

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: P530498

Luminaire Tested: **GALN-SA5D-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530498
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-SA5D-727-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 24130 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

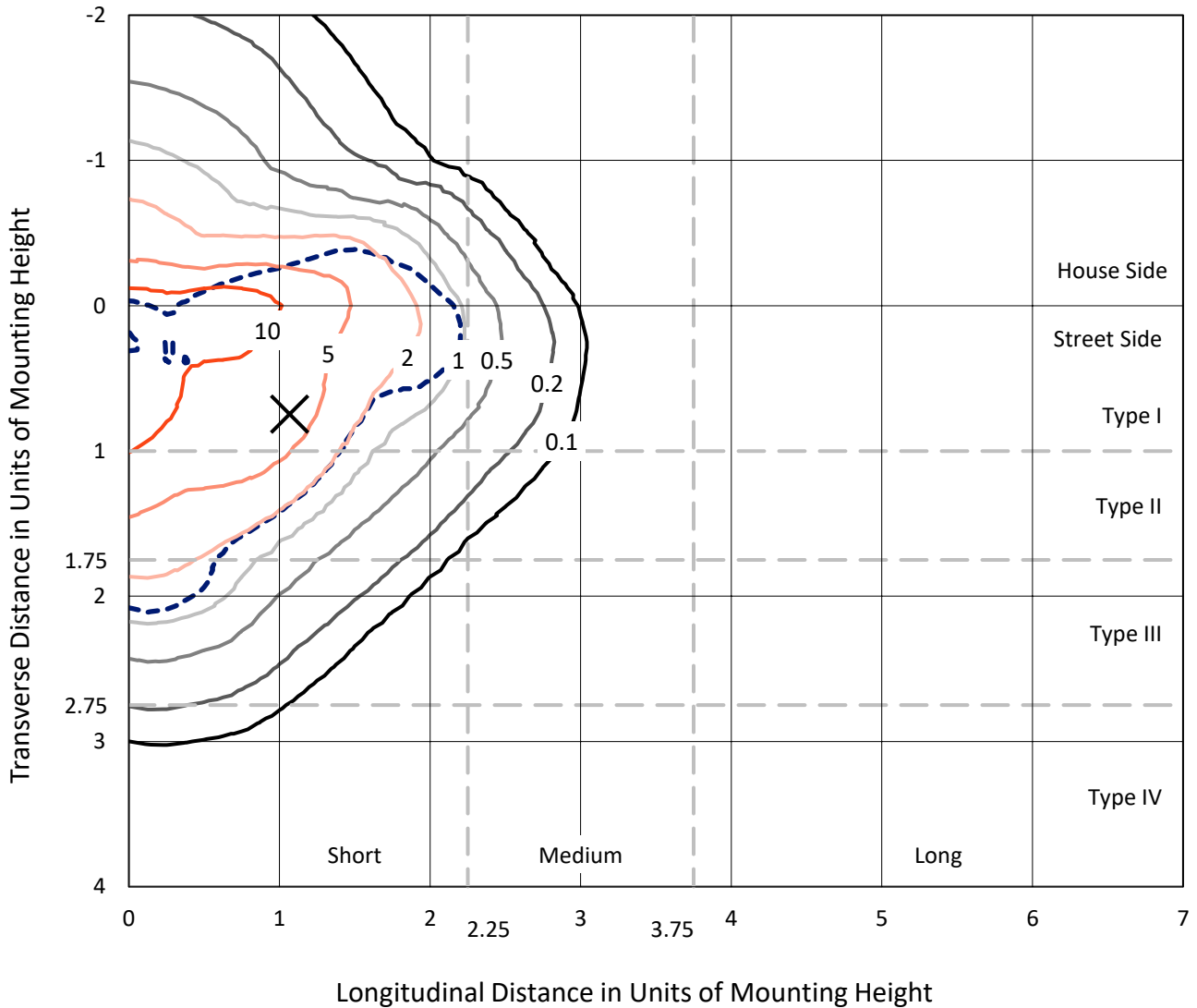
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

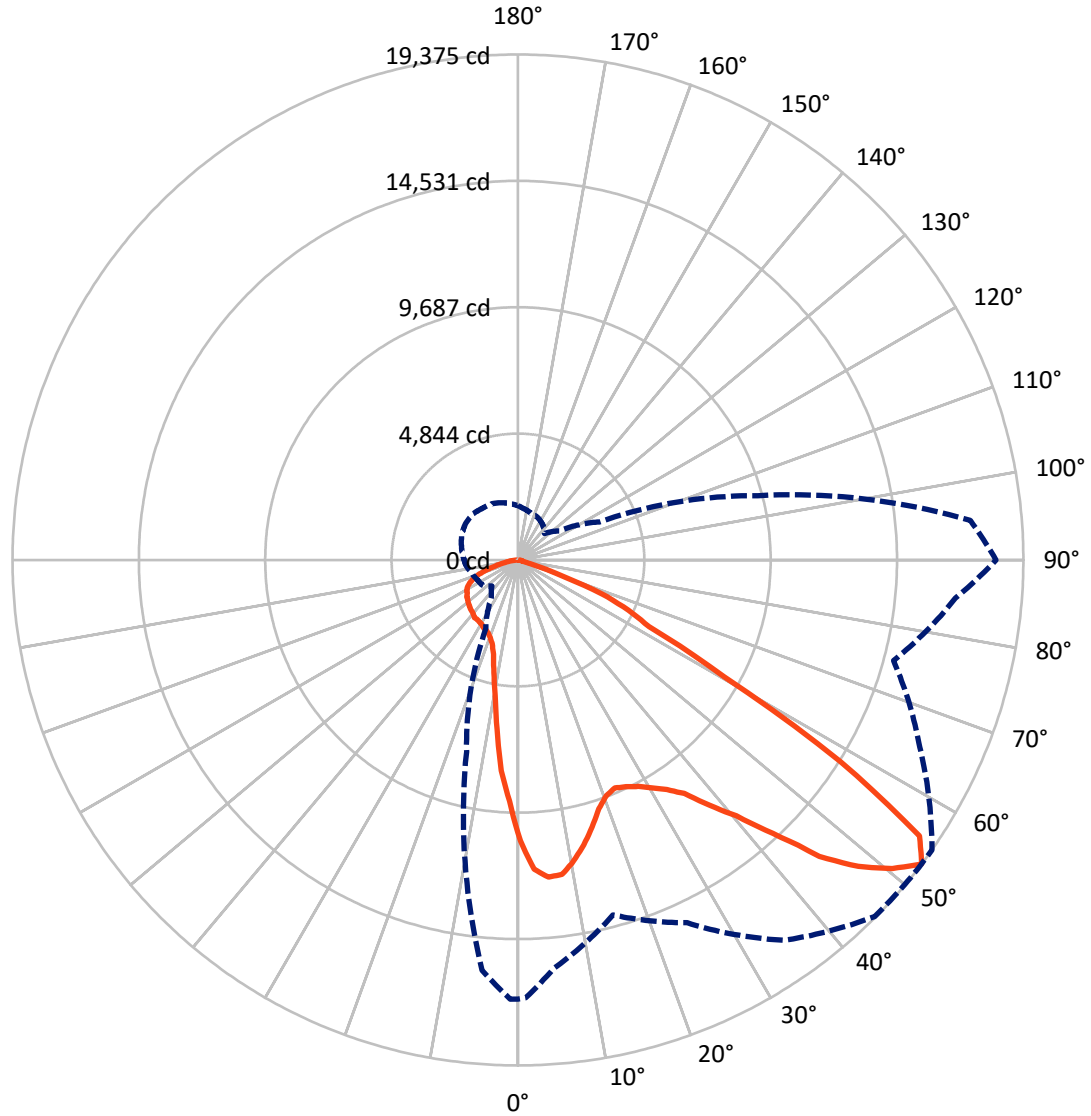
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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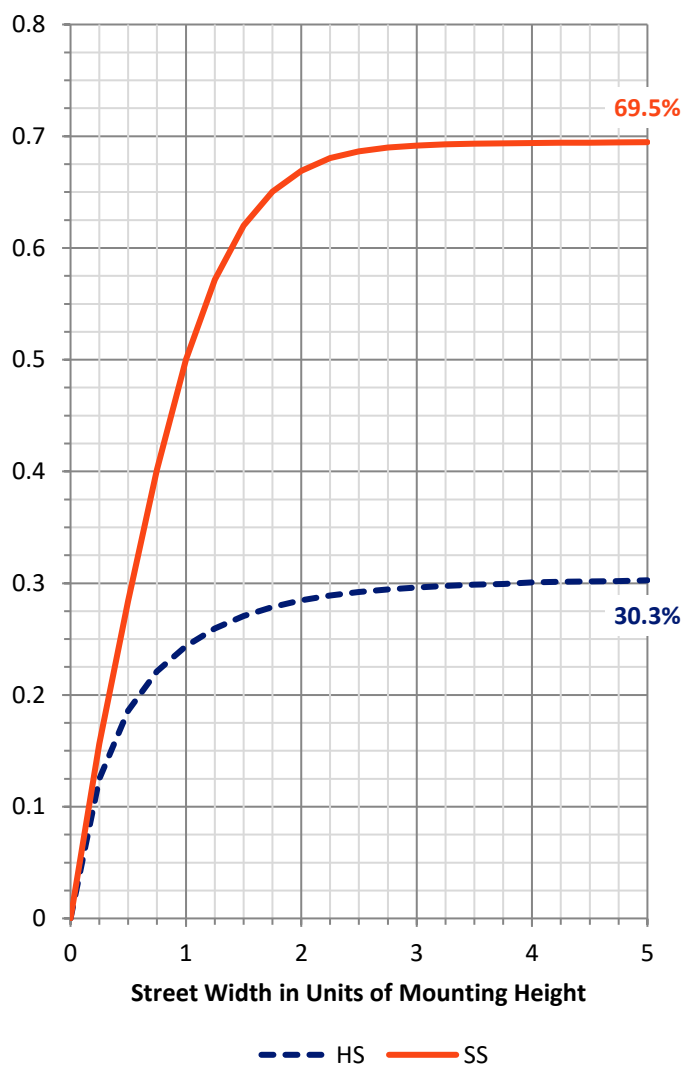
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7361.0	0.0	7361.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16769.0	0.0	16769.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	24130.0	0.0	24130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.3	3.4
10°-20°	1773.1	7.3
20°-30°	2688.6	11.1
30°-40°	3884.5	16.1
40°-50°	5190.8	21.5
50°-60°	5794.1	24.0
60°-70°	3178.3	13.2
70°-80°	687.1	2.8
80°-90°	111.2	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°	24130.0	100.0
0°-180°	24130.0	100.0

Coefficient of Utilization



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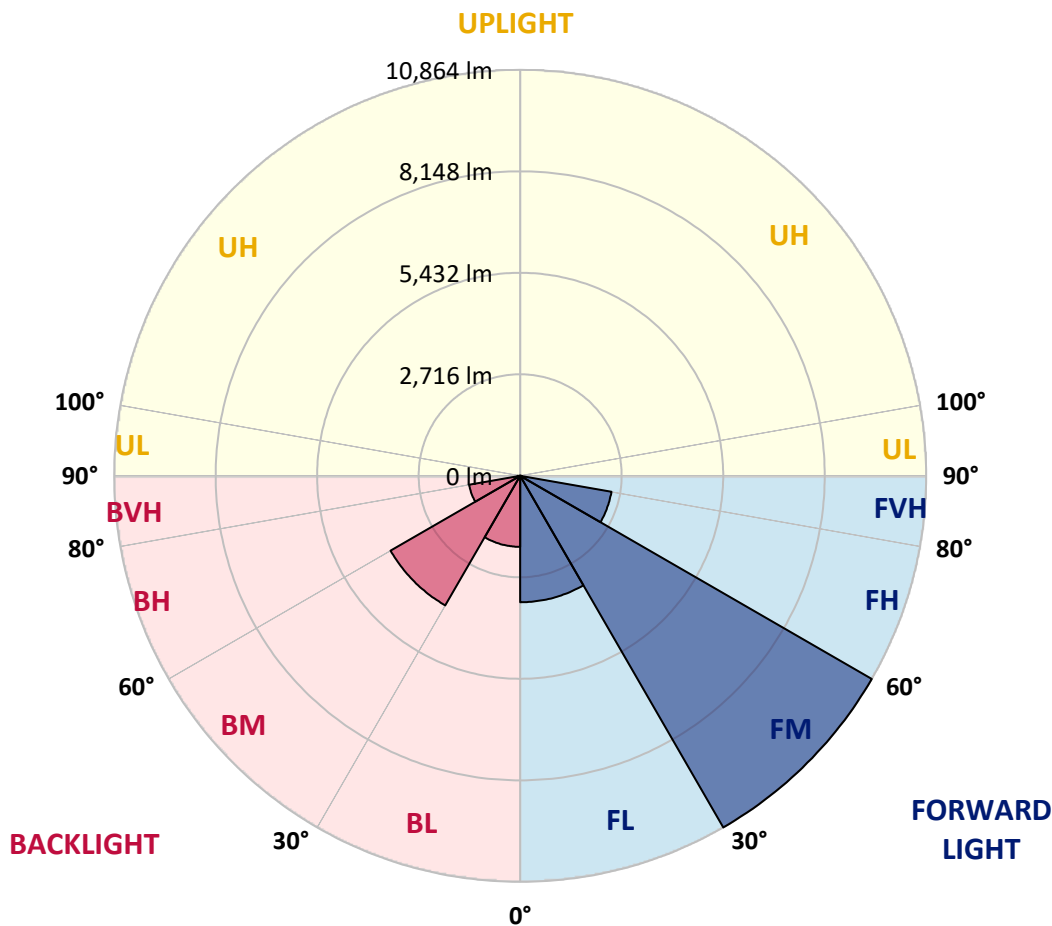
CATALOG NUMBER: GALN-SA5D-727-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3383.5	14.0			
FM (30°-60°)	10864.5	45.0			
FH (60°-80°)	2480.0	10.3			G2/5000
FVH (80°-90°)	41.2	0.2			G1/100
BL (0°-30°)	1900.5	7.9	B3/2500		
BM (30°-60°)	4005.0	16.6	B3/5000		
BH (60°-80°)	1385.5	5.7	B3/2500		G3/2500
BVH (80°-90°)	70.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8
2.5°	11295.9	11232.5	11288.8	11556.6	11711.6	11817.3	11884.3	11873.7	11620.0	11373.4	11373.4
5°	10964.7	10883.6	10999.9	11605.9	12215.5	12268.3	12356.4	12211.9	11838.5	11387.5	10823.7
7.5°	10006.3	10066.2	10260.0	11056.3	11849.0	12247.2	12352.9	12169.7	11563.6	10721.6	9893.6
10°	9178.3	9319.3	9766.7	10626.4	11355.8	11873.7	11990.0	11732.8	11253.6	10221.3	9481.3
12.5°	8892.9	8804.9	9301.7	10161.4	10859.0	11137.3	11190.2	11207.8	10883.6	9967.6	9065.6
15°	8857.7	8914.1	9301.7	9953.5	10383.3	10397.4	10485.5	10622.9	10665.2	10140.2	9259.4
17.5°	9365.1	9298.1	9696.3	10214.2	10009.8	9805.5	9826.6	10023.9	10372.8	10288.2	9868.9
20°	10115.5	10267.1	10580.6	10527.8	9978.1	9460.2	9463.7	9650.5	10337.5	10901.3	10718.0
22.5°	11362.8	11510.8	11743.3	11105.6	9978.1	9358.0	9238.2	9491.9	10563.0	11630.6	11676.4
25°	12500.9	12772.2	12835.6	12085.1	10478.5	9453.2	9375.6	9625.8	10788.5	12342.3	12775.7
27.5°	13536.7	13635.4	13913.7	12715.8	10756.8	9516.6	9509.5	9830.2	11073.9	12698.2	13758.7
30°	14354.1	14343.6	14502.1	13113.9	11200.7	9872.4	9530.7	10136.7	11447.4	13286.6	14667.7
32.5°	14910.8	15030.6	15365.3	13667.1	11387.5	10210.7	9942.9	10496.1	11901.9	13564.9	15309.0
35°	15890.3	16098.2	15675.4	13973.6	11979.4	10545.4	10231.8	10985.8	12127.4	13867.9	16094.7
37.5°	16813.4	16654.9	16225.0	14139.2	12363.4	11165.5	10873.1	11933.6	12828.5	14526.8	16616.1
40°	17405.4	17401.8	16637.3	14273.1	12634.7	12113.3	12095.7	12895.5	13688.2	14942.5	17201.0
42.5°	17662.6	17909.2	16806.4	14259.0	13205.5	13261.9	13617.8	14333.0	14297.8	15027.1	17186.9
44°	18014.9	18162.9	17098.8	14290.7	13586.1	14037.0	14875.6	15330.1	14829.8	14981.3	17169.3
45°	18000.8	18011.4	16683.1	14333.0	13910.2	14685.3	15435.8	16203.9	15298.4	14882.6	17401.8
47.5°	17588.6	17468.8	16330.7	14019.4	14921.4	16397.7	17091.8	17556.9	15876.2	14671.2	17112.9
50°	16774.7	16637.3	15474.6	13885.5	15132.8	17461.7	18420.1	18589.2	16401.2	14463.4	16827.5
52.5°	16831.1	16792.3	15717.7	14086.4	15344.2	17796.5	19332.6	19374.9	16996.7	14900.3	16831.1
55°	17838.7	17704.9	16415.3	14336.5	15189.2	17405.4	18751.3	18677.3	16795.8	14636.0	17141.1
57.5°	16323.7	16411.8	15449.9	13346.5	13293.6	14149.8	14741.7	14558.5	14015.9	13209.1	15946.7
60°	13170.3	13420.5	13512.1	11162.0	10031.0	9590.6	9414.4	9090.3	9181.9	10851.9	14008.9
62.5°	11295.9	11281.8	11856.1	10119.1	6571.1	5651.5	5566.9	5640.9	6697.9	10682.8	13719.9
65°	8956.4	9196.0	9372.1	8575.8	5200.5	4196.3	4192.8	4661.4	5795.9	8928.2	11077.4
67.5°	5686.7	6000.3	6218.7	5485.9	3477.6	2987.8	2906.8	3470.5	4016.6	5855.8	6669.7
70°	3206.3	3354.2	3452.9	3164.0	2212.7	1550.3	1458.7	1592.6	2427.6	3791.1	3953.2
72.5°	1236.7	1303.6	1437.5	1448.1	835.0	500.3	405.2	486.2	1021.8	1500.9	1430.5
75°	190.3	204.4	288.9	345.3	239.6	183.2	193.8	200.8	285.4	387.6	324.1
77.5°	91.6	91.6	88.1	102.2	119.8	130.4	140.9	155.0	169.1	186.7	179.7
80°	59.9	59.9	59.9	70.5	88.1	105.7	119.8	126.8	133.9	148.0	140.9
82.5°	38.8	38.8	38.8	52.9	70.5	88.1	95.1	112.7	126.8	148.0	137.4
85°	21.1	21.1	21.1	35.2	52.9	74.0	70.5	56.4	31.7	3.5	7.0
87.5°	7.0	7.0	7.0	7.0	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°	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8
2.5°	11077.4	10915.4	10901.3	10570.1	10274.1	10129.6	10013.4	9689.2	9759.7	9573.0	9569.4
5°	10541.9	10210.7	9675.1	9234.7	8794.3	8706.2	8322.2	7987.4	7998.0	7758.4	7800.7
7.5°	9580.0	9351.0	8699.2	8008.6	7423.7	7008.0	6645.0	6426.6	6148.3	6053.1	6003.8
10°	8970.5	8688.6	7955.7	7089.0	6433.6	6211.7	5862.9	5669.1	5383.7	5242.8	5144.1
12.5°	8702.7	8290.5	7374.4	6493.5	6056.6	5827.6	5531.7	5179.3	4841.1	4710.7	4531.0
15°	8730.9	8237.6	7205.3	6254.0	5729.0	5285.0	5020.8	4629.7	4284.4	4055.4	3925.0
17.5°	9157.2	8558.2	7282.8	6070.7	5316.7	4760.1	4242.1	3819.3	3544.5	3371.8	3329.6
20°	10164.9	9351.0	7413.1	5774.8	4904.5	4210.4	3572.7	3132.3	2920.9	2917.3	2920.9
22.5°	11003.4	10196.6	7677.4	5598.6	4492.3	3505.7	2871.5	2730.6	2688.3	2776.4	2787.0
25°	12134.4	11147.9	8131.9	5507.0	4111.8	2987.8	2596.7	2543.9	2540.3	2653.1	2656.6
27.5°	13293.6	11979.4	8403.2	5239.2	3724.2	2720.0	2431.1	2420.5	2476.9	2596.7	2586.1
30°	14082.8	12677.0	8892.9	4918.6	3266.1	2484.0	2364.2	2378.3	2455.8	2547.4	2561.5
32.5°	15002.4	13364.1	9019.8	4742.4	2984.3	2286.7	2202.1	2233.8	2332.5	2476.9	2554.4
35°	16055.9	13850.3	9213.6	4502.8	2878.6	2135.2	2092.9	2128.1	2247.9	2343.0	2427.6
37.5°	16834.6	14710.0	9248.8	4316.1	2762.3	2050.6	1983.6	2099.9	2170.4	2304.3	2346.6
40°	17412.4	15333.6	9340.4	4199.8	2670.7	1941.4	1941.4	2018.9	2114.0	2237.3	2321.9
42.5°	17782.4	15788.1	9407.4	4094.1	2494.5	1909.7	1892.0	1969.6	2096.4	2216.2	2254.9
44°	18007.9	15981.9	9340.4	3995.5	2445.2	1870.9	1870.9	1937.8	2036.5	2177.4	2223.2
45°	18064.2	16225.0	9192.4	3992.0	2385.3	1825.1	1818.1	1944.9	2011.8	2184.5	2212.7
47.5°	18282.7	16524.5	9210.0	3879.2	2240.9	1715.9	1839.2	1895.6	1955.5	2107.0	2202.1
50°	18275.6	16711.3	9171.3	3713.6	2135.2	1592.6	1796.9	1860.3	1920.2	2075.3	2114.0
52.5°	18325.0	17408.9	9527.1	3449.4	1944.9	1434.0	1656.0	1796.9	1870.9	2001.3	2082.3
55°	18300.3	17807.0	9879.5	3252.1	1677.1	1338.9	1536.2	1701.8	1807.5	1944.9	1983.6
57.5°	16714.8	15738.8	9143.1	2882.1	1388.2	1226.1	1367.1	1603.1	1737.0	1877.9	1927.3
60°	13656.5	12130.9	7540.0	2121.1	1141.6	1127.5	1271.9	1571.4	1627.8	1751.1	1835.7
62.5°	12620.7	10640.5	5979.1	1620.7	976.0	1032.3	1173.3	1419.9	1508.0	1659.5	1737.0
65°	9876.0	7067.8	3703.0	1095.8	859.7	926.6	1060.5	1243.7	1388.2	1529.1	1620.7
67.5°	5848.8	3861.6	1832.1	768.1	750.5	820.9	958.4	1095.8	1261.4	1416.4	1462.2
70°	3185.1	1899.1	782.2	584.9	637.7	701.1	835.0	930.2	1088.7	1208.5	1286.0
72.5°	1021.8	577.8	391.1	433.4	486.2	560.2	641.3	757.5	870.3	940.7	1004.2
75°	246.6	243.1	278.3	303.0	352.3	408.7	475.7	535.5	623.6	690.6	747.0
77.5°	172.6	186.7	214.9	250.2	267.8	288.9	331.2	377.0	415.8	465.1	500.3
80°	133.9	144.5	165.6	183.2	200.8	218.4	239.6	257.2	281.9	313.6	331.2
82.5°	126.8	133.9	155.0	165.6	158.6	155.0	169.1	176.2	179.7	190.3	200.8
85°	10.6	0.0	7.0	24.7	59.9	88.1	95.1	95.1	91.6	98.7	98.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	14.1	10.6
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°	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8
2.5°	9527.1	9407.4	9453.2	9509.5	9428.5	9241.8	9291.1	9269.9	9460.2	9446.1	9636.4
5°	7987.4	7800.7	7821.8	8096.7	8008.6	8103.7	7913.5	7888.8	7924.0	7941.6	7973.4
7.5°	6113.0	6088.4	6299.8	6532.3	6641.5	6528.8	6342.0	6299.8	6261.0	6183.5	6359.7
10°	4989.1	4996.1	4982.0	5158.2	5281.5	5256.8	5144.1	5130.0	5056.0	5027.8	5126.5
12.5°	4453.5	4358.4	4312.6	4256.2	4351.3	4414.8	4365.4	4330.2	4333.7	4369.0	4383.1
15°	3935.6	3875.7	3777.0	3713.6	3759.4	3727.7	3710.1	3780.6	3762.9	3755.9	3840.5
17.5°	3354.2	3403.6	3396.5	3326.0	3385.9	3361.3	3357.8	3308.4	3241.5	3192.2	3220.3
20°	2970.2	3061.8	3132.3	3135.8	3167.5	3164.0	3111.1	2959.6	2910.3	2899.7	2906.8
22.5°	2832.8	2882.1	2966.7	3086.5	3086.5	3030.1	2966.7	2790.5	2744.7	2695.4	2674.2
25°	2723.6	2818.7	2927.9	2942.0	2998.4	2945.5	2843.3	2755.3	2660.1	2593.2	2593.2
27.5°	2667.2	2772.9	2853.9	2878.6	2956.1	2913.8	2808.1	2695.4	2582.6	2579.1	2519.2
30°	2642.5	2741.2	2794.0	2853.9	2889.2	2822.2	2790.5	2670.7	2558.0	2529.8	2431.1
32.5°	2568.5	2709.5	2808.1	2794.0	2822.2	2794.0	2748.2	2649.6	2522.7	2459.3	2448.7
35°	2484.0	2624.9	2730.6	2804.6	2822.2	2762.3	2734.1	2600.2	2427.6	2395.9	2286.7
37.5°	2438.2	2522.7	2653.1	2772.9	2797.5	2765.8	2670.7	2533.3	2360.6	2325.4	2230.3
40°	2381.8	2491.0	2593.2	2691.8	2765.8	2688.3	2579.1	2445.2	2367.7	2262.0	2233.8
42.5°	2339.5	2462.8	2547.4	2656.6	2741.2	2639.0	2512.2	2420.5	2311.3	2240.9	2159.8
44°	2325.4	2438.2	2494.5	2628.4	2698.9	2621.4	2515.7	2420.5	2293.7	2230.3	2159.8
45°	2276.1	2431.1	2491.0	2610.8	2670.7	2607.3	2473.4	2378.3	2286.7	2209.1	2135.2
47.5°	2226.8	2332.5	2434.6	2529.8	2572.0	2550.9	2438.2	2321.9	2212.7	2166.9	2096.4
50°	2212.7	2318.4	2413.5	2501.6	2550.9	2508.6	2406.5	2293.7	2166.9	2092.9	2033.0
52.5°	2142.2	2272.6	2378.3	2406.5	2469.9	2445.2	2367.7	2244.4	2124.6	2061.2	2011.8
55°	2040.0	2177.4	2321.9	2357.1	2448.7	2410.0	2293.7	2177.4	2075.3	1980.1	1916.7
57.5°	2001.3	2135.2	2276.1	2321.9	2378.3	2314.8	2286.7	2163.3	2001.3	1951.9	1853.3
60°	1902.6	2071.7	2188.0	2293.7	2297.2	2279.6	2230.3	2089.3	1955.5	1863.9	1793.4
62.5°	1825.1	1983.6	2075.3	2173.9	2233.8	2184.5	2135.2	2004.8	1860.3	1758.2	1677.1
65°	1712.4	1856.8	1934.3	1994.2	2061.2	2054.1	1969.6	1874.4	1722.9	1641.9	1564.4
67.5°	1539.7	1666.5	1772.2	1828.6	1870.9	1860.3	1796.9	1730.0	1574.9	1493.9	1437.5
70°	1331.8	1462.2	1529.1	1560.8	1603.1	1624.3	1574.9	1543.2	1405.8	1300.1	1247.3
72.5°	1071.1	1155.7	1254.3	1282.5	1300.1	1314.2	1314.2	1286.0	1145.1	1102.8	1011.2
75°	789.2	856.2	930.2	930.2	961.9	965.4	972.4	954.8	849.1	792.8	771.6
77.5°	535.5	584.9	644.8	669.4	690.6	687.1	683.5	634.2	577.8	553.2	532.0
80°	348.8	398.1	426.3	458.0	479.2	475.7	482.7	447.5	422.8	380.5	387.6
82.5°	207.9	246.6	274.8	313.6	313.6	324.1	324.1	313.6	288.9	267.8	267.8
85°	98.7	130.4	148.0	172.6	186.7	190.3	169.1	144.5	119.8	109.2	119.8
87.5°	17.6	24.7	35.2	31.7	38.8	35.2	35.2	35.2	35.2	28.2	31.7
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: P530498

CATALOG NUMBER: GALN-SA5D-727-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8	10763.8
2.5°	9565.9	9742.1	9865.4	10069.7	10422.1	10703.9	10992.9	11207.8	11232.5	11295.9
5°	8089.6	8184.8	8498.3	8907.0	9196.0	9671.6	9978.1	10534.8	10742.7	10964.7
7.5°	6317.4	6472.4	6891.7	7166.5	7800.7	8396.2	9012.7	9699.8	9974.6	10006.3
10°	5327.3	5552.8	5838.2	6278.6	6623.9	7286.3	8054.4	8819.0	9125.5	9178.3
12.5°	4679.0	4967.9	5348.5	5665.6	5996.7	6574.6	7311.0	8255.2	8653.4	8892.9
15°	4055.4	4354.9	4774.1	5214.6	5507.0	6197.6	7064.3	8128.4	8646.3	8857.7
17.5°	3414.1	3692.5	4037.8	4513.4	5101.8	5877.0	7025.6	8551.2	9118.4	9365.1
20°	2864.5	3019.5	3421.2	3910.9	4647.3	5549.3	7039.7	9174.8	10006.3	10115.5
22.5°	2649.6	2684.8	2843.3	3294.3	4101.2	5214.6	7289.8	10059.2	11003.4	11362.8
25°	2484.0	2476.9	2519.2	2822.2	3703.0	5084.2	7536.5	10873.1	12109.8	12500.9
27.5°	2392.4	2321.9	2325.4	2610.8	3421.2	4872.8	7853.6	11806.8	13364.1	13536.7
30°	2346.6	2332.5	2290.2	2406.5	3114.6	4555.7	7906.4	12726.4	14104.0	14354.1
32.5°	2318.4	2181.0	2128.1	2170.4	2825.7	4210.4	8103.7	13332.4	15020.1	14910.8
35°	2177.4	2054.1	2018.9	2061.2	2621.4	4016.6	7973.4	13860.9	15707.1	15890.3
37.5°	2124.6	2015.4	1944.9	1909.7	2431.1	3854.5	7906.4	14674.8	16373.0	16813.4
40°	2075.3	1959.0	1874.4	1839.2	2283.1	3639.6	7885.3	15301.9	17141.1	17405.4
42.5°	2018.9	1944.9	1849.8	1786.3	2103.4	3424.7	7642.2	15495.7	17377.2	17662.6
44°	2001.3	1888.5	1789.9	1768.7	2033.0	3315.5	7592.8	15671.9	17581.5	18014.9
45°	1983.6	1877.9	1765.2	1737.0	2008.3	3255.6	7525.9	15714.2	17919.8	18000.8
47.5°	1934.3	1867.4	1758.2	1680.6	1955.5	3125.2	7325.1	15474.6	17574.5	17588.6
50°	1895.6	1818.1	1705.3	1553.8	1885.0	3016.0	7416.7	15386.5	16743.0	16774.7
52.5°	1853.3	1737.0	1673.6	1412.9	1768.7	2924.4	7610.4	15784.6	16838.1	16831.1
55°	1804.0	1677.1	1522.1	1293.1	1574.9	2808.1	8079.1	16570.3	17718.9	17838.7
57.5°	1726.4	1617.2	1395.2	1187.4	1353.0	2586.1	7927.5	15065.9	16302.6	16323.7
60°	1624.3	1522.1	1264.9	1106.3	1109.9	2040.0	7089.0	11739.8	12863.8	13170.3
62.5°	1525.6	1469.2	1155.7	990.1	944.3	1624.3	5993.2	9756.2	11042.2	11295.9
65°	1409.3	1271.9	1060.5	902.0	810.4	1138.0	4245.6	7289.8	8614.6	8956.4
67.5°	1261.4	1113.4	933.7	792.8	694.1	761.0	2191.5	4143.5	5485.9	5686.7
70°	1102.8	965.4	785.7	669.4	560.2	525.0	965.4	1976.6	2998.4	3206.3
72.5°	905.5	778.7	627.2	528.5	419.3	362.9	324.1	528.5	1064.1	1236.7
75°	655.3	567.3	472.1	377.0	296.0	232.5	190.3	158.6	176.2	190.3
77.5°	482.7	412.2	348.8	267.8	207.9	165.6	130.4	98.7	95.1	91.6
80°	377.0	334.7	278.3	214.9	162.1	123.3	91.6	66.9	59.9	59.9
82.5°	296.0	274.8	229.0	176.2	133.9	98.7	66.9	45.8	38.8	38.8
85°	112.7	112.7	165.6	144.5	102.2	70.5	45.8	24.7	21.1	21.1
87.5°	28.2	28.2	28.2	28.2	24.7	21.1	21.1	10.6	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)