

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: P532424

Luminaire Tested: **GALN-SA7D-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-735-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37382 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G3

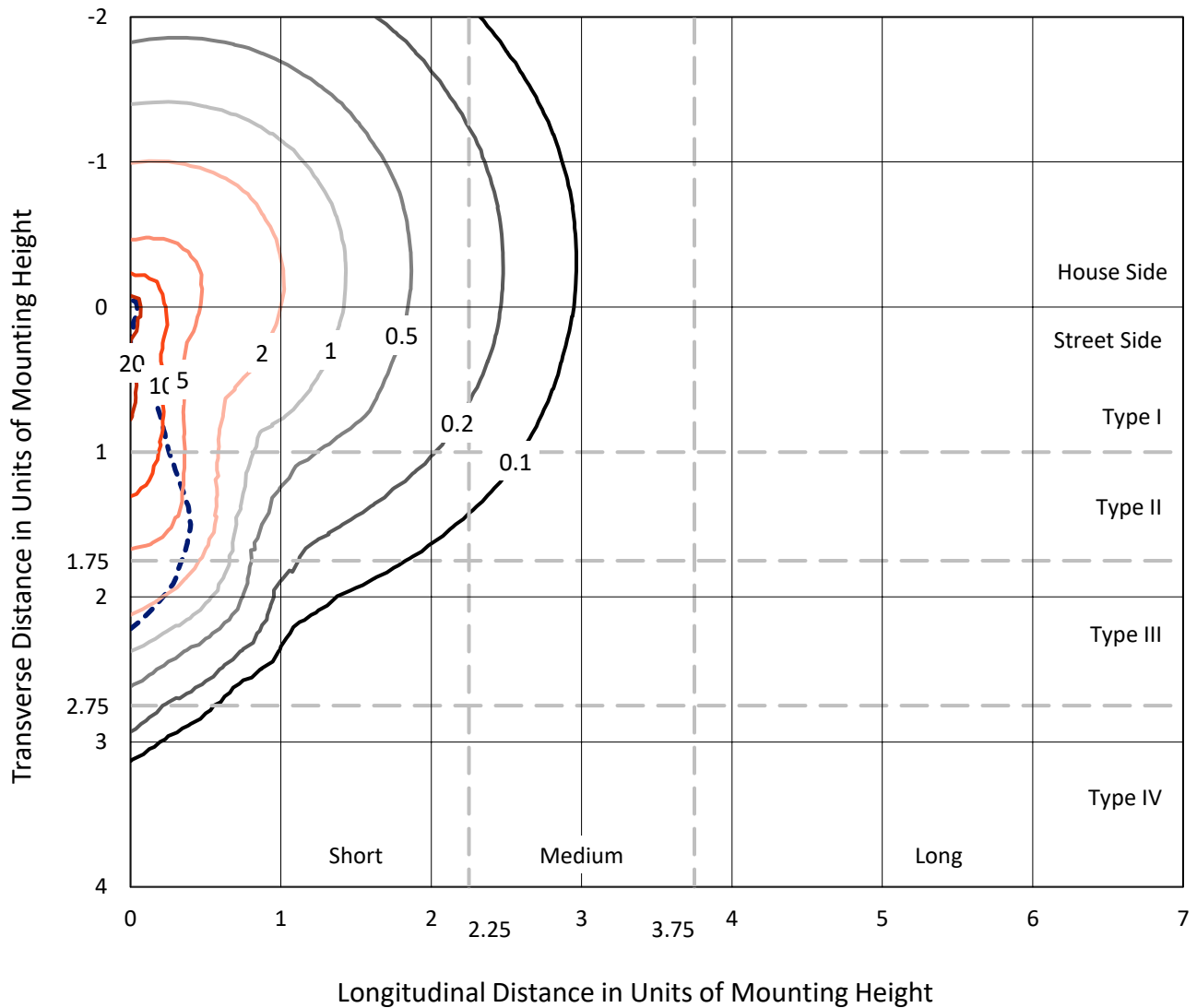
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

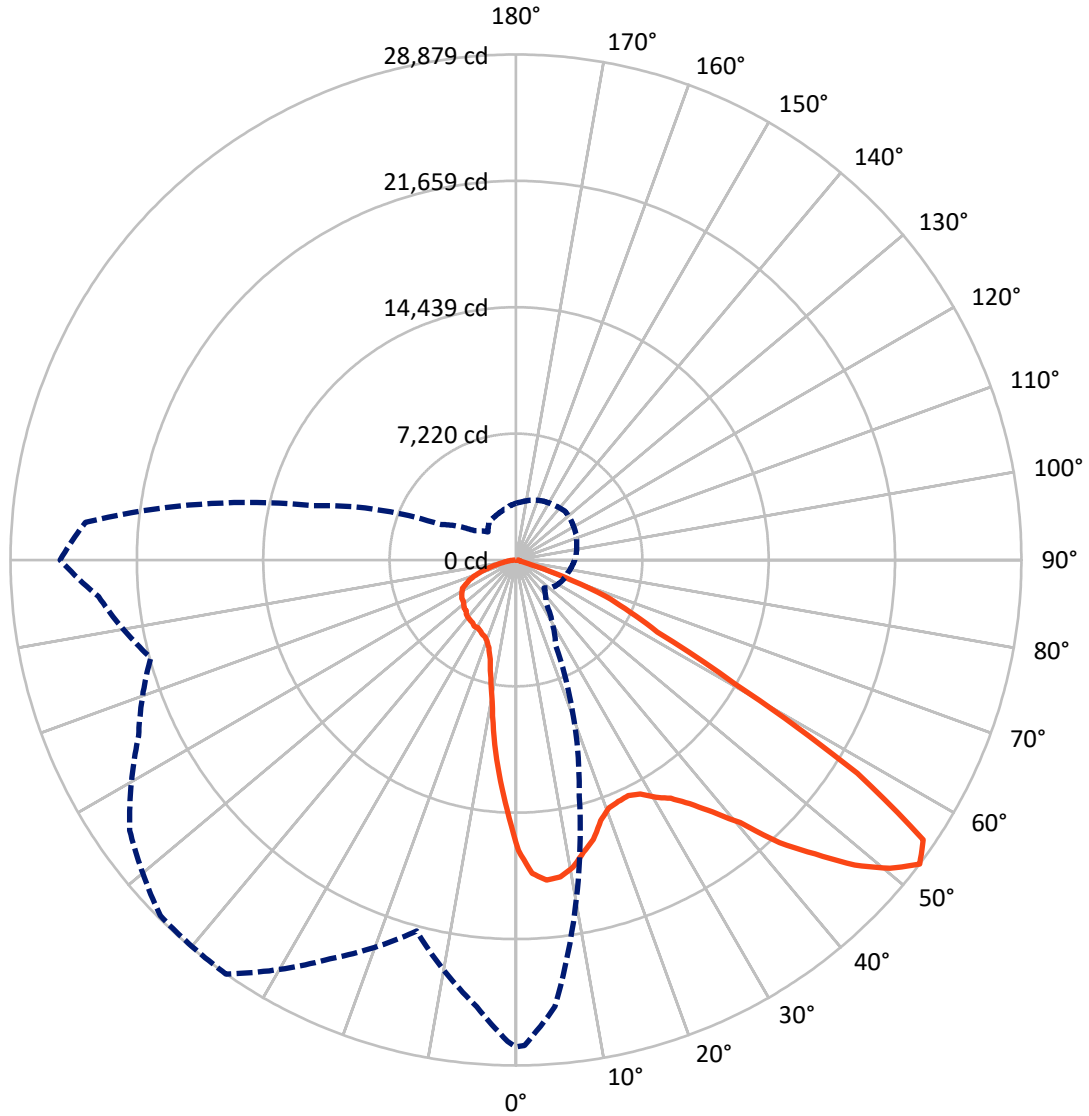
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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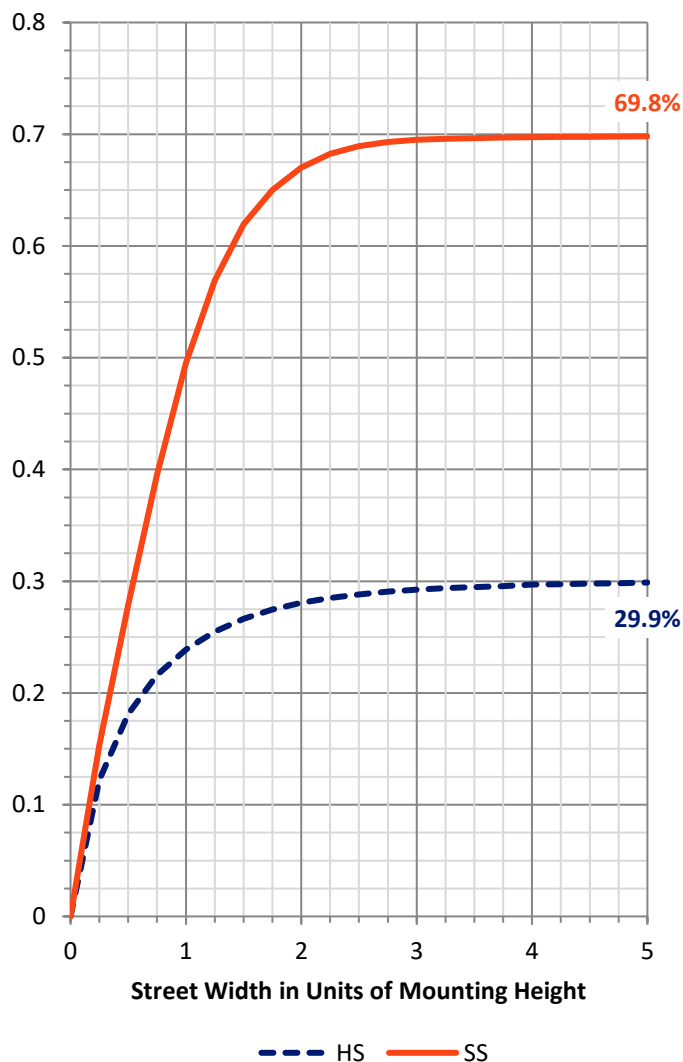
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11269.1	0.0	11269.1
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	26112.9	0.0	26112.9
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	37382.0	0.0	37382.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1265.7	3.4
10°-20°	2743.9	7.3
20°-30°	4145.7	11.1
30°-40°	5990.8	16.0
40°-50°	7972.6	21.3
50°-60°	8917.6	23.9
60°-70°	5025.9	13.4
70°-80°	1120.3	3.0
80°-90°	199.5	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°	37382.0	100.0
0°-180°	37382.0	100.0

**Coefficient of Utilization**

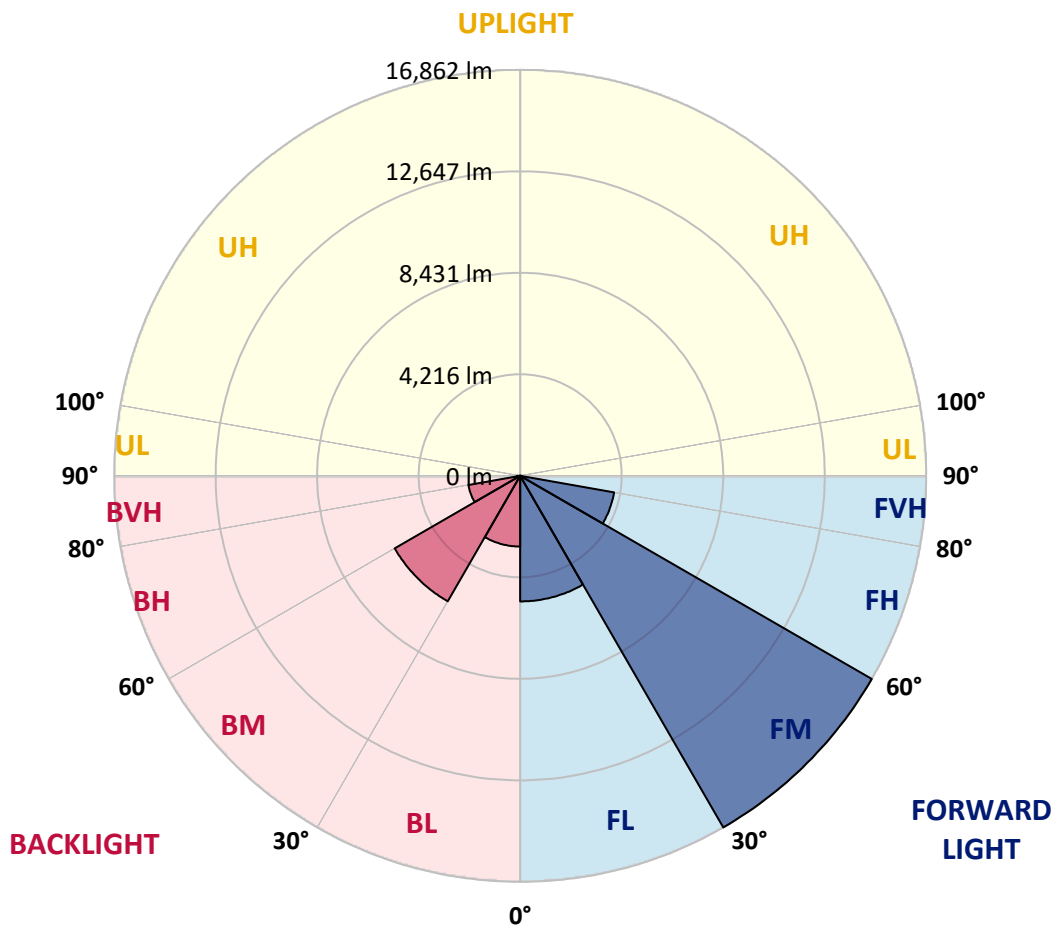


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5216.6	14.0			
FM (30°-60°)	16862.1	45.1			
FH (60°-80°)	3961.9	10.6			G2/5000
FVH (80°-90°)	72.2	0.2			G1/100
BL (0°-30°)	2938.7	7.9	B4/5000		
BM (30°-60°)	6018.8	16.1	B4/8500		
BH (60°-80°)	2184.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	127.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4
2.5°	16866.7	17137.6	16845.0	16324.9	15956.4	15620.5	15268.3	15197.9	14737.4	14656.1	14320.2
5°	15907.7	15848.1	15490.5	14807.8	14054.7	13372.0	12868.1	12380.5	12050.0	11665.3	11638.2
7.5°	14742.8	14396.0	14190.1	13155.3	12223.3	11150.5	10690.0	9947.7	9714.7	9368.0	9189.2
10°	13702.5	13447.8	12965.6	11930.8	10630.4	9920.6	9427.6	9026.6	8755.7	8398.1	7948.4
12.5°	13187.8	13084.8	12543.0	10939.2	9974.8	9216.3	8869.5	8479.4	8018.9	7444.5	7222.4
15°	13279.9	12933.1	12521.3	10749.6	9416.7	8685.3	8132.6	7645.0	7054.4	6507.2	6187.5
17.5°	13968.0	13702.5	12878.9	10868.8	9205.4	8148.9	7146.5	6425.9	5894.9	5401.9	5179.7
20°	15322.5	14937.8	14011.3	11020.5	8750.3	7401.2	6252.5	5364.0	4795.1	4535.0	4459.1
22.5°	16823.3	16595.8	15116.6	11361.9	8387.3	6707.7	5304.4	4415.8	4204.5	4134.0	4274.9
25°	18649.3	18058.7	16834.2	11919.9	8105.5	6117.1	4502.5	4009.4	3901.1	3971.5	4134.0
27.5°	20036.3	19879.2	18037.0	12445.5	7720.9	5407.3	4052.8	3727.7	3760.2	3830.6	3982.3
30°	21683.4	20887.0	19201.9	12808.5	7374.1	4919.7	3738.5	3651.8	3684.3	3803.5	3879.4
32.5°	22674.9	22376.9	19933.4	13355.7	6973.2	4497.1	3494.7	3413.4	3462.2	3641.0	3819.8
35°	23937.4	23346.8	20838.2	13496.6	6691.4	4329.1	3321.3	3261.7	3375.5	3500.1	3700.6
37.5°	25411.1	25004.7	22089.8	13399.1	6539.7	4155.7	3175.0	3147.9	3229.2	3402.6	3635.6
40°	26283.4	26158.8	22745.4	13458.7	6301.3	4004.0	3007.1	3039.6	3207.5	3343.0	3570.6
42.5°	27123.2	26310.5	23715.2	13437.0	6149.6	3798.1	3023.3	2985.4	3115.4	3272.6	3489.3
45°	27307.5	26500.1	23942.8	13285.3	5965.4	3597.6	2898.7	2915.0	3072.1	3267.1	3408.0
47.5°	27188.3	26592.3	24365.4	13241.9	5792.0	3456.8	2714.5	2909.5	3001.7	3158.8	3359.3
50°	27107.0	27074.5	24723.0	13447.8	5559.0	3234.6	2492.3	2839.1	2931.2	3088.3	3305.1
52.5°	27822.2	27751.7	25617.0	13989.7	5374.8	2996.2	2264.8	2660.3	2882.5	3034.2	3245.5
55°	28255.6	27946.8	27150.3	14656.1	5066.0	2682.0	2107.7	2438.2	2763.3	2898.7	3115.4
57.5°	25416.5	25205.2	24560.5	13680.8	4545.8	2270.2	1912.6	2210.6	2600.7	2812.0	3034.2
60°	21147.0	20816.5	19164.0	11627.3	3353.8	1766.3	1793.4	2031.8	2557.4	2638.6	2898.7
62.5°	19938.8	19120.6	16872.1	9357.1	2573.6	1517.1	1609.2	1869.3	2329.8	2465.3	2725.3
65°	15821.0	15214.2	12071.6	6756.4	1723.0	1316.6	1468.3	1685.0	2010.1	2275.6	2514.0
67.5°	9904.4	9324.6	6442.2	3196.7	1202.8	1127.0	1311.2	1538.8	1804.2	2042.6	2308.1
70°	5174.3	4540.4	2974.6	1154.1	829.0	921.1	1094.5	1311.2	1571.3	1766.3	1972.2
72.5°	1928.9	1565.8	969.8	498.5	574.3	704.4	888.6	1045.7	1229.9	1468.3	1582.1
75°	298.0	254.7	249.2	303.4	390.1	509.3	633.9	791.0	953.6	1105.3	1181.2
77.5°	140.9	135.5	151.7	200.5	260.1	363.0	460.5	612.3	742.3	839.8	883.2
80°	92.1	86.7	97.5	135.5	195.1	270.9	368.4	471.4	590.6	671.9	661.0
82.5°	54.2	59.6	59.6	92.1	135.5	195.1	265.5	357.6	438.9	509.3	466.0
85°	32.5	27.1	27.1	54.2	92.1	157.1	222.1	151.7	157.1	157.1	178.8
87.5°	10.8	10.8	10.8	5.4	10.8	10.8	16.3	27.1	32.5	37.9	48.8
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°	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4
2.5°	14309.3	14477.3	14417.7	14206.4	14368.9	14396.0	14287.6	14661.5	14731.9	14618.2	14650.7
5°	11600.2	11643.6	11741.1	11947.0	12093.3	12266.7	12266.7	12277.5	12131.2	12499.7	12391.3
7.5°	9037.5	9064.6	9178.3	9617.2	9741.8	10072.3	10213.2	10115.7	9823.1	9698.5	9801.4
10°	7802.1	7645.0	7607.1	7661.3	7943.0	8083.9	8203.1	8170.6	8121.8	8024.3	7915.9
12.5°	6978.6	6864.8	6772.7	6642.6	6658.9	6794.4	6886.5	6810.6	6832.3	6854.0	6886.5
15°	6084.6	6003.3	5954.5	5759.5	5737.8	5829.9	5862.4	5905.8	5987.1	5992.5	5954.5
17.5°	5136.4	5066.0	5174.3	5282.7	5206.8	5212.3	5271.9	5309.8	5288.1	5190.6	5141.8
20°	4486.2	4562.1	4670.4	4773.4	4854.7	4903.4	4925.1	4865.5	4795.1	4594.6	4589.2
22.5°	4296.6	4394.1	4486.2	4643.4	4719.2	4843.8	4730.0	4594.6	4497.1	4399.5	4285.8
25°	4155.7	4237.0	4421.2	4480.8	4627.1	4730.0	4648.8	4513.3	4345.4	4204.5	4117.8
27.5°	4052.8	4144.9	4264.1	4426.6	4540.4	4600.0	4518.7	4464.6	4291.2	4123.2	3998.6
30°	3987.8	4085.3	4302.0	4437.5	4535.0	4583.8	4442.9	4377.9	4253.2	4112.4	4004.0
32.5°	3944.4	4031.1	4215.3	4388.7	4453.7	4453.7	4475.4	4399.5	4226.2	3987.8	3895.6
35°	3803.5	3922.7	4074.4	4274.9	4394.1	4464.6	4356.2	4269.5	4155.7	3911.9	3743.9
37.5°	3722.3	3803.5	3998.6	4188.2	4291.2	4367.0	4323.7	4172.0	4020.3	3819.8	3684.3
40°	3635.6	3765.6	3939.0	4117.8	4231.6	4307.4	4274.9	4096.1	3911.9	3722.3	3630.2
42.5°	3576.0	3662.7	3841.5	4041.9	4177.4	4323.7	4226.2	4004.0	3874.0	3613.9	3511.0
45°	3527.2	3668.1	3857.7	3939.0	4079.9	4231.6	4058.2	3922.7	3771.0	3581.4	3494.7
47.5°	3467.6	3597.6	3722.3	3939.0	4004.0	4074.4	4041.9	3825.2	3695.2	3489.3	3429.7
50°	3445.9	3494.7	3722.3	3841.5	3933.6	4004.0	3917.3	3754.8	3630.2	3418.8	3288.8
52.5°	3359.3	3451.4	3597.6	3754.8	3868.6	3955.2	3814.4	3711.4	3543.5	3321.3	3240.1
55°	3250.9	3305.1	3565.1	3727.7	3787.3	3846.9	3792.7	3624.7	3451.4	3223.8	3142.5
57.5°	3110.0	3234.6	3445.9	3673.5	3749.4	3781.9	3695.2	3559.7	3343.0	3142.5	3012.5
60°	2963.7	3093.8	3326.7	3511.0	3586.8	3706.0	3576.0	3494.7	3245.5	3023.3	2882.5
62.5°	2817.4	2963.7	3137.1	3370.1	3435.1	3483.9	3451.4	3337.6	3137.1	2887.9	2714.5
65°	2644.1	2752.4	2969.1	3088.3	3131.7	3245.5	3131.7	3088.3	2909.5	2671.1	2524.9
67.5°	2384.0	2476.1	2665.7	2779.5	2812.0	2860.8	2855.4	2806.6	2606.1	2443.6	2313.5
70°	2086.0	2167.3	2286.5	2421.9	2438.2	2497.8	2443.6	2432.7	2302.7	2080.6	2010.1
72.5°	1674.2	1750.1	1907.2	1966.8	1972.2	1993.9	1966.8	1928.9	1896.4	1663.4	1592.9
75°	1284.1	1327.4	1403.3	1457.5	1457.5	1484.6	1468.3	1430.4	1343.7	1197.4	1127.0
77.5°	894.0	937.3	1034.9	1067.4	1062.0	1072.8	1024.0	986.1	856.1	780.2	720.6
80°	650.2	677.3	726.0	747.7	753.1	769.4	709.8	677.3	601.4	514.7	487.6
82.5°	471.4	487.6	493.1	520.1	520.1	493.1	476.8	444.3	390.1	335.9	314.3
85°	195.1	200.5	205.9	238.4	243.8	292.6	270.9	254.7	222.1	189.6	173.4
87.5°	48.8	54.2	70.4	59.6	70.4	70.4	75.9	86.7	86.7	70.4	70.4
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°	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4
2.5°	14775.3	14818.6	15371.3	15441.7	15712.6	15988.9	16547.0	16948.0	17273.0	17484.4	17544.0
5°	12505.1	12781.4	13036.1	13447.8	13821.7	14352.7	14964.9	15723.5	16677.1	17164.7	17359.7
7.5°	9790.6	10115.7	10484.1	10885.1	11432.3	12385.9	13204.0	14081.8	15300.8	15804.7	16568.7
10°	7991.8	8354.8	8842.4	9151.2	9812.3	10722.5	11676.1	12689.3	13854.2	14580.2	15463.4
12.5°	7065.3	7363.3	7813.0	8463.1	8956.2	9546.8	10256.5	11535.2	13204.0	13892.1	14499.0
15°	6041.2	6371.7	6891.9	7612.5	8203.1	8907.4	9703.9	11096.4	12873.5	13935.5	14450.2
17.5°	5196.0	5434.4	5981.6	6604.7	7282.0	8051.4	9194.6	11074.7	13220.3	14580.2	15420.0
20°	4610.8	4643.4	4941.3	5472.3	6393.4	7395.8	8880.3	10966.3	14331.0	15690.9	16752.9
22.5°	4242.4	4209.9	4215.3	4665.0	5309.8	6751.0	8387.3	11334.8	15593.4	17457.3	18172.5
25°	4058.2	3971.5	3917.3	4014.8	4600.0	5987.1	8013.4	11822.4	16953.4	18914.7	19792.5
27.5°	3960.7	3809.0	3700.6	3716.8	4144.9	5602.4	7780.5	12033.7	18302.5	20946.6	21255.4
30°	3922.7	3733.1	3576.0	3521.8	3803.5	5066.0	7282.0	12396.7	19510.7	22062.7	22328.2
32.5°	3787.3	3554.3	3402.6	3353.8	3467.6	4594.6	6924.4	12656.8	20578.1	23276.4	23184.2
35°	3630.2	3435.1	3245.5	3153.4	3234.6	4291.2	6637.2	12532.2	21835.1	24219.1	24170.3
37.5°	3613.9	3359.3	3202.1	3050.4	3045.0	3917.3	6247.1	12651.4	22637.0	25909.6	25243.1
40°	3473.0	3310.5	3104.6	2980.0	2909.5	3727.7	5867.9	12369.6	23812.7	26592.3	25936.7
42.5°	3478.4	3234.6	3055.8	2909.5	2839.1	3451.4	5607.8	12293.8	24224.5	27703.0	26261.8
45°	3391.8	3153.4	3001.7	2828.3	2790.3	3240.1	5358.5	11941.6	24950.6	27757.2	25855.4
47.5°	3305.1	3093.8	2931.2	2725.3	2638.6	3164.2	5163.5	11649.0	24571.3	27247.9	25291.9
50°	3245.5	3001.7	2849.9	2703.7	2459.8	3034.2	4908.8	11578.6	24040.3	26559.7	24246.2
52.5°	3142.5	2925.8	2768.7	2654.9	2264.8	2915.0	4811.3	11990.4	24690.5	26045.0	23942.8
55°	3045.0	2822.9	2622.4	2400.2	2102.2	2600.7	4540.4	12375.0	25638.7	27231.6	25319.0
57.5°	2942.1	2730.7	2514.0	2248.5	1945.1	2275.6	4258.7	12445.5	23861.5	25167.3	24034.9
60°	2806.6	2535.7	2373.1	2026.4	1777.2	1885.5	3375.5	10971.7	18508.4	21017.0	21054.9
62.5°	2654.9	2362.3	2221.4	1815.1	1603.8	1625.4	2752.4	9221.7	15013.7	17397.7	18432.5
65°	2454.4	2172.7	2004.7	1679.6	1479.2	1408.7	2015.6	6756.4	11405.2	14114.3	15290.0
67.5°	2194.3	1928.9	1717.6	1462.9	1322.0	1208.2	1376.2	3803.5	6734.8	9476.3	9833.9
70°	1918.0	1690.5	1468.3	1257.0	1099.9	1018.6	1007.8	1685.0	3218.4	5098.5	5802.8
72.5°	1511.7	1349.1	1170.3	1013.2	910.2	791.0	720.6	698.9	1089.0	2075.1	2866.2
75°	1083.6	948.2	845.2	742.3	666.4	601.4	547.2	498.5	455.1	520.1	715.2
77.5°	682.7	633.9	552.7	525.6	482.2	466.0	444.3	417.2	384.7	363.0	363.0
80°	460.5	428.0	400.9	395.5	379.3	373.9	379.3	352.2	319.7	292.6	303.4
82.5°	308.8	303.4	298.0	292.6	298.0	303.4	314.3	308.8	281.7	265.5	270.9
85°	184.2	195.1	205.9	216.7	238.4	211.3	173.4	146.3	130.0	119.2	113.8
87.5°	70.4	97.5	86.7	81.3	86.7	81.3	75.9	70.4	59.6	54.2	54.2
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: P532424

CATALOG NUMBER: GALN-SA7D-735-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4	16590.4
2.5°	17939.5	18047.8	18140.0	18118.3	17928.6	17674.0	17571.0	17045.5	16937.1	16866.7
5°	18183.3	18811.8	18947.3	18866.0	18372.9	17749.8	17143.0	16373.6	15923.9	15907.7
7.5°	17733.6	18508.4	18752.2	18936.4	18280.8	17197.2	16156.9	15002.8	14721.1	14742.8
10°	16590.4	17825.7	18427.1	18616.7	17863.6	16926.3	15485.1	14314.7	13713.3	13702.5
12.5°	15956.4	16926.3	17094.2	17359.7	17137.6	16189.4	15095.0	13783.8	13198.6	13187.8
15°	15393.0	16032.3	16081.1	16454.9	16574.1	15934.8	15197.9	13800.0	13328.6	13279.9
17.5°	15886.0	15441.7	15257.5	15306.3	15658.4	15891.4	15793.9	14721.1	14238.9	13968.0
20°	16216.5	15225.0	14666.9	14721.1	15138.3	15988.9	16682.5	16054.0	15290.0	15322.5
22.5°	17099.7	15257.5	14385.2	14325.6	14986.6	16498.3	17684.8	17739.0	17002.1	16823.3
25°	18421.7	15631.3	14298.5	14282.2	14916.2	17045.5	18855.1	19732.9	18979.8	18649.3
27.5°	19483.7	16216.5	14569.4	14623.6	15138.3	17489.8	19852.1	21017.0	20442.7	20036.3
30°	20415.6	16823.3	14948.7	14699.4	15734.3	17722.8	20280.1	22479.9	22019.3	21683.4
32.5°	20800.3	17684.8	15550.1	15138.3	16227.3	18004.5	21168.7	23899.4	23503.9	22674.9
35°	21450.4	18167.0	15875.2	15842.7	17088.8	18681.8	21585.9	24836.8	24674.2	23937.4
37.5°	21970.6	18654.7	17029.2	16671.6	18270.0	19819.6	22257.7	26131.7	25757.9	25411.1
40°	22371.5	19527.0	18107.4	18578.8	19722.0	20854.4	22875.4	26213.0	27291.2	26283.4
42.5°	22003.1	20307.2	19879.2	21006.1	22089.8	22035.6	22945.8	26841.5	27648.8	27123.2
45°	21911.0	21629.2	22680.4	23704.4	23953.6	23016.3	22442.0	26148.0	27540.4	27307.5
47.5°	21688.8	22929.6	24760.9	26429.7	26050.4	23671.9	21840.5	26023.4	27605.5	27188.3
50°	21613.0	23211.3	26299.7	27925.1	27697.6	24240.8	21558.8	25221.5	27144.9	27107.0
52.5°	21607.6	23791.1	26939.0	28737.8	28878.7	25140.2	21943.5	25627.8	27502.5	27822.2
55°	21851.4	23606.9	26857.7	28288.1	28234.0	24739.3	21986.8	25898.7	27941.4	28255.6
57.5°	20610.6	21147.0	22165.6	23298.0	23005.4	20491.4	19635.4	23942.8	25644.1	25416.5
60°	17798.6	16119.0	14970.3	14916.2	14347.2	13561.6	16070.2	21369.2	21369.2	21147.0
62.5°	15588.0	10581.6	9091.6	8669.0	9075.4	9980.2	15501.3	20784.0	20193.4	19938.8
65°	13632.1	8078.5	6572.2	6453.0	7157.4	8522.7	14016.7	17706.5	16666.2	15821.0
67.5°	8772.0	5916.6	4887.2	4675.9	5526.5	6258.0	9330.0	10890.5	10234.9	9904.4
70°	5656.5	3852.3	2719.9	2551.9	2882.5	3857.7	5960.0	6350.1	5396.5	5174.3
72.5°	2676.6	1663.4	953.6	785.6	883.2	1473.7	2356.9	2535.7	2107.7	1928.9
75°	850.6	612.3	390.1	335.9	319.7	379.3	541.8	417.2	303.4	298.0
77.5°	379.3	363.0	308.8	260.1	227.6	189.6	157.1	130.0	135.5	140.9
80°	314.3	287.2	254.7	227.6	189.6	146.3	113.8	86.7	86.7	92.1
82.5°	276.3	249.2	222.1	189.6	162.5	119.2	86.7	59.6	54.2	54.2
85°	119.2	140.9	151.7	162.5	130.0	97.5	59.6	37.9	32.5	32.5
87.5°	48.8	43.3	37.9	32.5	27.1	27.1	21.7	16.3	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)