

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: P532135

Luminaire Tested: **GALN-SA7C-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532135
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-SA7C-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22640 lumens
Efficiency: N/A
Efficacy: 60.1 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

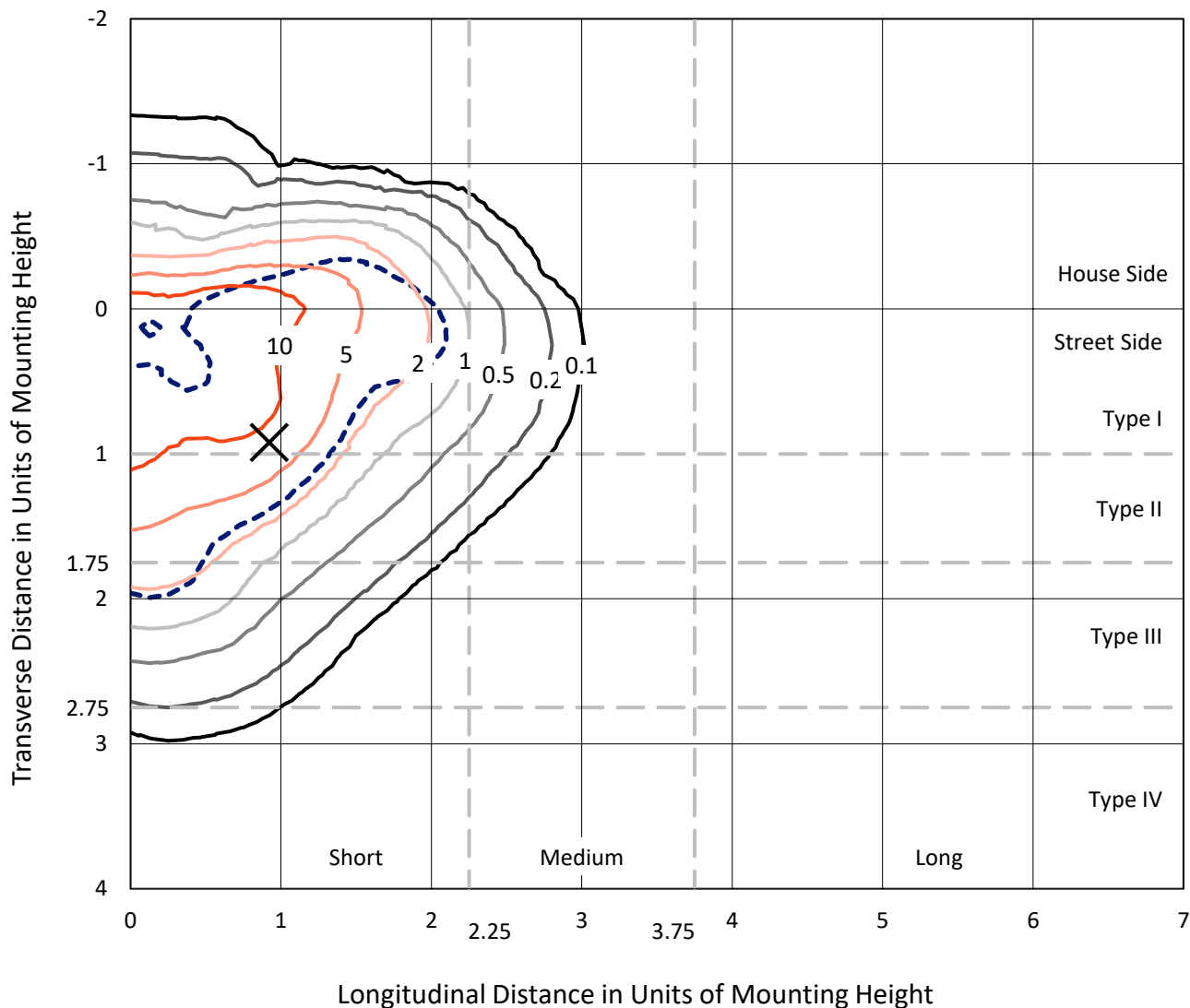
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

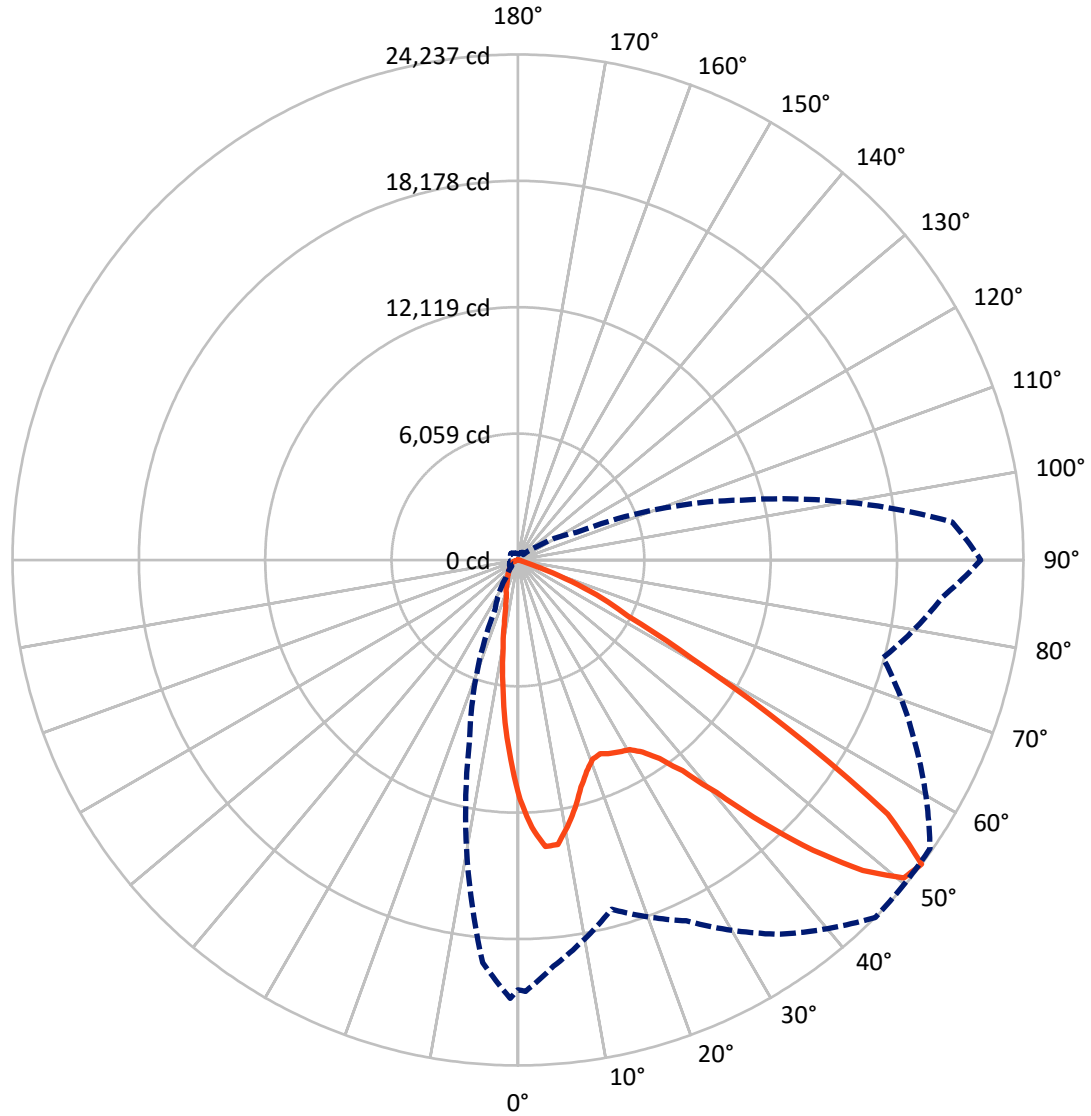
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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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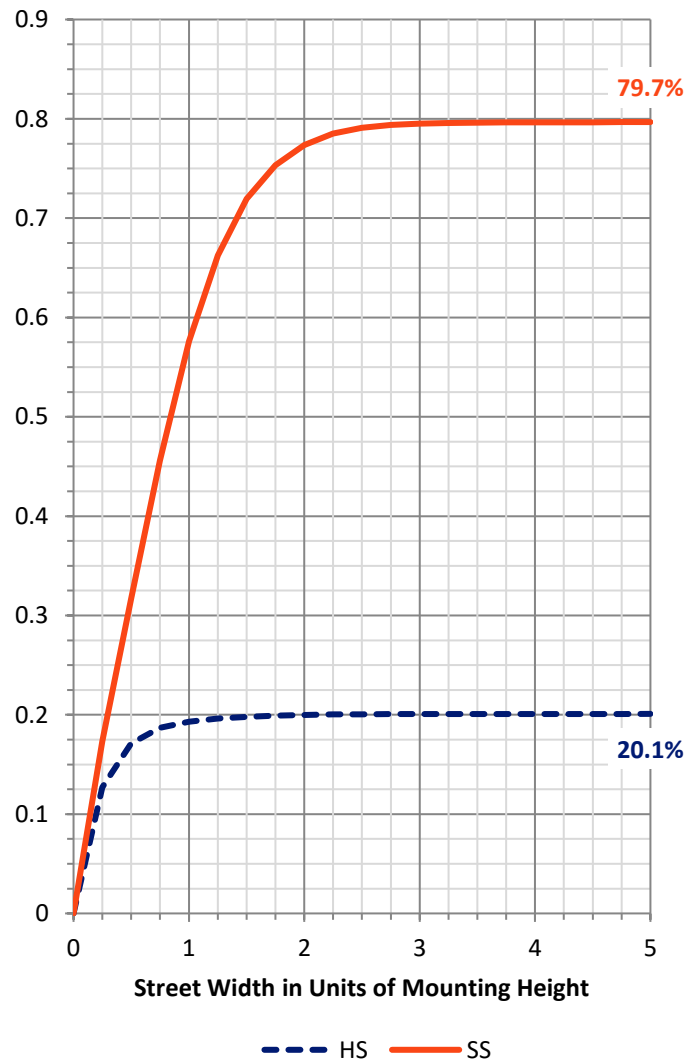
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4594.8	0.0	4594.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18045.2	0.0	18045.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	22640.0	0.0	22640.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.2	3.7
10°-20°	1651.7	7.3
20°-30°	2513.7	11.1
30°-40°	3757.0	16.6
40°-50°	5350.3	23.6
50°-60°	5751.4	25.4
60°-70°	2548.6	11.3
70°-80°	206.2	0.9
80°-90°	24.0	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°	22640.0	100.0
0°-180°	22640.0	100.0

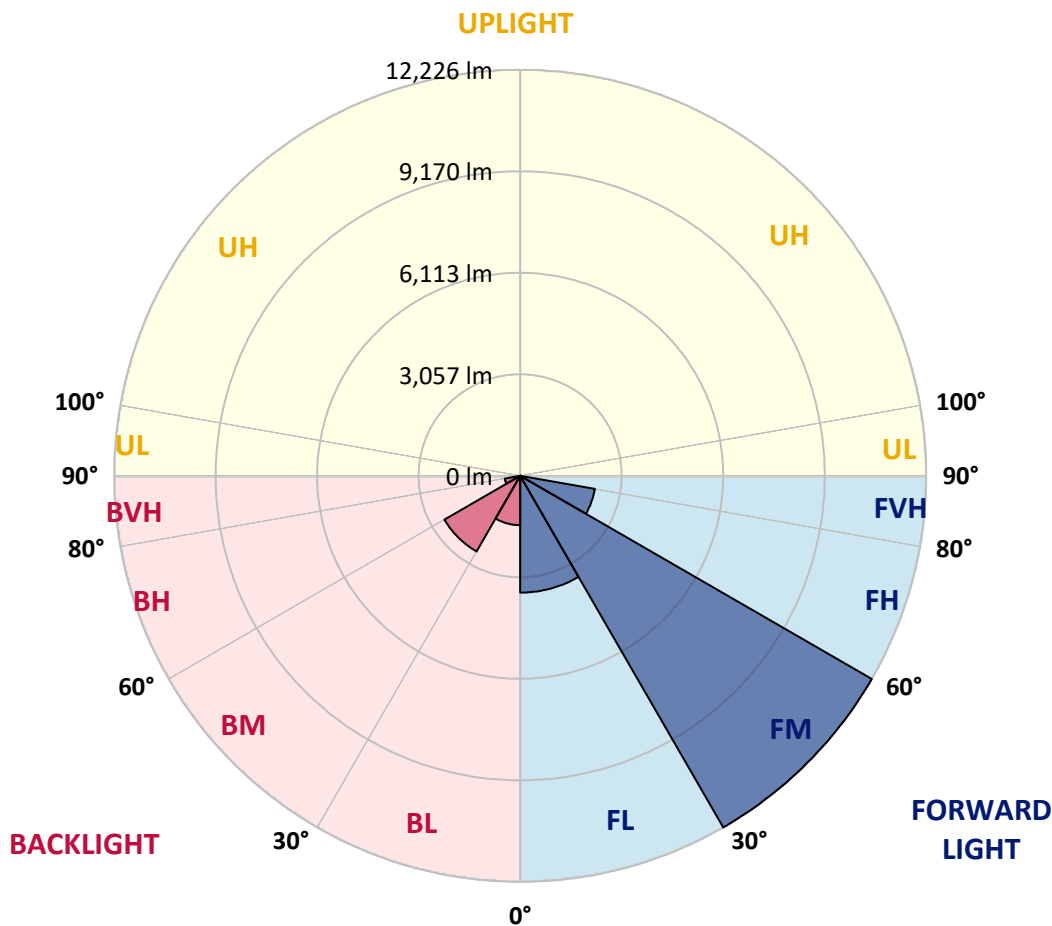


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3516.5	15.5			
FM (30°-60°)	12226.3	54.0			
FH (60°-80°)	2284.6	10.1			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1486.1	6.6	B3/2500		
BM (30°-60°)	2632.3	11.6	B3/5000		
BH (60°-80°)	470.1	2.1	B1/500		G1/500
BVH (80°-90°)	6.2	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°	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5
2.5°	12147.5	12183.1	12379.0	12623.9	12753.1	13046.9	12842.1	12895.5	12784.2	12392.4	12085.1
5°	11777.9	11773.4	12022.8	12628.4	13202.8	13786.1	13803.9	13492.2	12944.5	12343.4	11484.0
7.5°	10664.7	10838.3	11096.6	12062.9	13127.1	13563.5	13772.8	13407.6	12566.0	11706.6	10776.0
10°	9823.1	9912.1	10348.5	11515.2	12294.4	12877.7	13006.9	12797.6	12151.9	11078.8	10036.8
12.5°	9337.7	9382.2	9894.3	10873.9	11697.7	12129.7	12192.0	12290.0	11826.9	10820.5	9569.2
15°	9342.1	9377.8	10068.0	10887.3	11212.4	11096.6	11301.4	11297.0	11497.3	10771.5	9961.1
17.5°	10014.5	10054.6	10678.0	11083.2	10940.7	10669.1	10655.7	10860.6	11283.6	11381.6	10553.3
20°	11172.3	11265.8	11724.4	11702.2	10900.7	10353.0	10201.6	10357.4	11341.5	11898.1	11746.7
22.5°	12730.8	12859.9	13180.5	12566.0	11083.2	10139.2	10090.2	10393.0	11724.4	13051.4	13100.4
25°	14538.7	14756.9	14912.7	14124.5	11733.3	10508.8	10277.3	10798.2	12241.0	14302.7	14823.6
27.5°	15736.5	15963.6	15928.0	14801.4	12169.7	10606.8	10410.8	10896.2	12690.7	14601.0	15723.1
30°	16671.6	16809.6	17059.0	15166.5	12606.1	10882.8	10548.9	11310.3	12837.7	15117.5	16809.6
32.5°	17762.6	17856.1	17873.9	15812.2	13278.5	11230.2	10976.4	11826.9	13487.8	15611.8	17771.5
35°	18862.4	19000.5	18711.0	16609.3	13692.6	11875.8	11688.8	12721.9	14008.8	16123.9	18831.2
37.5°	20055.8	20127.0	19459.1	16938.8	14284.8	12926.7	12824.3	13688.2	14912.7	17050.1	20006.8
40°	21057.7	21124.5	20256.2	17344.0	14908.3	14396.2	14658.9	15531.7	16141.7	17651.2	20594.6
42.5°	21614.3	21770.1	20523.3	17121.3	16159.5	16061.5	17228.2	17535.5	17566.6	17820.4	21120.0
45°	21765.7	21694.4	20082.5	17303.9	17254.9	18800.1	19859.9	20265.1	18982.6	18132.1	21253.6
47.5°	21066.6	21160.1	19432.4	17143.6	18693.2	20875.1	22246.6	22999.1	20038.0	17860.5	20924.1
50°	20501.1	20380.8	19223.1	17027.8	19080.6	21854.7	23969.9	24139.1	21008.7	18194.5	20563.4
52.5°	20612.4	20688.1	19557.1	17335.1	19089.5	21912.6	24237.0	24121.3	21039.9	18118.8	20434.3
55°	20848.4	20514.4	19414.6	16658.2	17811.5	20296.2	21511.9	21333.8	19419.0	17312.8	20118.1
57.5°	17989.6	18506.2	17851.6	14872.6	14618.8	15291.2	15268.9	15816.6	14485.2	14899.3	18314.7
60°	14601.0	14690.1	14935.0	12721.9	10117.0	9885.4	9564.8	9217.5	9747.4	12739.7	16658.2
62.5°	12842.1	12735.2	13608.0	11573.0	7142.4	5980.2	5926.8	6140.5	7520.9	12151.9	15625.2
65°	9333.2	9466.8	10099.1	8981.5	5361.3	4564.2	4484.1	5116.4	6087.1	9738.5	11924.8
67.5°	5699.7	5958.0	6015.8	5539.4	3638.0	2889.9	2774.1	3348.6	4395.0	6300.8	6991.0
70°	2631.7	2943.4	3237.2	3023.5	2106.2	1188.9	1122.1	1407.1	2217.5	3624.6	3709.3
72.5°	797.1	801.5	1122.1	1171.1	681.3	267.2	236.0	311.7	752.5	1197.8	1260.2
75°	57.9	62.3	151.4	173.7	129.1	66.8	71.2	84.6	160.3	267.2	200.4
77.5°	4.5	4.5	4.5	22.3	40.1	44.5	57.9	66.8	84.6	98.0	89.1
80°	4.5	0.0	4.5	17.8	31.2	44.5	53.4	62.3	66.8	75.7	66.8
82.5°	0.0	0.0	0.0	13.4	31.2	44.5	49.0	66.8	75.7	89.1	75.7
85°	0.0	0.0	0.0	13.4	31.2	49.0	44.5	22.3	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°	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5
2.5°	12138.6	11964.9	11568.6	11368.2	10896.2	10829.4	10366.3	10290.6	10134.8	10050.2	9845.3
5°	11105.5	10896.2	10250.5	9707.3	9075.0	8634.1	8295.7	7988.5	7810.4	7645.6	7721.3
7.5°	10263.9	9653.9	8936.9	8028.5	7298.3	6826.3	6309.7	5886.7	5637.3	5468.1	5508.2
10°	9382.2	8985.9	7988.5	6968.8	6087.1	5753.1	5347.9	5022.9	4671.1	4368.3	4225.8
12.5°	9106.1	8518.4	7267.1	6229.6	5561.7	5236.6	4773.5	4399.4	3949.7	3580.1	3451.0
15°	9155.1	8589.6	7071.2	5962.4	5174.3	4613.2	4061.0	3597.9	3103.7	2845.4	2711.8
17.5°	9952.2	8972.6	7200.3	5681.9	4635.5	3856.2	3174.9	2587.1	2217.5	1950.4	1892.5
20°	10931.8	9800.8	7476.4	5477.0	4194.6	3068.0	2320.0	1812.3	1505.1	1460.5	1447.2
22.5°	12365.7	11154.5	8068.6	5339.0	3655.8	2391.2	1589.7	1318.1	1233.4	1224.5	1229.0
25°	14369.5	12851.0	8714.3	5223.2	3250.6	1843.5	1300.2	1117.7	1091.0	1077.6	1099.9
27.5°	15237.8	13875.2	9057.2	4973.9	2881.0	1660.9	1282.4	1108.8	1033.1	1010.8	1024.2
30°	16310.9	14556.5	9596.0	4546.4	2337.8	1367.0	1197.8	1206.7	1171.1	1059.8	1024.2
32.5°	17735.8	15407.0	9867.6	4243.6	2088.4	1131.0	877.2	806.0	899.5	917.3	948.5
35°	18648.7	16270.8	10005.6	4065.5	1959.3	966.3	743.6	676.8	654.6	659.0	676.8
37.5°	20345.2	17437.5	10179.3	3878.5	1861.3	841.6	672.4	610.0	578.9	578.9	596.7
40°	21360.5	18363.7	10415.3	3776.0	1763.3	765.9	610.0	556.6	529.9	529.9	538.8
42.5°	21614.3	18822.3	10335.1	3740.4	1652.0	748.1	556.6	516.5	485.4	480.9	476.5
45°	22068.5	19521.4	10348.5	3700.3	1536.2	681.3	525.4	480.9	436.4	431.9	427.5
47.5°	22567.2	20024.6	10375.2	3544.5	1424.9	570.0	547.7	445.3	391.9	382.9	382.9
50°	22139.7	20425.4	10606.8	3388.6	1282.4	463.1	538.8	418.6	347.3	334.0	338.4
52.5°	22193.2	20897.4	11096.6	3170.5	1104.3	369.6	436.4	396.3	316.2	293.9	298.3
55°	21338.2	20398.7	11163.4	2938.9	863.9	285.0	334.0	347.3	267.2	258.3	258.3
57.5°	18368.1	17272.7	9849.8	2382.3	570.0	236.0	240.5	302.8	231.5	222.6	227.1
60°	15718.7	13866.3	7926.1	1571.9	356.2	187.0	173.7	307.2	204.8	200.4	213.7
62.5°	14329.4	11394.9	6011.4	975.2	244.9	142.5	120.2	249.4	178.1	178.1	195.9
65°	10353.0	7654.5	3495.5	512.1	173.7	111.3	89.1	142.5	146.9	151.4	160.3
67.5°	6412.2	3865.1	1473.9	249.4	115.8	75.7	57.9	89.1	98.0	98.0	106.9
70°	3166.0	1540.7	489.8	142.5	89.1	62.3	40.1	49.0	49.0	44.5	49.0
72.5°	979.6	463.1	124.7	89.1	62.3	40.1	22.3	17.8	8.9	0.0	4.5
75°	111.3	89.1	80.2	62.3	40.1	17.8	4.5	0.0	0.0	0.0	0.0
77.5°	66.8	75.7	75.7	62.3	40.1	13.4	0.0	0.0	0.0	0.0	0.0
80°	53.4	57.9	62.3	57.9	35.6	17.8	0.0	0.0	0.0	0.0	0.0
82.5°	66.8	75.7	84.6	75.7	49.0	22.3	8.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.4	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°	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5
2.5°	9760.7	9662.8	9800.8	9596.0	9591.5	9596.0	9538.1	9484.6	9569.2	9796.3	9818.6
5°	7449.7	7659.0	7725.8	7943.9	7823.7	7645.6	7681.2	7561.0	7854.9	7984.0	7881.6
7.5°	5423.6	5410.3	5860.0	5886.7	5944.6	5949.1	5940.1	5704.1	5463.7	5517.1	5677.4
10°	4208.0	3980.9	4199.1	4176.8	4319.3	4279.2	4337.1	4083.3	4167.9	4167.9	4270.3
12.5°	3428.7	3188.3	3148.2	3090.3	3148.2	3170.5	3192.7	3143.7	3286.2	3353.0	3424.3
15°	2618.3	2484.7	2449.1	2337.8	2355.6	2417.9	2471.4	2493.6	2449.1	2551.5	2560.4
17.5°	1901.4	1896.9	1919.2	1914.7	1896.9	1883.6	1879.1	1821.2	1803.4	1812.3	1847.9
20°	1442.7	1478.4	1554.1	1629.8	1669.8	1620.8	1554.1	1456.1	1416.0	1424.9	1429.4
22.5°	1233.4	1286.9	1389.3	1473.9	1514.0	1424.9	1304.7	1220.1	1202.3	1197.8	1193.4
25°	1117.7	1180.0	1255.7	1282.4	1278.0	1224.5	1135.5	1099.9	1091.0	1082.1	1042.0
27.5°	1055.3	1077.6	1091.0	1122.1	1135.5	1099.9	1077.6	1024.2	1015.3	1015.3	988.5
30°	1019.7	1006.4	1024.2	1001.9	1019.7	993.0	997.4	997.4	975.2	984.1	984.1
32.5°	948.5	952.9	952.9	908.4	921.7	890.6	921.7	948.5	952.9	957.4	993.0
35°	694.6	774.8	814.9	814.9	828.2	806.0	801.5	770.3	730.3	690.2	672.4
37.5°	610.0	641.2	694.6	725.8	748.1	730.3	690.2	641.2	619.0	601.1	583.3
40°	543.3	570.0	605.6	641.2	685.7	663.5	601.1	578.9	552.2	552.2	534.3
42.5°	489.8	503.2	525.4	578.9	627.9	583.3	538.8	521.0	507.6	503.2	498.7
45°	440.8	445.3	467.6	512.1	570.0	525.4	480.9	458.6	463.1	467.6	463.1
47.5°	396.3	405.2	418.6	472.0	507.6	485.4	436.4	423.0	423.0	423.0	427.5
50°	342.9	365.1	391.9	436.4	463.1	449.7	409.7	391.9	382.9	382.9	387.4
52.5°	307.2	325.1	360.7	414.1	449.7	427.5	387.4	360.7	342.9	338.4	347.3
55°	267.2	298.3	356.2	396.3	445.3	423.0	378.5	347.3	316.2	311.7	311.7
57.5°	240.5	289.4	342.9	391.9	431.9	414.1	378.5	338.4	298.3	293.9	293.9
60°	227.1	280.5	334.0	378.5	431.9	405.2	374.0	329.5	285.0	285.0	280.5
62.5°	213.7	262.7	316.2	360.7	414.1	391.9	360.7	316.2	271.6	271.6	262.7
65°	178.1	227.1	262.7	302.8	360.7	338.4	307.2	276.1	240.5	231.5	236.0
67.5°	124.7	155.9	191.5	231.5	267.2	258.3	244.9	222.6	191.5	187.0	182.6
70°	62.3	84.6	115.8	155.9	187.0	178.1	169.2	151.4	133.6	129.1	129.1
72.5°	8.9	26.7	49.0	71.2	98.0	102.4	98.0	93.5	89.1	84.6	89.1
75°	0.0	0.0	0.0	17.8	40.1	49.0	57.9	66.8	66.8	57.9	71.2
77.5°	0.0	0.0	0.0	0.0	4.5	22.3	44.5	57.9	71.2	62.3	84.6
80°	0.0	0.0	0.0	0.0	4.5	26.7	44.5	62.3	71.2	62.3	89.1
82.5°	0.0	0.0	0.0	0.0	4.5	31.2	44.5	57.9	66.8	62.3	80.2
85°	0.0	0.0	0.0	0.0	13.4	26.7	17.8	8.9	4.5	4.5	13.4
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: P532135

CATALOG NUMBER: GALN-SA7C-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5	11479.5
2.5°	9943.3	10259.4	10597.9	10727.0	11127.8	11430.6	11635.4	12076.2	12143.0	12147.5
5°	7988.5	8148.8	8727.7	8999.3	9596.0	10059.1	10553.3	11265.8	11742.3	11777.9
7.5°	5677.4	6122.7	6367.6	7075.6	7810.4	8536.2	9270.9	10099.1	10651.3	10664.7
10°	4568.7	4858.1	5294.5	5824.4	6443.3	7182.5	8162.1	9124.0	9685.0	9823.1
12.5°	3678.1	4185.7	4684.4	5232.1	5704.1	6260.8	7316.1	8598.5	9061.6	9337.7
15°	2832.0	3295.1	3882.9	4524.1	5058.5	5802.1	7004.4	8469.4	9248.6	9342.1
17.5°	2088.4	2502.5	3045.8	3651.4	4452.9	5508.2	7057.8	9124.0	9858.7	10014.5
20°	1500.6	1741.1	2168.6	2872.1	3891.8	5165.3	7111.3	9787.4	10905.1	11172.3
22.5°	1188.9	1286.9	1567.4	2190.8	3264.0	4804.7	7489.7	11056.5	12343.4	12730.8
25°	1033.1	1086.5	1220.1	1727.7	2867.7	4769.0	8095.3	12579.4	14258.1	14538.7
27.5°	997.4	1006.4	1122.1	1585.2	2653.9	4533.0	8326.9	13661.4	15451.5	15736.5
30°	1050.9	1193.4	1202.3	1340.3	2257.6	4065.5	8447.1	14707.9	16462.3	16671.6
32.5°	908.4	863.9	895.0	1037.5	1986.0	3793.9	8674.2	15620.7	17615.6	17762.6
35°	632.3	663.5	734.7	899.5	1736.6	3508.9	8732.1	16627.1	18711.0	18862.4
37.5°	583.3	601.1	659.0	765.9	1527.3	3348.6	8652.0	17361.8	19846.5	20055.8
40°	543.3	565.5	596.7	694.6	1371.5	3170.5	8540.6	18025.3	20541.1	21057.7
42.5°	512.1	529.9	556.6	663.5	1237.9	2992.3	8384.8	18960.4	21164.6	21614.3
45°	476.5	503.2	534.3	645.7	1162.2	2872.1	8269.0	18902.5	21525.2	21765.7
47.5°	440.8	485.4	521.0	601.1	1139.9	2814.2	8318.0	18684.3	21231.3	21066.6
50°	405.2	463.1	525.4	498.7	1086.5	2698.4	8375.9	18982.6	20532.2	20501.1
52.5°	374.0	440.8	489.8	409.7	966.3	2587.1	8936.9	19374.5	21026.5	20612.4
55°	329.5	396.3	391.9	329.5	783.7	2502.5	9377.8	19383.4	20692.5	20848.4
57.5°	298.3	351.8	307.2	276.1	578.9	2092.9	8660.9	16253.0	17713.6	17989.6
60°	276.1	342.9	231.5	218.2	378.5	1509.5	7561.0	12588.3	14080.0	14601.0
62.5°	253.8	325.1	182.6	178.1	262.7	1073.1	6216.2	10535.5	12134.1	12842.1
65°	222.6	231.5	146.9	138.0	187.0	578.9	3785.0	7253.7	9070.5	9333.2
67.5°	182.6	178.1	120.2	111.3	124.7	280.5	1669.8	3633.6	5258.9	5699.7
70°	146.9	146.9	102.4	89.1	89.1	129.1	436.4	1447.2	2377.8	2631.7
72.5°	106.9	111.3	80.2	71.2	66.8	62.3	71.2	289.4	623.4	797.1
75°	93.5	98.0	80.2	62.3	49.0	40.1	31.2	26.7	35.6	57.9
77.5°	102.4	102.4	84.6	57.9	44.5	31.2	17.8	8.9	8.9	4.5
80°	129.1	133.6	111.3	75.7	53.4	35.6	22.3	8.9	4.5	4.5
82.5°	138.0	151.4	124.7	93.5	66.8	40.1	22.3	4.5	0.0	0.0
85°	35.6	57.9	98.0	84.6	66.8	40.1	22.3	4.5	0.0	0.0
87.5°	0.0	4.5	13.4	13.4	17.8	17.8	13.4	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)