

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: P534007

Luminaire Tested: **GALN-SA9C-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534007
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-SA9C-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 29467 lumens
Efficiency: N/A
Efficacy: 61.3 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

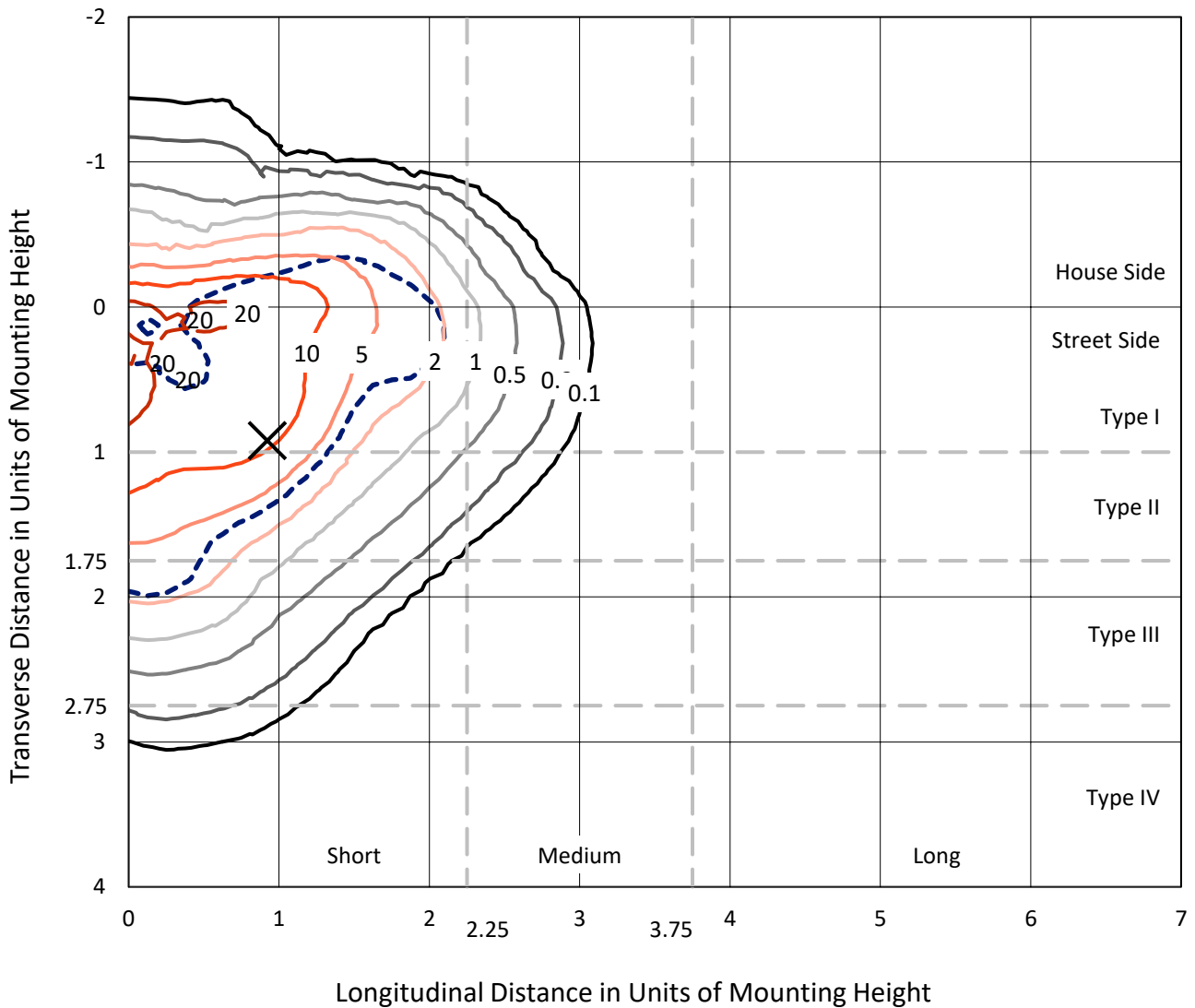
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

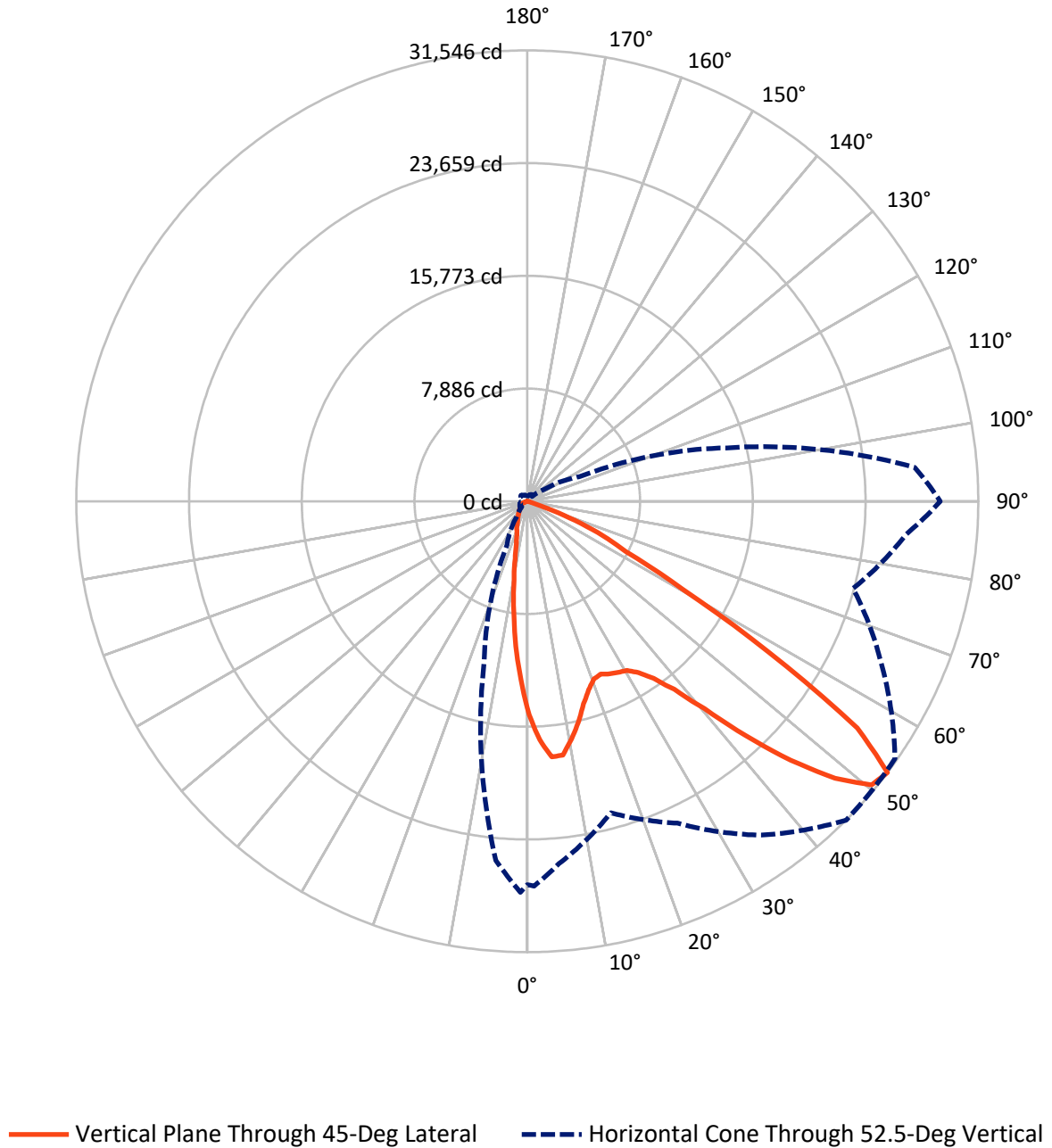
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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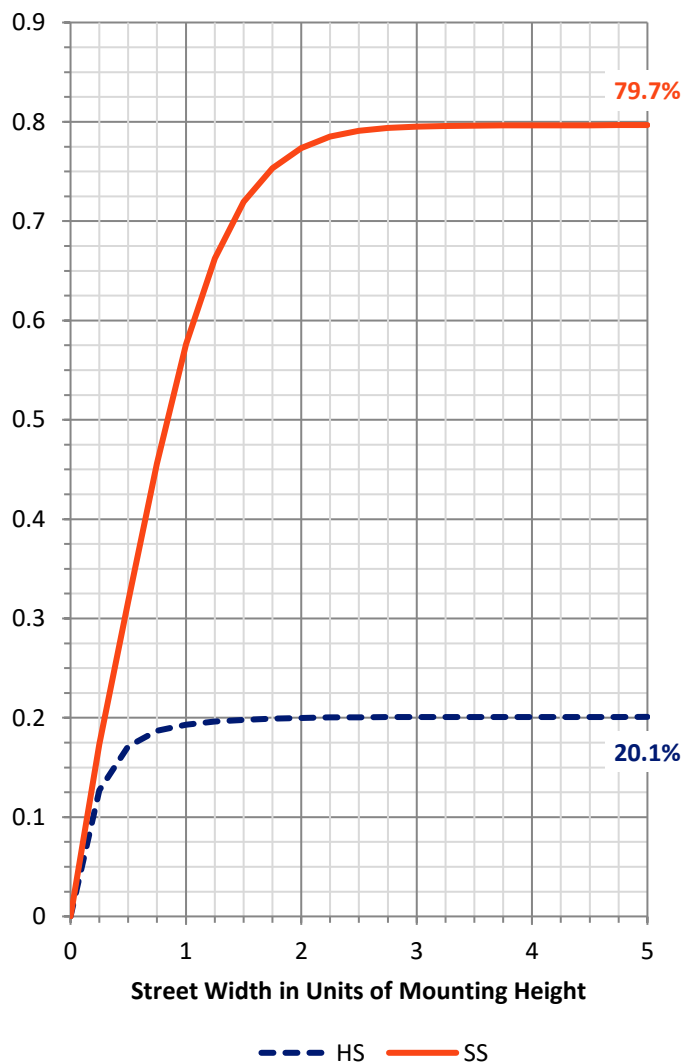
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5980.3	0.0	5980.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	23486.7	0.0	23486.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	29467.0	0.0	29467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.6	3.7
10°-20°	2149.8	7.3
20°-30°	3271.7	11.1
30°-40°	4889.9	16.6
40°-50°	6963.6	23.6
50°-60°	7485.7	25.4
60°-70°	3317.1	11.3
70°-80°	268.4	0.9
80°-90°	31.3	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°	29467.0	100.0
0°-180°	29467.0	100.0

Coefficient of Utilization

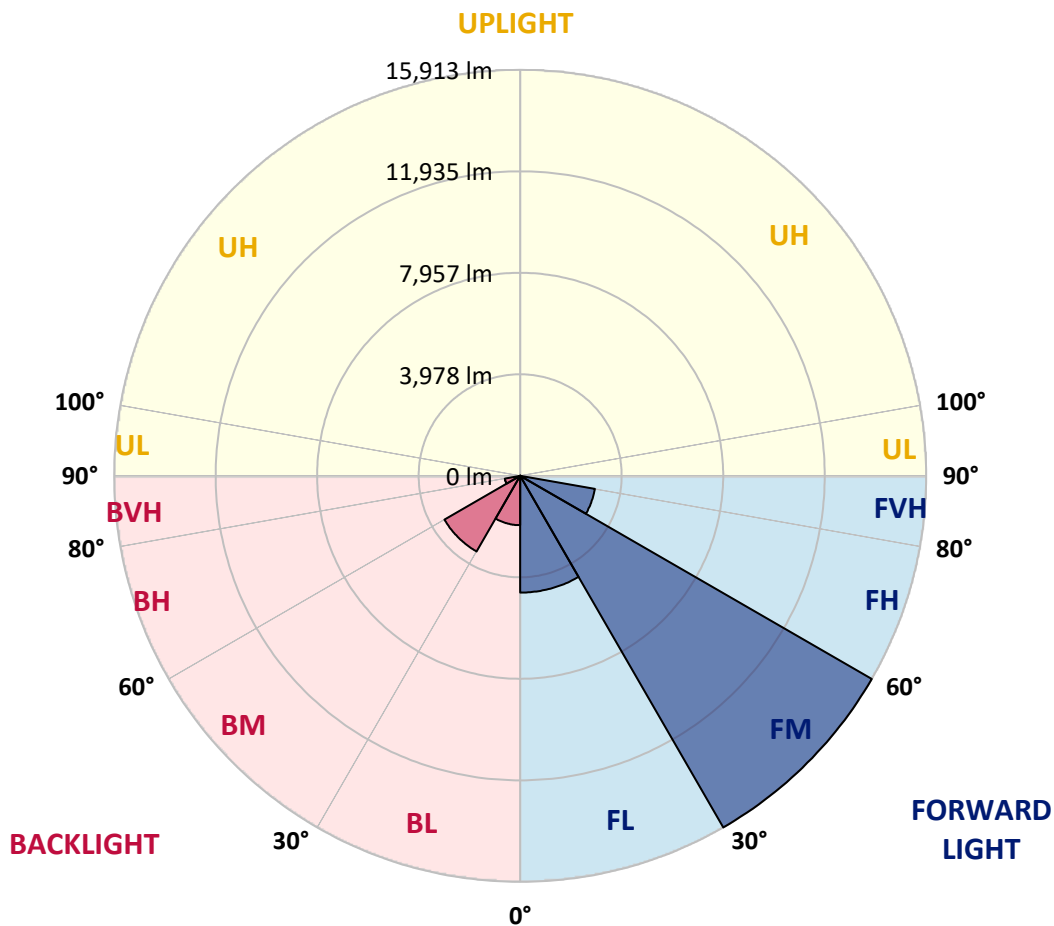


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4576.8	15.5			
FM (30°-60°)	15913.1	54.0			
FH (60°-80°)	2973.6	10.1			G2/5000
FVH (80°-90°)	23.2	0.1			G1/100
BL (0°-30°)	1934.3	6.6	B3/2500		
BM (30°-60°)	3426.1	11.6	B3/5000		
BH (60°-80°)	611.9	2.1	B2/1000		G2/1000
BVH (80°-90°)	8.1	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°	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1
2.5°	15810.5	15856.8	16111.9	16430.6	16598.7	16981.2	16714.6	16784.1	16639.3	16129.2	15729.3
5°	15329.4	15323.7	15648.2	16436.4	17184.0	17943.3	17966.5	17560.8	16847.9	16065.5	14946.9
7.5°	13880.5	14106.6	14442.7	15700.4	17085.5	17653.5	17925.9	17450.6	16355.3	15236.7	14025.4
10°	12785.2	12901.1	13469.0	14987.5	16001.7	16761.0	16929.0	16656.6	15816.3	14419.5	13063.4
12.5°	12153.4	12211.4	12877.9	14152.9	15225.1	15787.3	15868.4	15995.9	15393.2	14083.4	12454.8
15°	12159.2	12205.6	13103.9	14170.3	14593.4	14442.7	14709.3	14703.5	14964.3	14019.6	12964.8
17.5°	13034.4	13086.5	13897.9	14425.3	14239.9	13886.3	13868.9	14135.5	14686.1	14813.6	13735.6
20°	14541.2	14662.9	15259.9	15230.9	14187.7	13474.8	13277.8	13480.6	14761.5	15485.9	15288.9
22.5°	16569.7	16737.8	17155.1	16355.3	14425.3	13196.7	13132.9	13527.0	15259.9	16987.0	17050.7
25°	18922.7	19206.7	19409.6	18383.7	15271.5	13677.7	13376.3	14054.4	15932.2	18615.6	19293.7
27.5°	20481.8	20777.3	20731.0	19264.7	15839.5	13805.2	13550.2	14181.9	16517.6	19003.9	20464.4
30°	21698.8	21878.5	22203.1	19739.9	16407.4	14164.5	13729.9	14720.9	16708.8	19676.2	21878.5
32.5°	23118.8	23240.5	23263.7	20580.3	17282.6	14616.6	14286.2	15393.2	17555.0	20319.5	23130.4
35°	24550.3	24730.0	24353.2	21617.7	17821.6	15456.9	15213.5	16558.1	18233.1	20986.0	24509.7
37.5°	26103.5	26196.3	25326.9	22046.6	18592.4	16824.7	16691.4	17815.8	19409.6	22191.5	26039.8
40°	27407.5	27494.5	26364.3	22574.0	19403.8	18737.3	19079.2	20215.2	21009.2	22973.9	26804.8
42.5°	28132.0	28334.8	26712.1	22284.2	21032.3	20904.8	22423.3	22823.2	22863.8	23194.1	27488.7
45°	28329.0	28236.3	26138.3	22521.8	22458.1	24469.2	25848.5	26375.9	24706.8	23599.8	27662.6
47.5°	27419.1	27540.8	25292.1	22313.2	24330.1	27169.9	28955.0	29934.4	26080.3	23246.3	27233.7
50°	26683.1	26526.6	25019.7	22162.5	24834.3	28445.0	31197.9	31418.1	27343.8	23681.0	26764.2
52.5°	26828.0	26926.5	25454.4	22562.4	24845.9	28520.3	31545.6	31394.9	27384.4	23582.4	26596.2
55°	27135.1	26700.5	25269.0	21681.5	23182.5	26416.5	27998.7	27766.9	25274.8	22533.4	26184.7
57.5°	23414.4	24086.6	23234.7	19357.4	19027.1	19902.2	19873.2	20586.1	18853.2	19392.2	23837.4
60°	19003.9	19119.8	19438.5	16558.1	13167.7	12866.3	12449.0	11997.0	12686.6	16581.3	21681.5
62.5°	16714.6	16575.5	17711.5	15062.8	9296.2	7783.5	7714.0	7992.2	9788.8	15816.3	20336.9
65°	12147.6	12321.5	13144.5	11689.8	6977.9	5940.5	5836.2	6659.2	7922.6	12675.0	15520.7
67.5°	7418.4	7754.6	7829.9	7209.8	4735.0	3761.4	3610.7	4358.3	5720.3	8200.8	9099.1
70°	3425.2	3830.9	4213.4	3935.2	2741.3	1547.4	1460.5	1831.4	2886.2	4717.6	4827.8
72.5°	1037.4	1043.2	1460.5	1524.3	886.7	347.7	307.2	405.7	979.5	1559.0	1640.2
75°	75.3	81.1	197.1	226.0	168.1	86.9	92.7	110.1	208.6	347.7	260.8
77.5°	5.8	5.8	5.8	29.0	52.2	58.0	75.3	86.9	110.1	127.5	115.9
80°	5.8	0.0	5.8	23.2	40.6	58.0	69.5	81.1	86.9	98.5	86.9
82.5°	0.0	0.0	0.0	17.4	40.6	58.0	63.8	86.9	98.5	115.9	98.5
85°	0.0	0.0	0.0	17.4	40.6	63.8	58.0	29.0	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°	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1
2.5°	15798.9	15572.9	15057.1	14796.2	14181.9	14095.0	13492.2	13393.7	13190.9	13080.7	12814.1
5°	14454.3	14181.9	13341.5	12634.5	11811.5	11237.7	10797.3	10397.4	10165.5	9951.1	10049.6
7.5°	13358.9	12564.9	11631.8	10449.5	9499.0	8884.7	8212.4	7661.8	7337.3	7117.0	7169.2
10°	12211.4	11695.6	10397.4	9070.2	7922.6	7488.0	6960.6	6537.5	6079.6	5685.5	5500.1
12.5°	11852.1	11087.0	9458.5	8108.1	7238.7	6815.7	6212.9	5726.1	5140.7	4659.7	4491.6
15°	11915.8	11179.8	9203.5	7760.4	6734.5	6004.3	5285.6	4682.9	4039.6	3703.4	3529.5
17.5°	12953.2	11678.2	9371.5	7395.2	6033.3	5019.0	4132.3	3367.3	2886.2	2538.5	2463.1
20°	14228.3	12756.2	9730.9	7128.6	5459.5	3993.2	3019.5	2358.8	1958.9	1901.0	1883.6
22.5°	16094.5	14518.1	10501.7	6949.0	4758.2	3112.3	2069.0	1715.5	1605.4	1593.8	1599.6
25°	18702.5	16726.2	11342.1	6798.3	4230.8	2399.4	1692.3	1454.7	1419.9	1402.5	1431.5
27.5°	19832.7	18059.2	11788.3	6473.7	3749.8	2161.8	1669.1	1443.1	1344.6	1315.6	1333.0
30°	21229.4	18945.9	12489.6	5917.3	3042.7	1779.3	1559.0	1570.6	1524.3	1379.4	1333.0
32.5°	23084.0	20052.9	12843.1	5523.2	2718.2	1472.1	1141.7	1049.0	1170.7	1193.9	1234.5
35°	24272.1	21177.2	13022.8	5291.4	2550.1	1257.7	967.9	880.9	852.0	857.8	880.9
37.5°	26480.2	22695.7	13248.8	5048.0	2422.6	1095.4	875.1	794.0	753.4	753.4	776.6
40°	27801.6	23901.2	13556.0	4914.7	2295.1	996.8	794.0	724.5	689.7	689.7	701.3
42.5°	28132.0	24498.1	13451.7	4868.3	2150.2	973.7	724.5	672.3	631.7	625.9	620.1
45°	28723.2	25408.0	13469.0	4816.2	1999.5	886.7	683.9	625.9	568.0	562.2	556.4
47.5°	29372.3	26063.0	13503.8	4613.3	1854.6	741.8	712.9	579.6	510.0	498.4	498.4
50°	28815.9	26584.6	13805.2	4410.5	1669.1	602.7	701.3	544.8	452.1	434.7	440.5
52.5°	28885.4	27198.9	14442.7	4126.5	1437.3	481.0	568.0	515.8	411.5	382.5	388.3
55°	27772.7	26549.8	14529.6	3825.1	1124.4	370.9	434.7	452.1	347.7	336.1	336.1
57.5°	23907.0	22481.3	12819.9	3100.7	741.8	307.2	313.0	394.1	301.4	289.8	295.6
60°	20458.6	18047.6	10316.2	2045.9	463.7	243.4	226.0	399.9	266.6	260.8	278.2
62.5°	18650.3	14831.0	7824.1	1269.2	318.8	185.5	156.5	324.6	231.8	231.8	255.0
65°	13474.8	9962.7	4549.6	666.5	226.0	144.9	115.9	185.5	191.3	197.1	208.6
67.5°	8345.7	5030.6	1918.4	324.6	150.7	98.5	75.3	115.9	127.5	127.5	139.1
70°	4120.7	2005.3	637.5	185.5	115.9	81.1	52.2	63.8	63.8	58.0	63.8
72.5°	1275.0	602.7	162.3	115.9	81.1	52.2	29.0	23.2	11.6	0.0	5.8
75°	144.9	115.9	104.3	81.1	52.2	23.2	5.8	0.0	0.0	0.0	0.0
77.5°	86.9	98.5	98.5	81.1	52.2	17.4	0.0	0.0	0.0	0.0	0.0
80°	69.5	75.3	81.1	75.3	46.4	23.2	0.0	0.0	0.0	0.0	0.0
82.5°	86.9	98.5	110.1	98.5	63.8	29.0	11.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	17.4	5.8	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°	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1
2.5°	12704.0	12576.5	12756.2	12489.6	12483.8	12489.6	12414.2	12344.7	12454.8	12750.4	12779.4
5°	9696.1	9968.5	10055.4	10339.4	10182.9	9951.1	9997.5	9841.0	10223.5	10391.6	10258.3
7.5°	7059.1	7041.7	7627.1	7661.8	7737.2	7743.0	7731.4	7424.2	7111.2	7180.8	7389.4
10°	5476.9	5181.3	5465.3	5436.3	5621.8	5569.6	5644.9	5314.6	5424.7	5424.7	5558.0
12.5°	4462.6	4149.7	4097.5	4022.2	4097.5	4126.5	4155.5	4091.7	4277.2	4364.1	4456.8
15°	3407.8	3234.0	3187.6	3042.7	3065.9	3147.0	3216.6	3245.6	3187.6	3320.9	3332.5
17.5°	2474.7	2468.9	2497.9	2492.1	2468.9	2451.6	2445.8	2370.4	2347.2	2358.8	2405.2
20°	1877.8	1924.1	2022.7	2121.2	2173.4	2109.6	2022.7	1895.2	1843.0	1854.6	1860.4
22.5°	1605.4	1674.9	1808.2	1918.4	1970.5	1854.6	1698.1	1588.0	1564.8	1559.0	1553.2
25°	1454.7	1535.8	1634.4	1669.1	1663.3	1593.8	1477.9	1431.5	1419.9	1408.3	1356.2
27.5°	1373.6	1402.5	1419.9	1460.5	1477.9	1431.5	1402.5	1333.0	1321.4	1321.4	1286.6
30°	1327.2	1309.8	1333.0	1304.0	1327.2	1292.4	1298.2	1298.2	1269.2	1280.8	1280.8
32.5°	1234.5	1240.3	1240.3	1182.3	1199.7	1159.1	1199.7	1234.5	1240.3	1246.1	1292.4
35°	904.1	1008.4	1060.6	1060.6	1078.0	1049.0	1043.2	1002.6	950.5	898.3	875.1
37.5°	794.0	834.6	904.1	944.7	973.7	950.5	898.3	834.6	805.6	782.4	759.2
40°	707.1	741.8	788.2	834.6	892.5	863.5	782.4	753.4	718.7	718.7	695.5
42.5°	637.5	654.9	683.9	753.4	817.2	759.2	701.3	678.1	660.7	654.9	649.1
45°	573.8	579.6	608.5	666.5	741.8	683.9	625.9	597.0	602.7	608.5	602.7
47.5°	515.8	527.4	544.8	614.3	660.7	631.7	568.0	550.6	550.6	550.6	556.4
50°	446.3	475.2	510.0	568.0	602.7	585.4	533.2	510.0	498.4	498.4	504.2
52.5°	399.9	423.1	469.4	539.0	585.4	556.4	504.2	469.4	446.3	440.5	452.1
55°	347.7	388.3	463.7	515.8	579.6	550.6	492.6	452.1	411.5	405.7	405.7
57.5°	313.0	376.7	446.3	510.0	562.2	539.0	492.6	440.5	388.3	382.5	382.5
60°	295.6	365.1	434.7	492.6	562.2	527.4	486.8	428.9	370.9	370.9	365.1
62.5°	278.2	341.9	411.5	469.4	539.0	510.0	469.4	411.5	353.5	353.5	341.9
65°	231.8	295.6	341.9	394.1	469.4	440.5	399.9	359.3	313.0	301.4	307.2
67.5°	162.3	202.8	249.2	301.4	347.7	336.1	318.8	289.8	249.2	243.4	237.6
70°	81.1	110.1	150.7	202.8	243.4	231.8	220.2	197.1	173.9	168.1	168.1
72.5°	11.6	34.8	63.8	92.7	127.5	133.3	127.5	121.7	115.9	110.1	115.9
75°	0.0	0.0	0.0	23.2	52.2	63.8	75.3	86.9	86.9	75.3	92.7
77.5°	0.0	0.0	0.0	0.0	5.8	29.0	58.0	75.3	92.7	81.1	110.1
80°	0.0	0.0	0.0	0.0	5.8	34.8	58.0	81.1	92.7	81.1	115.9
82.5°	0.0	0.0	0.0	0.0	5.8	40.6	58.0	75.3	86.9	81.1	104.3
85°	0.0	0.0	0.0	0.0	17.4	34.8	23.2	11.6	5.8	5.8	17.4
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: P534007

CATALOG NUMBER: GALN-SA9C-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1	14941.1
2.5°	12941.6	13353.1	13793.6	13961.7	14483.3	14877.4	15144.0	15717.8	15804.7	15810.5
5°	10397.4	10606.0	11359.4	11713.0	12489.6	13092.3	13735.6	14662.9	15283.1	15329.4
7.5°	7389.4	7969.0	8287.8	9209.3	10165.5	11110.2	12066.5	13144.5	13863.2	13880.5
10°	5946.3	6323.0	6891.0	7580.7	8386.3	9348.4	10623.4	11875.2	12605.5	12785.2
12.5°	4787.2	5447.9	6097.0	6809.9	7424.2	8148.7	9522.2	11191.4	11794.1	12153.4
15°	3686.0	4288.8	5053.8	5888.4	6583.8	7551.7	9116.5	11023.3	12037.5	12159.2
17.5°	2718.2	3257.1	3964.2	4752.4	5795.6	7169.2	9186.1	11875.2	12831.5	13034.4
20°	1953.1	2266.1	2822.5	3738.2	5065.4	6722.9	9255.6	12738.8	14193.5	14541.2
22.5°	1547.4	1674.9	2040.1	2851.5	4248.2	6253.5	9748.3	14390.6	16065.5	16569.7
25°	1344.6	1414.1	1588.0	2248.7	3732.4	6207.1	10536.5	16372.7	18557.6	18922.7
27.5°	1298.2	1309.8	1460.5	2063.2	3454.2	5900.0	10837.8	17781.0	20110.8	20481.8
30°	1367.8	1553.2	1564.8	1744.5	2938.4	5291.4	10994.3	19143.0	21426.5	21698.8
32.5°	1182.3	1124.4	1164.9	1350.4	2584.9	4937.9	11289.9	20331.1	22927.5	23118.8
35°	823.0	863.5	956.3	1170.7	2260.3	4567.0	11365.2	21640.9	24353.2	24550.3
37.5°	759.2	782.4	857.8	996.8	1987.9	4358.3	11260.9	22597.2	25831.1	26103.5
40°	707.1	736.0	776.6	904.1	1785.1	4126.5	11116.0	23460.7	26735.2	27407.5
42.5°	666.5	689.7	724.5	863.5	1611.2	3894.7	10913.2	24677.8	27546.6	28132.0
45°	620.1	654.9	695.5	840.4	1512.7	3738.2	10762.5	24602.5	28016.1	28329.0
47.5°	573.8	631.7	678.1	782.4	1483.7	3662.8	10826.2	24318.5	27633.6	27419.1
50°	527.4	602.7	683.9	649.1	1414.1	3512.2	10901.6	24706.8	26723.7	26683.1
52.5°	486.8	573.8	637.5	533.2	1257.7	3367.3	11631.8	25216.8	27367.0	26828.0
55°	428.9	515.8	510.0	428.9	1020.0	3257.1	12205.6	25228.4	26932.3	27135.1
57.5°	388.3	457.9	399.9	359.3	753.4	2723.9	11272.5	21154.1	23055.0	23414.4
60°	359.3	446.3	301.4	284.0	492.6	1964.7	9841.0	16384.3	18325.8	19003.9
62.5°	330.4	423.1	237.6	231.8	341.9	1396.7	8090.7	13712.5	15793.1	16714.6
65°	289.8	301.4	191.3	179.7	243.4	753.4	4926.3	9441.1	11805.7	12147.6
67.5°	237.6	231.8	156.5	144.9	162.3	365.1	2173.4	4729.2	6844.6	7418.4
70°	191.3	191.3	133.3	115.9	115.9	168.1	568.0	1883.6	3094.9	3425.2
72.5°	139.1	144.9	104.3	92.7	86.9	81.1	92.7	376.7	811.4	1037.4
75°	121.7	127.5	104.3	81.1	63.8	52.2	40.6	34.8	46.4	75.3
77.5°	133.3	133.3	110.1	75.3	58.0	40.6	23.2	11.6	11.6	5.8
80°	168.1	173.9	144.9	98.5	69.5	46.4	29.0	11.6	5.8	5.8
82.5°	179.7	197.1	162.3	121.7	86.9	52.2	29.0	5.8	0.0	0.0
85°	46.4	75.3	127.5	110.1	86.9	52.2	29.0	5.8	0.0	0.0
87.5°	0.0	5.8	17.4	17.4	23.2	23.2	17.4	5.8	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)