

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: P532370

Luminaire Tested: **GALN-SA7D-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33561 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

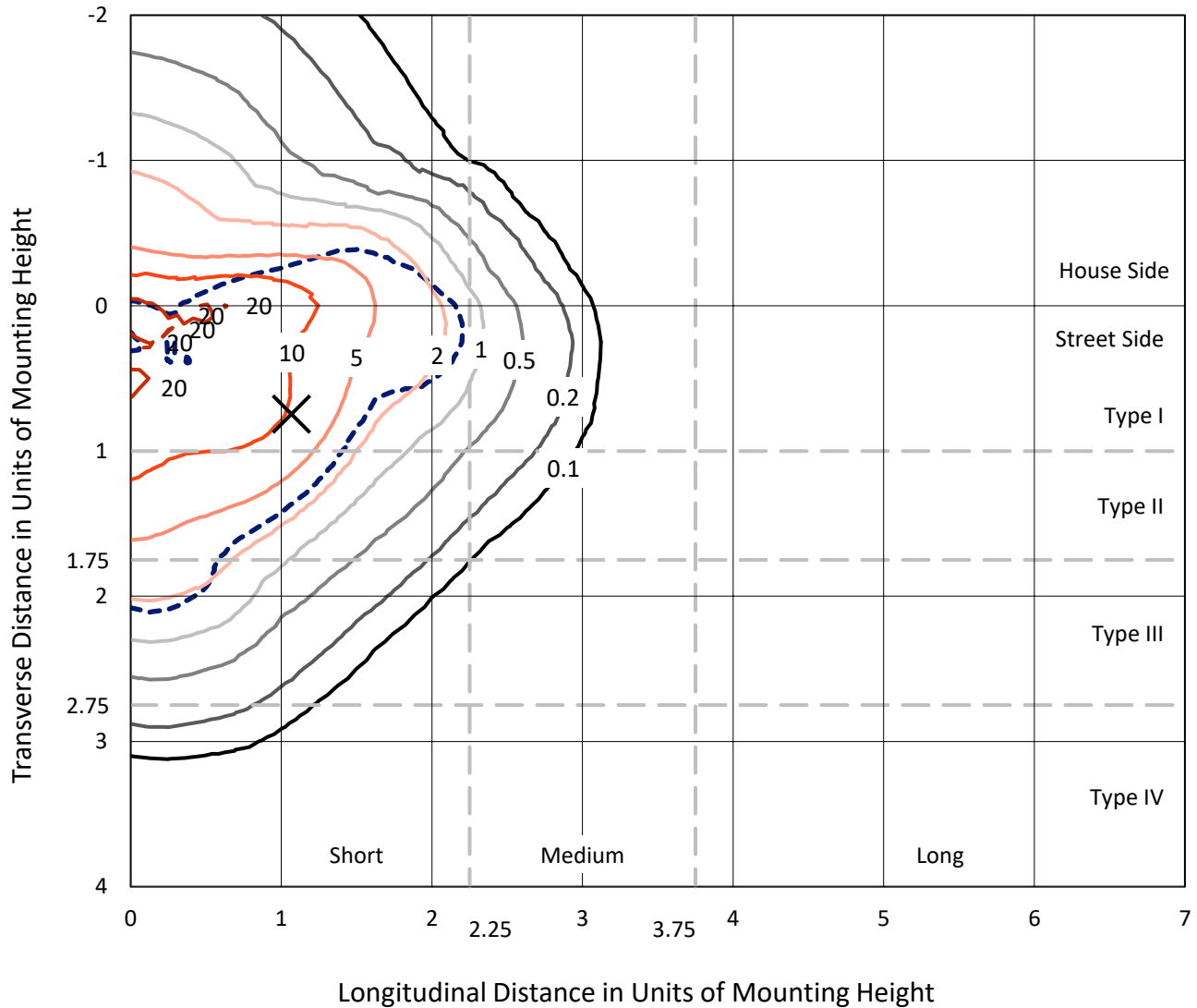
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

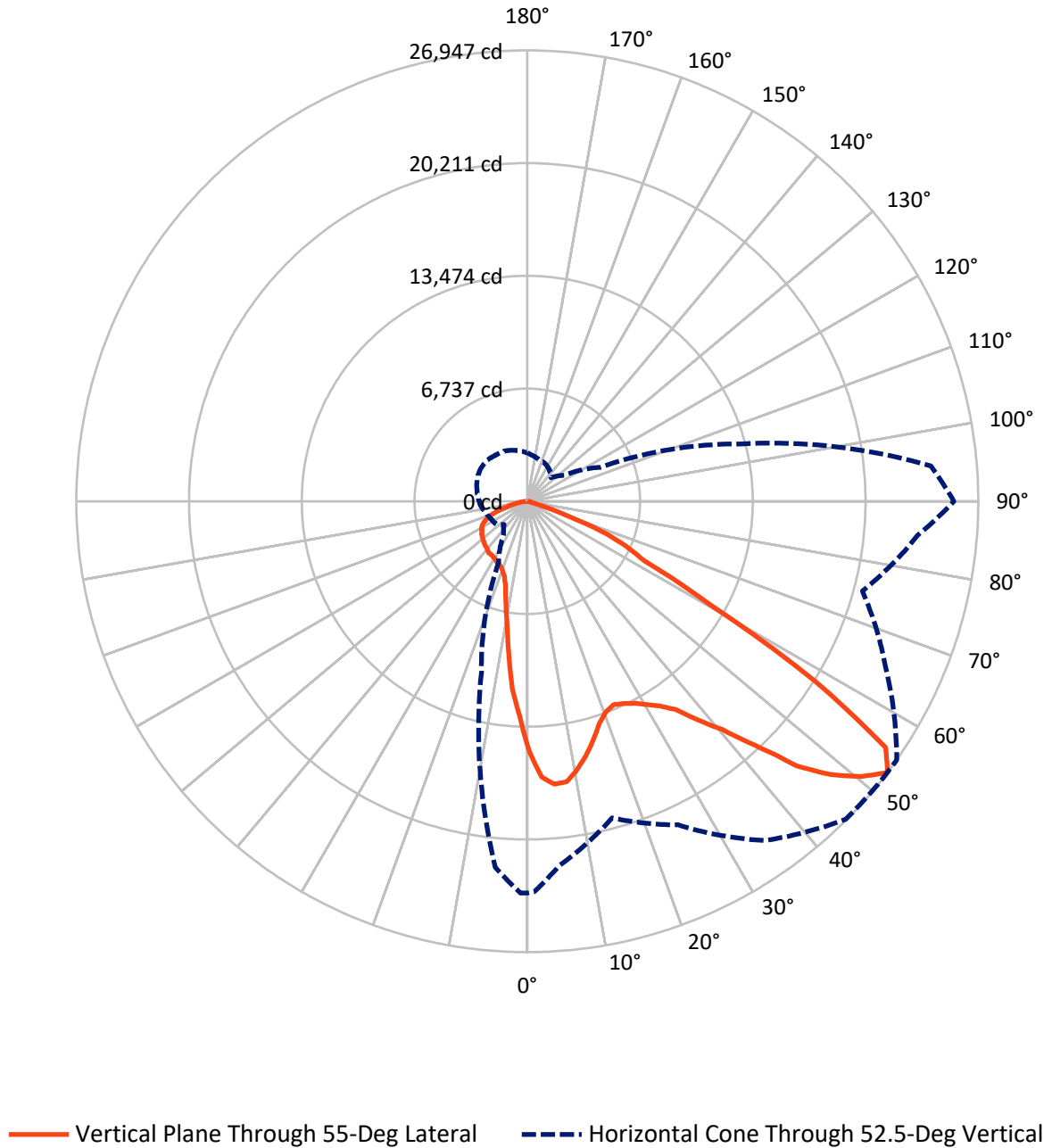
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10237.9	0.0	10237.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	23323.1	0.0	23323.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	33561.0	0.0	33561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1143.7	3.4
10°-20°	2466.1	7.3
20°-30°	3739.3	11.1
30°-40°	5402.8	16.1
40°-50°	7219.6	21.5
50°-60°	8058.7	24.0
60°-70°	4420.5	13.2
70°-80°	955.7	2.8
80°-90°	154.6	0.5
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°	33561.0	100.0
0°-180°	33561.0	100.0

Coefficient of Utilization



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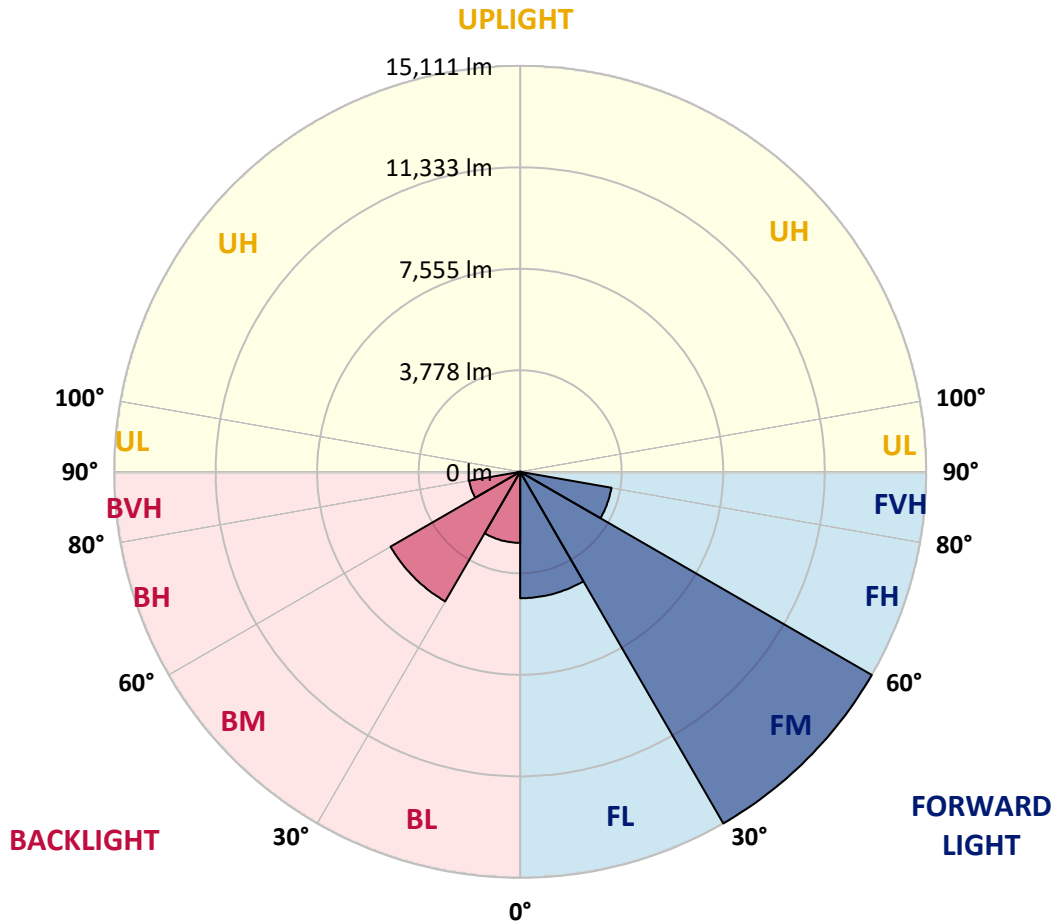
CATALOG NUMBER: GALN-SA7D-727-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4705.9	14.0			
FM (30°-60°)	15110.7	45.0			
FH (60°-80°)	3449.2	10.3			G2/5000
FVH (80°-90°)	57.2	0.2			G1/100
BL (0°-30°)	2643.3	7.9	B4/5000		
BM (30°-60°)	5570.3	16.6	B4/8500		
BH (60°-80°)	1927.0	5.7	B3/2500		G3/2500
BVH (80°-90°)	97.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8
2.5°	15710.8	15622.6	15701.0	16073.4	16289.0	16436.0	16529.1	16514.4	16161.6	15818.6	15818.6
5°	15250.1	15137.4	15299.1	16142.0	16989.8	17063.3	17185.8	16984.9	16465.4	15838.2	15054.1
7.5°	13917.2	14000.5	14270.0	15377.5	16480.1	17033.9	17180.9	16926.1	16083.2	14912.0	13760.4
10°	12765.6	12961.6	13584.0	14779.7	15794.1	16514.4	16676.2	16318.4	15652.0	14216.1	13187.0
12.5°	12368.7	12246.2	12937.1	14132.8	15103.1	15490.2	15563.8	15588.3	15137.4	13863.3	12608.8
15°	12319.7	12398.1	12937.1	13843.7	14441.6	14461.2	14583.7	14774.8	14833.6	14103.4	12878.3
17.5°	13025.3	12932.2	13486.0	14206.3	13922.1	13637.9	13667.3	13941.7	14426.9	14309.2	13726.1
20°	14069.1	14279.8	14716.0	14642.5	13878.0	13157.6	13162.5	13422.3	14377.9	15161.9	14907.1
22.5°	15803.9	16009.7	16333.1	15446.1	13878.0	13015.5	12848.9	13201.7	14691.5	16176.3	16240.0
25°	17386.7	17764.0	17852.3	16808.5	14573.9	13147.8	13040.0	13388.0	15005.1	17166.2	17768.9
27.5°	18827.4	18964.6	19351.8	17685.6	14961.0	13236.1	13226.3	13672.2	15402.0	17661.1	19136.2
30°	19964.3	19949.6	20170.2	18239.4	15578.5	13731.0	13255.7	14098.5	15921.5	18479.5	20400.5
32.5°	20738.6	20905.2	21370.8	19008.8	15838.2	14201.4	13829.0	14598.4	16553.6	18866.6	21292.4
35°	22100.9	22390.0	21802.0	19435.1	16661.4	14667.0	14230.8	15279.5	16867.3	19288.1	22385.1
37.5°	23384.8	23164.3	22566.5	19665.4	17195.6	15529.5	15122.7	16597.7	17842.5	20204.5	23110.4
40°	24208.1	24203.2	23139.8	19851.6	17572.9	16847.7	16823.2	17935.6	19038.2	20782.7	23923.9
42.5°	24565.8	24908.9	23375.0	19832.0	18366.8	18445.2	18940.1	19934.9	19885.9	20900.3	23904.3
44°	25055.9	25261.7	23781.8	19876.1	18896.0	19523.3	20689.6	21321.8	20625.9	20836.6	23879.8
45°	25036.3	25051.0	23203.5	19934.9	19346.9	20425.0	21468.8	22537.1	21277.7	20699.4	24203.2
47.5°	24462.9	24296.3	22713.5	19498.8	20753.3	22806.6	23772.0	24418.8	22081.3	20405.4	23801.4
50°	23330.9	23139.8	21522.7	19312.6	21047.3	24286.5	25619.4	25854.6	22811.5	20116.2	23404.4
52.5°	23409.3	23355.4	21860.8	19591.9	21341.4	24752.1	26888.6	26947.4	23639.7	20723.9	23409.3
55°	24810.9	24624.6	22831.1	19939.8	21125.7	24208.1	26080.1	25977.2	23360.3	20356.4	23840.6
57.5°	22703.7	22826.2	21488.4	18562.8	18489.3	19680.1	20503.4	20248.6	19493.9	18371.7	22179.3
60°	18317.8	18665.7	18793.1	15524.6	13951.5	13339.0	13093.9	12643.1	12770.5	15093.3	19484.1
62.5°	15710.8	15691.2	16489.9	14074.0	9139.3	7860.3	7742.7	7845.6	9315.7	14858.1	19082.3
65°	12456.9	12790.1	13035.1	11927.6	7233.0	5836.4	5831.5	6483.3	8061.2	12417.7	15406.9
67.5°	7909.3	8345.4	8649.3	7630.0	4836.7	4155.6	4042.9	4826.9	5586.5	8144.5	9276.5
70°	4459.4	4665.2	4802.4	4400.6	3077.5	2156.2	2028.8	2215.0	3376.4	5272.9	5498.3
72.5°	1720.0	1813.2	1999.4	2014.1	1161.4	695.9	563.5	676.3	1421.1	2087.6	1989.6
75°	264.6	284.2	401.8	480.2	333.2	254.8	269.5	279.3	396.9	539.0	450.8
77.5°	127.4	127.4	122.5	142.1	166.6	181.3	196.0	215.6	235.2	259.7	249.9
80°	83.3	83.3	83.3	98.0	122.5	147.0	166.6	176.4	186.2	205.8	196.0
82.5°	53.9	53.9	53.9	73.5	98.0	122.5	132.3	156.8	176.4	205.8	191.1
85°	29.4	29.4	29.4	49.0	73.5	102.9	98.0	78.4	44.1	4.9	9.8
87.5°	9.8	9.8	9.8	9.8	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°	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8
2.5°	15406.9	15181.5	15161.9	14701.3	14289.6	14088.7	13927.0	13476.2	13574.2	13314.5	13309.6
5°	14662.1	14201.4	13456.6	12844.0	12231.5	12109.0	11574.8	11109.3	11124.0	10790.7	10849.5
7.5°	13324.3	13005.7	12099.2	11138.7	10325.2	9746.9	9242.2	8938.4	8551.2	8418.9	8350.3
10°	12476.5	12084.5	11065.2	9859.7	8948.2	8639.5	8154.3	7884.8	7487.9	7291.8	7154.6
12.5°	12104.1	11530.7	10256.6	9031.5	8423.8	8105.3	7693.7	7203.6	6733.2	6551.9	6301.9
15°	12143.3	11457.2	10021.4	8698.3	7968.1	7350.6	6983.1	6439.2	5958.9	5640.4	5459.1
17.5°	12736.2	11903.1	10129.2	8443.4	7394.7	6620.5	5900.1	5312.1	4929.8	4689.7	4630.9
20°	14137.7	13005.7	10310.5	8031.8	6821.4	5856.0	4969.0	4356.5	4062.5	4057.6	4062.5
22.5°	15304.0	14181.8	10678.0	7786.8	6248.0	4875.9	3993.8	3797.8	3739.0	3861.5	3876.2
25°	16877.1	15504.9	11310.2	7659.4	5718.8	4155.6	3611.6	3538.1	3533.2	3690.0	3694.9
27.5°	18489.3	16661.4	11687.5	7286.9	5179.8	3783.1	3381.3	3366.6	3445.0	3611.6	3596.9
30°	19587.0	17631.7	12368.7	6841.0	4542.7	3454.8	3288.2	3307.8	3415.6	3543.0	3562.6
32.5°	20866.0	18587.3	12545.1	6596.0	4150.7	3180.4	3062.8	3106.9	3244.1	3445.0	3552.8
35°	22331.2	19263.6	12814.6	6262.7	4003.6	2969.7	2910.9	2959.9	3126.5	3258.8	3376.4
37.5°	23414.2	20459.3	12863.6	6003.0	3841.9	2852.0	2758.9	2920.7	3018.7	3204.9	3263.7
40°	24217.9	21326.7	12991.0	5841.3	3714.5	2700.1	2700.1	2807.9	2940.3	3111.8	3229.4
42.5°	24732.5	21958.8	13084.1	5694.3	3469.5	2656.0	2631.5	2739.3	2915.8	3082.4	3136.3
44°	25046.1	22228.3	12991.0	5557.1	3400.9	2602.1	2602.1	2695.2	2832.4	3028.5	3092.2
45°	25124.5	22566.5	12785.2	5552.2	3317.6	2538.4	2528.6	2705.0	2798.1	3038.3	3077.5
47.5°	25428.3	22983.0	12809.7	5395.4	3116.7	2386.5	2558.0	2636.4	2719.7	2930.5	3062.8
50°	25418.5	23242.7	12755.8	5165.0	2969.7	2215.0	2499.2	2587.4	2670.7	2886.4	2940.3
52.5°	25487.1	24213.0	13250.8	4797.5	2705.0	1994.5	2303.2	2499.2	2602.1	2783.4	2896.2
55°	25452.8	24766.8	13740.8	4523.1	2332.6	1862.2	2136.6	2366.9	2513.9	2705.0	2758.9
57.5°	23247.6	21890.2	12716.6	4008.5	1930.8	1705.3	1901.4	2229.7	2415.9	2611.9	2680.5
60°	18994.1	16872.2	10486.9	2950.1	1587.7	1568.1	1769.1	2185.6	2264.0	2435.5	2553.1
62.5°	17553.3	14799.3	8316.0	2254.2	1357.4	1435.8	1631.8	1974.9	2097.4	2308.1	2415.9
65°	13735.9	9830.3	5150.3	1524.0	1195.7	1288.8	1475.0	1729.9	1930.8	2126.8	2254.2
67.5°	8134.7	5370.9	2548.2	1068.3	1043.8	1141.8	1332.9	1524.0	1754.4	1970.0	2033.7
70°	4430.0	2641.3	1087.9	813.5	887.0	975.2	1161.4	1293.7	1514.2	1680.8	1788.7
72.5°	1421.1	803.7	543.9	602.8	676.3	779.2	891.9	1053.6	1210.4	1308.4	1396.6
75°	343.0	338.1	387.1	421.4	490.0	568.4	661.6	744.9	867.4	960.5	1038.9
77.5°	240.1	259.7	298.9	347.9	372.4	401.8	460.6	524.3	578.3	646.9	695.9
80°	186.2	200.9	230.3	254.8	279.3	303.8	333.2	357.7	392.0	436.1	460.6
82.5°	176.4	186.2	215.6	230.3	220.5	215.6	235.2	245.0	249.9	264.6	279.3
85°	14.7	0.0	9.8	34.3	83.3	122.5	132.3	132.3	127.4	137.2	137.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	19.6	14.7
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°	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8
2.5°	13250.8	13084.1	13147.8	13226.3	13113.5	12853.8	12922.4	12893.0	13157.6	13138.0	13402.7
5°	11109.3	10849.5	10878.9	11261.2	11138.7	11271.0	11006.4	10972.1	11021.1	11045.6	11089.7
7.5°	8502.2	8467.9	8762.0	9085.4	9237.3	9080.5	8820.8	8762.0	8708.1	8600.2	8845.3
10°	6939.0	6948.8	6929.2	7174.2	7345.7	7311.4	7154.6	7135.0	7032.1	6992.9	7130.1
12.5°	6194.1	6061.8	5998.1	5919.7	6052.0	6140.2	6071.6	6022.6	6027.5	6076.5	6096.1
15°	5473.8	5390.5	5253.3	5165.0	5228.8	5184.7	5160.1	5258.2	5233.7	5223.9	5341.5
17.5°	4665.2	4733.8	4724.0	4626.0	4709.3	4675.0	4670.1	4601.5	4508.4	4439.8	4479.0
20°	4131.1	4258.5	4356.5	4361.4	4405.5	4400.6	4327.1	4116.4	4047.8	4033.1	4042.9
22.5°	3939.9	4008.5	4126.2	4292.8	4292.8	4214.4	4126.2	3881.1	3817.4	3748.8	3719.4
25°	3788.0	3920.3	4072.3	4091.9	4170.3	4096.8	3954.6	3832.1	3699.8	3606.7	3606.7
27.5°	3709.6	3856.6	3969.3	4003.6	4111.5	4052.7	3905.6	3748.8	3592.0	3587.1	3503.8
30°	3675.3	3812.5	3886.0	3969.3	4018.3	3925.2	3881.1	3714.5	3557.7	3518.5	3381.3
32.5°	3572.4	3768.4	3905.6	3886.0	3925.2	3886.0	3822.3	3685.1	3508.7	3420.5	3405.8
35°	3454.8	3650.8	3797.8	3900.7	3925.2	3841.9	3802.7	3616.5	3376.4	3332.3	3180.4
37.5°	3391.1	3508.7	3690.0	3856.6	3890.9	3846.8	3714.5	3523.4	3283.3	3234.3	3102.0
40°	3312.7	3464.6	3606.7	3743.9	3846.8	3739.0	3587.1	3400.9	3293.1	3146.1	3106.9
42.5°	3253.9	3425.4	3543.0	3694.9	3812.5	3670.4	3494.0	3366.6	3214.7	3116.7	3004.0
44°	3234.3	3391.1	3469.5	3655.7	3753.7	3645.9	3498.9	3366.6	3190.2	3102.0	3004.0
45°	3165.7	3381.3	3464.6	3631.2	3714.5	3626.3	3440.1	3307.8	3180.4	3072.6	2969.7
47.5°	3097.1	3244.1	3386.2	3518.5	3577.3	3547.9	3391.1	3229.4	3077.5	3013.8	2915.8
50°	3077.5	3224.5	3356.8	3479.3	3547.9	3489.1	3347.0	3190.2	3013.8	2910.9	2827.5
52.5°	2979.5	3160.8	3307.8	3347.0	3435.2	3400.9	3293.1	3121.6	2955.0	2866.7	2798.1
55°	2837.3	3028.5	3229.4	3278.4	3405.8	3351.9	3190.2	3028.5	2886.4	2754.0	2665.8
57.5°	2783.4	2969.7	3165.7	3229.4	3307.8	3219.6	3180.4	3008.9	2783.4	2714.8	2577.6
60°	2646.2	2881.5	3043.2	3190.2	3195.1	3170.6	3102.0	2906.0	2719.7	2592.3	2494.3
62.5°	2538.4	2758.9	2886.4	3023.6	3106.9	3038.3	2969.7	2788.3	2587.4	2445.3	2332.6
65°	2381.6	2582.5	2690.3	2773.6	2866.7	2856.9	2739.3	2607.0	2396.3	2283.6	2175.8
67.5°	2141.5	2317.9	2464.9	2543.3	2602.1	2587.4	2499.2	2406.1	2190.5	2077.8	1999.4
70°	1852.4	2033.7	2126.8	2170.9	2229.7	2259.1	2190.5	2146.4	1955.3	1808.3	1734.8
72.5°	1489.7	1607.3	1744.6	1783.8	1808.3	1827.9	1827.9	1788.7	1592.6	1533.8	1406.4
75°	1097.7	1190.8	1293.7	1293.7	1337.8	1342.7	1352.5	1328.0	1181.0	1102.6	1073.2
77.5°	744.9	813.5	896.8	931.1	960.5	955.6	950.7	882.1	803.7	769.4	740.0
80°	485.1	553.7	593.0	637.1	666.5	661.6	671.4	622.4	588.1	529.2	539.0
82.5°	289.1	343.0	382.2	436.1	436.1	450.8	450.8	436.1	401.8	372.4	372.4
85°	137.2	181.3	205.8	240.1	259.7	264.6	235.2	200.9	166.6	151.9	166.6
87.5°	24.5	34.3	49.0	44.1	53.9	49.0	49.0	49.0	49.0	39.2	44.1
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: P532370

CATALOG NUMBER: GALN-SA7D-727-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8	14970.8
2.5°	13304.7	13549.7	13721.2	14005.4	14495.5	14887.5	15289.3	15588.3	15622.6	15710.8
5°	11251.4	11383.7	11819.8	12388.3	12790.1	13451.7	13878.0	14652.3	14941.4	15250.1
7.5°	8786.5	9002.1	9585.2	9967.5	10849.5	11677.7	12535.3	13490.9	13873.1	13917.2
10°	7409.4	7723.1	8120.0	8732.6	9212.8	10134.1	11202.4	12265.8	12692.1	12765.6
12.5°	6507.8	6909.6	7438.8	7879.9	8340.5	9144.2	10168.4	11481.7	12035.4	12368.7
15°	5640.4	6056.9	6640.1	7252.6	7659.4	8619.8	9825.4	11305.3	12025.6	12319.7
17.5°	4748.5	5135.6	5615.9	6277.4	7095.8	8173.9	9771.4	11893.3	12682.3	13025.3
20°	3984.0	4199.7	4758.3	5439.5	6463.7	7718.2	9791.1	12760.7	13917.2	14069.1
22.5°	3685.1	3734.1	3954.6	4581.9	5704.1	7252.6	10139.0	13990.7	15304.0	15803.9
25°	3454.8	3445.0	3503.8	3925.2	5150.3	7071.3	10482.0	15122.7	16842.8	17386.7
27.5°	3327.4	3229.4	3234.3	3631.2	4758.3	6777.3	10923.1	16421.3	18587.3	18827.4
30°	3263.7	3244.1	3185.3	3347.0	4332.0	6336.3	10996.6	17700.3	19616.4	19964.3
32.5°	3224.5	3033.4	2959.9	3018.7	3930.1	5856.0	11271.0	18543.2	20890.5	20738.6
35°	3028.5	2856.9	2807.9	2866.7	3645.9	5586.5	11089.7	19278.3	21846.1	22100.9
37.5°	2955.0	2803.0	2705.0	2656.0	3381.3	5361.1	10996.6	20410.3	22772.3	23384.8
40°	2886.4	2724.6	2607.0	2558.0	3175.5	5062.1	10967.2	21282.6	23840.6	24208.1
42.5°	2807.9	2705.0	2572.7	2484.5	2925.6	4763.2	10629.0	21552.1	24168.9	24565.8
44°	2783.4	2626.6	2489.4	2460.0	2827.5	4611.3	10560.4	21797.1	24453.1	25055.9
45°	2758.9	2611.9	2455.1	2415.9	2793.2	4528.0	10467.3	21855.9	24923.6	25036.3
47.5°	2690.3	2597.2	2445.3	2337.5	2719.7	4346.7	10188.0	21522.7	24443.3	24462.9
50°	2636.4	2528.6	2371.8	2161.1	2621.7	4194.8	10315.4	21400.2	23286.8	23330.9
52.5°	2577.6	2415.9	2327.7	1965.1	2460.0	4067.4	10584.9	21953.9	23419.1	23409.3
55°	2509.0	2332.6	2117.0	1798.5	2190.5	3905.6	11236.7	23046.7	24644.2	24810.9
57.5°	2401.2	2249.3	1940.6	1651.4	1881.8	3596.9	11026.0	20954.2	22674.3	22703.7
60°	2259.1	2117.0	1759.3	1538.7	1543.6	2837.3	9859.7	16328.2	17891.5	18317.8
62.5°	2121.9	2043.5	1607.3	1377.0	1313.3	2259.1	8335.6	13569.3	15357.9	15710.8
65°	1960.2	1769.1	1475.0	1254.5	1127.1	1582.8	5905.0	10139.0	11981.5	12456.9
67.5°	1754.4	1548.5	1298.6	1102.6	965.4	1058.5	3048.1	5762.9	7630.0	7909.3
70°	1533.8	1342.7	1092.8	931.1	779.2	730.2	1342.7	2749.1	4170.3	4459.4
72.5°	1259.4	1083.0	872.3	735.1	583.2	504.7	450.8	735.1	1479.9	1720.0
75°	911.5	789.0	656.7	524.3	411.6	323.4	264.6	220.5	245.0	264.6
77.5°	671.4	573.3	485.1	372.4	289.1	230.3	181.3	137.2	132.3	127.4
80°	524.3	465.5	387.1	298.9	225.4	171.5	127.4	93.1	83.3	83.3
82.5°	411.6	382.2	318.5	245.0	186.2	137.2	93.1	63.7	53.9	53.9
85°	156.8	156.8	230.3	200.9	142.1	98.0	63.7	34.3	29.4	29.4
87.5°	39.2	39.2	39.2	39.2	34.3	29.4	29.4	14.7	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)