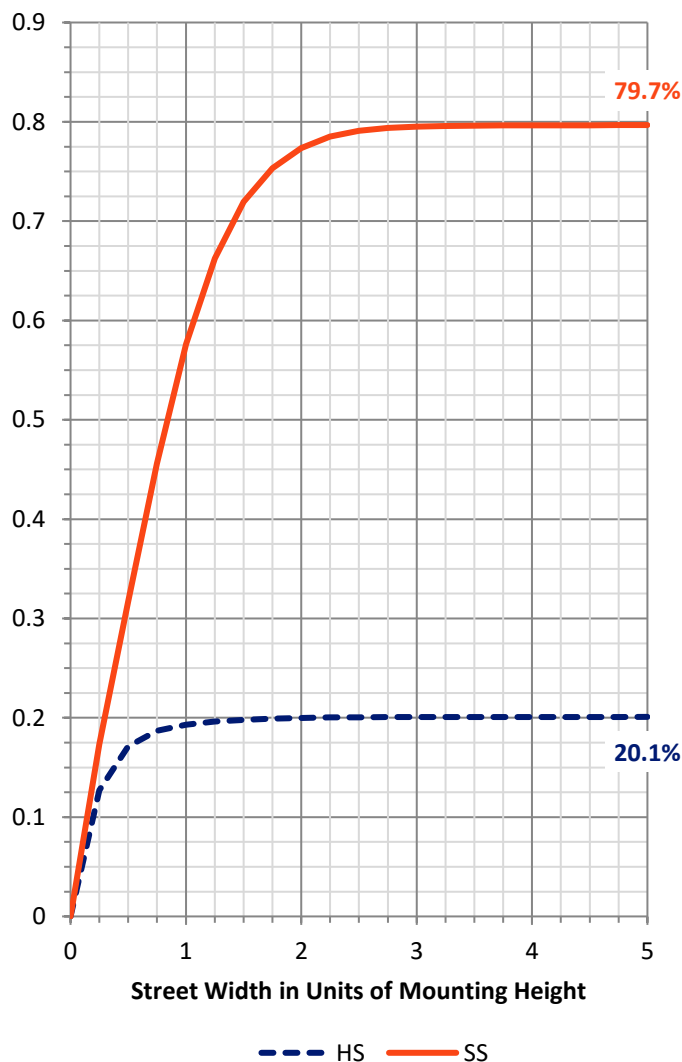
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4682.3	0.0	4682.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	18388.7	0.0	18388.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	23071.0	0.0	23071.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.1	3.7
10°-20°	1683.2	7.3
20°-30°	2561.5	11.1
30°-40°	3828.5	16.6
40°-50°	5452.1	23.6
50°-60°	5860.9	25.4
60°-70°	2597.1	11.3
70°-80°	210.1	0.9
80°-90°	24.5	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°	23071.0	100.0
0°-180°	23071.0	100.0

**Coefficient of Utilization**



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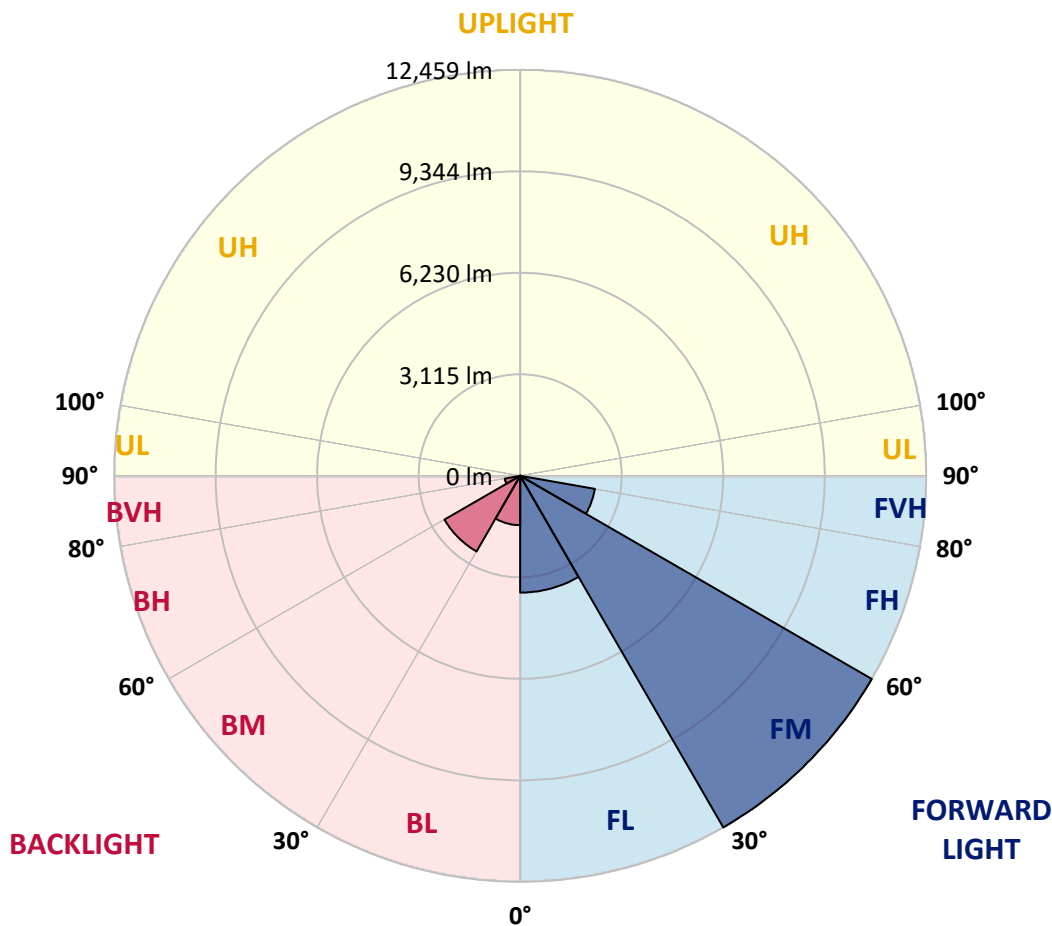
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3583.4	15.5			
FM (30°-60°)	12459.1	54.0			
FH (60°-80°)	2328.1	10.1			G2/5000
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	1514.4	6.6	B3/2500		
BM (30°-60°)	2682.4	11.6	B3/5000		
BH (60°-80°)	479.1	2.1	B1/500		G1/500
BVH (80°-90°)	6.3	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°	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1
2.5°	12378.7	12415.0	12614.7	12864.2	12995.8	13295.3	13086.6	13141.0	13027.6	12628.3	12315.2
5°	12002.1	11997.6	12251.7	12868.8	13454.1	14048.6	14066.7	13749.1	13191.0	12578.4	11702.6
7.5°	10867.7	11044.6	11307.8	12292.5	13377.0	13821.7	14035.0	13662.9	12805.3	11929.5	10981.1
10°	10010.1	10100.8	10545.5	11734.4	12528.5	13122.9	13254.5	13041.2	12383.3	11289.7	10227.9
12.5°	9515.5	9560.8	10082.7	11080.9	11920.4	12360.6	12424.1	12523.9	12052.0	11026.5	9751.4
15°	9520.0	9556.3	10259.6	11094.6	11425.8	11307.8	11516.6	11512.0	11716.2	10976.6	10150.7
17.5°	10205.2	10246.0	10881.3	11294.2	11149.0	10872.2	10858.6	11067.3	11498.4	11598.2	10754.2
20°	11385.0	11480.3	11947.6	11925.0	11108.2	10550.0	10395.8	10554.6	11557.4	12124.6	11970.3
22.5°	12973.1	13104.7	13431.5	12805.3	11294.2	10332.2	10282.3	10590.9	11947.6	13299.9	13349.8
25°	14815.4	15037.8	15196.6	14393.4	11956.7	10708.9	10472.9	11003.8	12474.0	14574.9	15105.8
27.5°	16036.1	16267.5	16231.2	15083.2	12401.4	10808.7	10609.0	11103.6	12932.3	14879.0	16022.5
30°	16989.0	17129.6	17383.7	15455.2	12846.1	11090.0	10749.7	11525.6	13082.1	15405.3	17129.6
32.5°	18100.7	18196.0	18214.1	16113.2	13531.3	11444.0	11185.3	12052.0	13744.6	15909.0	18109.8
35°	19221.5	19362.2	19067.2	16925.4	13953.3	12101.9	11911.3	12964.1	14275.5	16430.8	19189.7
37.5°	20437.6	20510.2	19829.5	17261.2	14556.8	13172.8	13068.4	13948.7	15196.6	17374.7	20387.7
40°	21458.6	21526.6	20641.8	17674.2	15192.1	14670.2	14938.0	15827.3	16449.0	17987.3	20986.6
42.5°	22025.8	22184.6	20914.0	17447.3	16467.1	16367.3	17556.2	17869.3	17901.0	18159.7	21522.1
45°	22180.0	22107.4	20464.8	17633.3	17583.4	19158.0	20237.9	20650.9	19344.0	18477.3	21658.2
47.5°	21467.6	21562.9	19802.3	17470.0	19049.1	21272.5	22670.1	23437.0	20419.4	18200.5	21322.4
50°	20891.4	20768.8	19589.0	17352.0	19443.8	22270.8	24426.2	24598.6	21408.6	18540.9	20954.9
52.5°	21004.8	21081.9	19929.4	17665.1	19452.9	22329.8	24698.4	24580.5	21440.4	18463.7	20823.3
55°	21245.3	20905.0	19784.2	16975.4	18150.6	20682.6	21921.4	21739.9	19788.7	17642.4	20501.1
57.5°	18332.1	18858.5	18191.5	15155.8	14897.1	15582.3	15559.6	16117.7	14761.0	15183.0	18663.4
60°	14879.0	14969.7	15219.3	12964.1	10309.5	10073.6	9746.9	9392.9	9932.9	12982.2	16975.4
62.5°	13086.6	12977.7	13867.1	11793.4	7278.4	6094.1	6039.6	6257.4	7664.1	12383.3	15922.6
65°	9510.9	9647.1	10291.4	9152.4	5463.3	4651.1	4569.4	5213.8	6203.0	9923.8	12151.8
67.5°	5808.2	6071.4	6130.4	5644.8	3707.3	2944.9	2827.0	3412.3	4478.7	6420.8	7124.1
70°	2681.8	2999.4	3298.9	3081.1	2146.3	1211.6	1143.5	1433.9	2259.8	3693.6	3779.9
72.5°	812.2	816.8	1143.5	1193.4	694.3	272.3	240.5	317.6	766.9	1220.6	1284.2
75°	59.0	63.5	154.3	177.0	131.6	68.1	72.6	86.2	163.4	272.3	204.2
77.5°	4.5	4.5	4.5	22.7	40.8	45.4	59.0	68.1	86.2	99.8	90.8
80°	4.5	0.0	4.5	18.2	31.8	45.4	54.5	63.5	68.1	77.1	68.1
82.5°	0.0	0.0	0.0	13.6	31.8	45.4	49.9	68.1	77.1	90.8	77.1
85°	0.0	0.0	0.0	13.6	31.8	49.9	45.4	22.7	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°	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1
2.5°	12369.6	12192.7	11788.8	11584.6	11103.6	11035.6	10563.7	10486.5	10327.7	10241.5	10032.8
5°	11316.9	11103.6	10445.7	9892.1	9247.7	8798.5	8453.6	8140.5	7959.0	7791.2	7868.3
7.5°	10459.3	9837.6	9107.1	8181.4	7437.2	6956.2	6429.9	5998.8	5744.7	5572.2	5613.1
10°	9560.8	9157.0	8140.5	7101.4	6203.0	5862.6	5449.7	5118.5	4760.0	4451.4	4306.2
12.5°	9279.5	8680.5	7405.4	6348.2	5667.5	5336.3	4864.4	4483.2	4024.9	3648.3	3516.7
15°	9329.4	8753.1	7205.8	6075.9	5272.8	4701.0	4138.3	3666.4	3162.7	2899.6	2763.4
17.5°	10141.7	9143.4	7337.4	5790.0	4723.7	3929.6	3235.3	2636.4	2259.8	1987.5	1928.5
20°	11139.9	9987.4	7618.7	5581.3	4274.5	3126.4	2364.1	1846.8	1533.7	1488.4	1474.7
22.5°	12601.1	11366.8	8222.2	5440.6	3725.4	2436.7	1619.9	1343.1	1256.9	1247.9	1252.4
25°	14643.0	13095.7	8880.2	5322.7	3312.5	1878.6	1325.0	1139.0	1111.7	1098.1	1120.8
27.5°	15527.8	14139.3	9229.6	5068.6	2935.9	1692.5	1306.8	1129.9	1052.7	1030.0	1043.7
30°	16621.4	14833.6	9778.6	4632.9	2382.3	1393.1	1220.6	1229.7	1193.4	1080.0	1043.7
32.5°	18073.5	15700.3	10055.4	4324.4	2128.2	1152.6	893.9	821.3	916.6	934.8	966.5
35°	19003.7	16580.6	10196.1	4142.9	1996.6	984.7	757.8	689.7	667.0	671.6	689.7
37.5°	20732.5	17769.4	10373.1	3952.3	1896.7	857.6	685.2	621.7	589.9	589.9	608.0
40°	21767.1	18713.3	10613.6	3847.9	1796.9	780.5	621.7	567.2	540.0	540.0	549.1
42.5°	22025.8	19180.7	10531.9	3811.6	1683.5	762.3	567.2	526.4	494.6	490.1	485.5
45°	22488.6	19893.1	10545.5	3770.8	1565.5	694.3	535.4	490.1	444.7	440.2	435.6
47.5°	22996.8	20405.8	10572.7	3612.0	1452.0	580.8	558.1	453.8	399.3	390.2	390.2
50°	22561.2	20814.2	10808.7	3453.2	1306.8	471.9	549.1	426.5	353.9	340.3	344.9
52.5°	22615.7	21295.2	11307.8	3230.8	1125.3	376.6	444.7	403.9	322.2	299.5	304.0
55°	21744.4	20787.0	11375.9	2994.9	880.3	290.4	340.3	353.9	272.3	263.2	263.2
57.5°	18717.8	17601.6	10037.3	2427.6	580.8	240.5	245.0	308.6	236.0	226.9	231.4
60°	16017.9	14130.3	8077.0	1601.8	363.0	190.6	177.0	313.1	208.7	204.2	217.8
62.5°	14602.2	11611.9	6125.8	993.7	249.6	145.2	122.5	254.1	181.5	181.5	199.7
65°	10550.0	7800.2	3562.1	521.8	177.0	113.4	90.8	145.2	149.7	154.3	163.4
67.5°	6534.2	3938.7	1502.0	254.1	118.0	77.1	59.0	90.8	99.8	99.8	108.9
70°	3226.3	1570.0	499.1	145.2	90.8	63.5	40.8	49.9	49.9	45.4	49.9
72.5°	998.3	471.9	127.1	90.8	63.5	40.8	22.7	18.2	9.1	0.0	4.5
75°	113.4	90.8	81.7	63.5	40.8	18.2	4.5	0.0	0.0	0.0	0.0
77.5°	68.1	77.1	77.1	63.5	40.8	13.6	0.0	0.0	0.0	0.0	0.0
80°	54.5	59.0	63.5	59.0	36.3	18.2	0.0	0.0	0.0	0.0	0.0
82.5°	68.1	77.1	86.2	77.1	49.9	22.7	9.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.6	4.5	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°	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1
2.5°	9946.5	9846.7	9987.4	9778.6	9774.1	9778.6	9719.7	9665.2	9751.4	9982.8	10005.5
5°	7591.5	7804.8	7872.8	8095.2	7972.7	7791.2	7827.5	7704.9	8004.4	8136.0	8031.6
7.5°	5526.9	5513.2	5971.6	5998.8	6057.8	6062.3	6053.2	5812.7	5567.7	5622.2	5785.5
10°	4288.1	4056.7	4279.0	4256.3	4401.5	4360.7	4419.7	4161.0	4247.2	4247.2	4351.6
12.5°	3494.0	3249.0	3208.1	3149.1	3208.1	3230.8	3253.5	3203.6	3348.8	3416.9	3489.5
15°	2668.1	2532.0	2495.7	2382.3	2400.4	2463.9	2518.4	2541.1	2495.7	2600.1	2609.2
17.5°	1937.6	1933.0	1955.7	1951.2	1933.0	1919.4	1914.9	1855.9	1837.7	1846.8	1883.1
20°	1470.2	1506.5	1583.6	1660.8	1701.6	1651.7	1583.6	1483.8	1443.0	1452.0	1456.6
22.5°	1256.9	1311.4	1415.7	1502.0	1542.8	1452.0	1329.5	1243.3	1225.2	1220.6	1216.1
25°	1139.0	1202.5	1279.6	1306.8	1302.3	1247.9	1157.1	1120.8	1111.7	1102.6	1061.8
27.5°	1075.4	1098.1	1111.7	1143.5	1157.1	1120.8	1098.1	1043.7	1034.6	1034.6	1007.4
30°	1039.1	1025.5	1043.7	1021.0	1039.1	1011.9	1016.4	1016.4	993.7	1002.8	1002.8
32.5°	966.5	971.1	971.1	925.7	939.3	907.5	939.3	966.5	971.1	975.6	1011.9
35°	707.9	789.6	830.4	830.4	844.0	821.3	816.8	785.0	744.2	703.3	685.2
37.5°	621.7	653.4	707.9	739.6	762.3	744.2	703.3	653.4	630.7	612.6	594.4
40°	553.6	580.8	617.1	653.4	698.8	676.1	612.6	589.9	562.7	562.7	544.5
42.5°	499.1	512.8	535.4	589.9	639.8	594.4	549.1	530.9	517.3	512.8	508.2
45°	449.2	453.8	476.5	521.8	580.8	535.4	490.1	467.4	471.9	476.5	471.9
47.5°	403.9	412.9	426.5	481.0	517.3	494.6	444.7	431.1	431.1	431.1	435.6
50°	349.4	372.1	399.3	444.7	471.9	458.3	417.5	399.3	390.2	390.2	394.8
52.5°	313.1	331.2	367.5	422.0	458.3	435.6	394.8	367.5	349.4	344.9	353.9
55°	272.3	304.0	363.0	403.9	453.8	431.1	385.7	353.9	322.2	317.6	317.6
57.5°	245.0	294.9	349.4	399.3	440.2	422.0	385.7	344.9	304.0	299.5	299.5
60°	231.4	285.9	340.3	385.7	440.2	412.9	381.2	335.8	290.4	290.4	285.9
62.5°	217.8	267.7	322.2	367.5	422.0	399.3	367.5	322.2	276.8	276.8	267.7
65°	181.5	231.4	267.7	308.6	367.5	344.9	313.1	281.3	245.0	236.0	240.5
67.5°	127.1	158.8	195.1	236.0	272.3	263.2	249.6	226.9	195.1	190.6	186.0
70°	63.5	86.2	118.0	158.8	190.6	181.5	172.4	154.3	136.1	131.6	131.6
72.5°	9.1	27.2	49.9	72.6	99.8	104.4	99.8	95.3	90.8	86.2	90.8
75°	0.0	0.0	0.0	18.2	40.8	49.9	59.0	68.1	68.1	59.0	72.6
77.5°	0.0	0.0	0.0	0.0	4.5	22.7	45.4	59.0	72.6	63.5	86.2
80°	0.0	0.0	0.0	0.0	4.5	27.2	45.4	63.5	72.6	63.5	90.8
82.5°	0.0	0.0	0.0	0.0	4.5	31.8	45.4	59.0	68.1	63.5	81.7
85°	0.0	0.0	0.0	0.0	13.6	27.2	18.2	9.1	4.5	4.5	13.6
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: P533227

CATALOG NUMBER: GALN-SA8C-827-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1	11698.1
2.5°	10132.6	10454.8	10799.6	10931.2	11339.6	11648.2	11856.9	12306.1	12374.2	12378.7
5°	8140.5	8303.9	8893.8	9170.6	9778.6	10250.6	10754.2	11480.3	11965.8	12002.1
7.5°	5785.5	6239.3	6488.8	7210.3	7959.0	8698.7	9447.4	10291.4	10854.1	10867.7
10°	4655.6	4950.6	5395.3	5935.3	6566.0	7319.2	8317.5	9297.7	9869.4	10010.1
12.5°	3748.1	4265.4	4773.6	5331.7	5812.7	6379.9	7455.4	8762.2	9234.1	9515.5
15°	2885.9	3357.9	3956.8	4610.3	5154.8	5912.6	7137.7	8630.6	9424.7	9520.0
17.5°	2128.2	2550.2	3103.8	3720.9	4537.7	5613.1	7192.2	9297.7	10046.4	10205.2
20°	1529.2	1774.2	2209.8	2926.8	3965.9	5263.7	7246.6	9973.8	11112.7	11385.0
22.5°	1211.6	1311.4	1597.3	2232.5	3326.1	4896.1	7632.3	11267.0	12578.4	12973.1
25°	1052.7	1107.2	1243.3	1760.6	2922.2	4859.8	8249.5	12818.9	14529.6	14815.4
27.5°	1016.4	1025.5	1143.5	1615.4	2704.4	4619.3	8485.4	13921.5	15745.7	16036.1
30°	1070.9	1216.1	1225.2	1365.8	2300.6	4142.9	8607.9	14987.9	16775.7	16989.0
32.5°	925.7	880.3	912.1	1057.3	2023.8	3866.1	8839.3	15918.1	17951.0	18100.7
35°	644.3	676.1	748.7	916.6	1769.7	3575.7	8898.3	16943.6	19067.2	19221.5
37.5°	594.4	612.6	671.6	780.5	1556.4	3412.3	8816.7	17692.3	20224.3	20437.6
40°	553.6	576.3	608.0	707.9	1397.6	3230.8	8703.2	18368.4	20932.2	21458.6
42.5°	521.8	540.0	567.2	676.1	1261.5	3049.3	8544.4	19321.3	21567.5	22025.8
45°	485.5	512.8	544.5	658.0	1184.3	2926.8	8426.4	19262.3	21935.0	22180.0
47.5°	449.2	494.6	530.9	612.6	1161.6	2867.8	8476.3	19040.0	21635.5	21467.6
50°	412.9	471.9	535.4	508.2	1107.2	2749.8	8535.3	19344.0	20923.1	20891.4
52.5°	381.2	449.2	499.1	417.5	984.7	2636.4	9107.1	19743.3	21426.8	21004.8
55°	335.8	403.9	399.3	335.8	798.6	2550.2	9556.3	19752.4	21086.5	21245.3
57.5°	304.0	358.5	313.1	281.3	589.9	2132.7	8825.7	16562.4	18050.8	18332.1
60°	281.3	349.4	236.0	222.3	385.7	1538.3	7704.9	12827.9	14348.1	14879.0
62.5°	258.6	331.2	186.0	181.5	267.7	1093.6	6334.6	10736.1	12365.1	13086.6
65°	226.9	236.0	149.7	140.7	190.6	589.9	3857.0	7391.8	9243.2	9510.9
67.5°	186.0	181.5	122.5	113.4	127.1	285.9	1701.6	3702.7	5359.0	5808.2
70°	149.7	149.7	104.4	90.8	90.8	131.6	444.7	1474.7	2423.1	2681.8
72.5°	108.9	113.4	81.7	72.6	68.1	63.5	72.6	294.9	635.3	812.2
75°	95.3	99.8	81.7	63.5	49.9	40.8	31.8	27.2	36.3	59.0
77.5°	104.4	104.4	86.2	59.0	45.4	31.8	18.2	9.1	9.1	4.5
80°	131.6	136.1	113.4	77.1	54.5	36.3	22.7	9.1	4.5	4.5
82.5°	140.7	154.3	127.1	95.3	68.1	40.8	22.7	4.5	0.0	0.0
85°	36.3	59.0	99.8	86.2	68.1	40.8	22.7	4.5	0.0	0.0
87.5°	0.0	4.5	13.6	13.6	18.2	18.2	13.6	4.5	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)