

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: P530472

Luminaire Tested: **GALN-SA5D-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530472
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-722-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 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: 21210 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

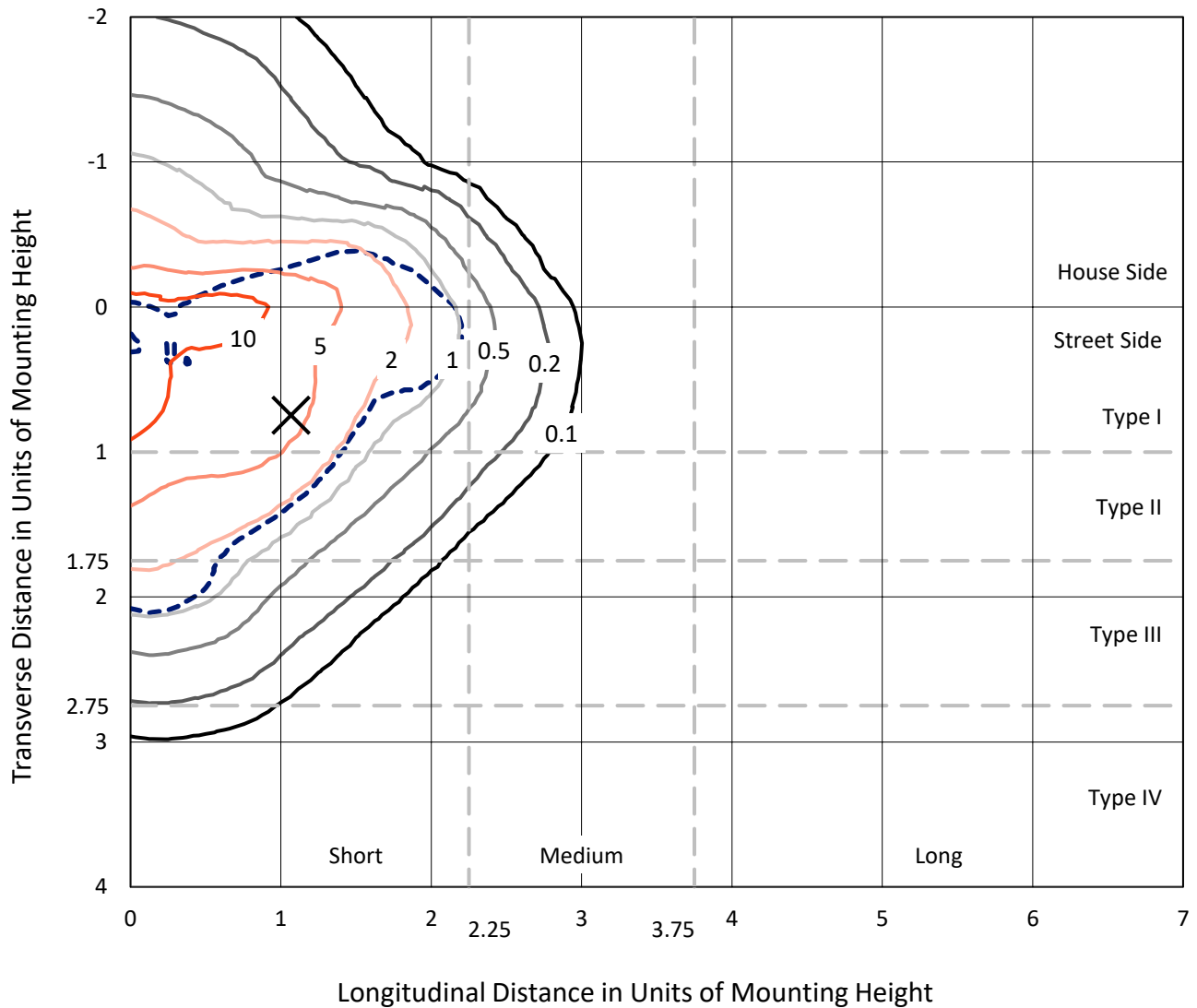
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530472
 CATALOG NUMBER: GALN-SA5D-722-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

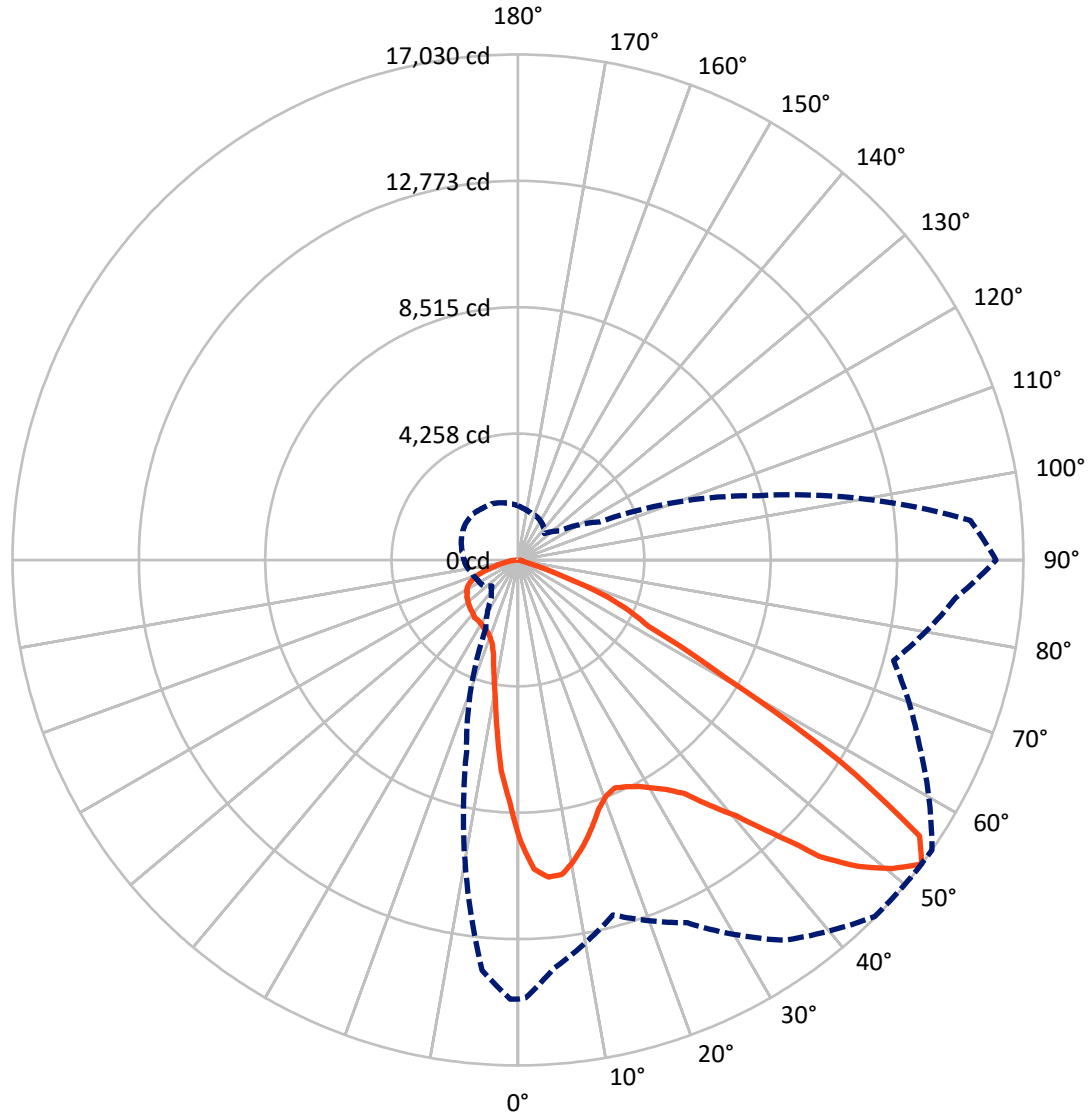
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

REPORT NUMBER: P530472
CATALOG NUMBER: GALN-SA5D-722-U-SLL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P530472
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6470.2	0.0	6470.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14739.8	0.0	14739.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	21210.0	0.0	21210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.8	3.4
10°-20°	1558.5	7.3
20°-30°	2363.2	11.1
30°-40°	3414.5	16.1
40°-50°	4562.7	21.5
50°-60°	5092.9	24.0
60°-70°	2793.7	13.2
70°-80°	604.0	2.8
80°-90°	97.7	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°	21210.0	100.0
0°-180°	21210.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530472

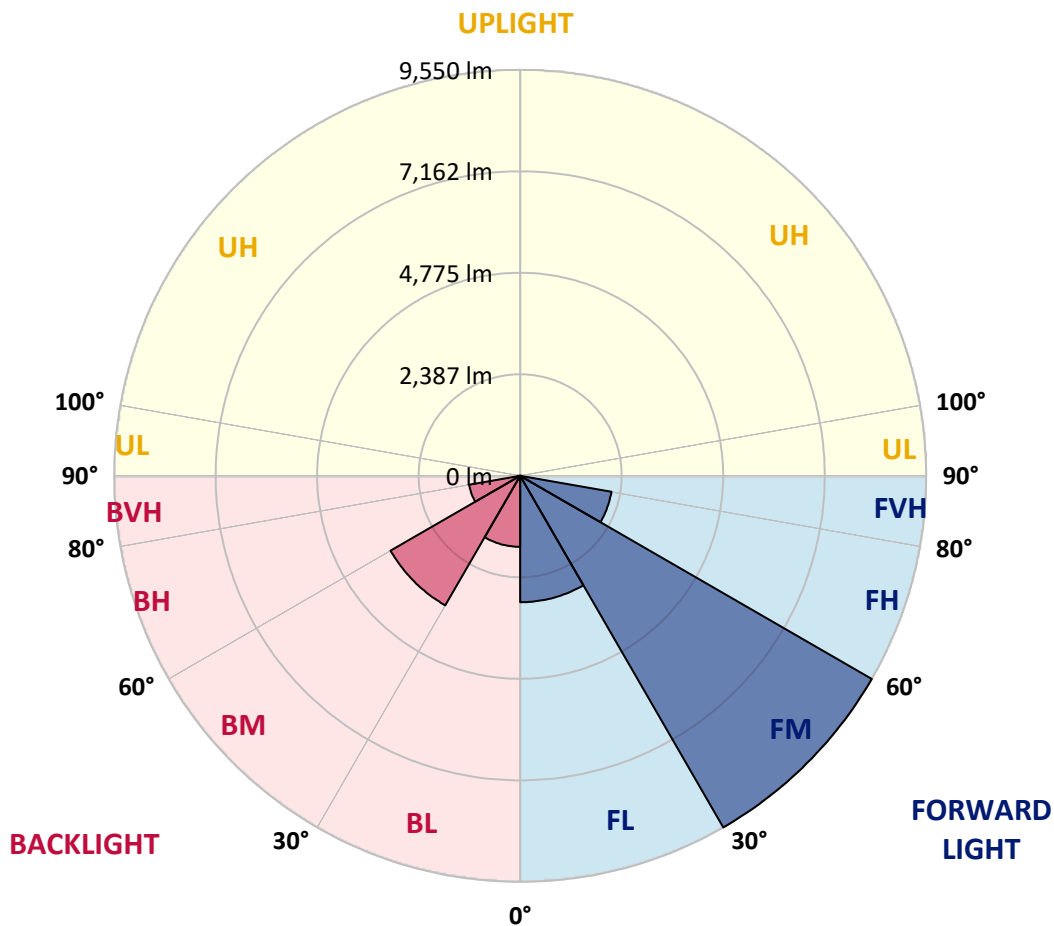
CATALOG NUMBER: GALN-SA5D-722-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2974.0	14.0			
FM (30°-60°)	9549.7	45.0			
FH (60°-80°)	2179.9	10.3			G2/5000
FVH (80°-90°)	36.2	0.2			G1/100
BL (0°-30°)	1670.5	7.9	B3/2500		
BM (30°-60°)	3520.3	16.6	B3/5000		
BH (60°-80°)	1217.8	5.7	B3/2500		G3/2500
BVH (80°-90°)	61.5	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





REPORT NUMBER: P530472

CATALOG NUMBER: GALN-SA5D-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3
2.5°	9928.9	9873.2	9922.8	10158.1	10294.4	10387.3	10446.1	10436.9	10213.9	9997.1	9997.1
5°	9637.8	9566.6	9668.8	10201.5	10737.3	10783.7	10861.1	10734.2	10405.9	10009.5	9513.9
7.5°	8795.4	8848.1	9018.4	9718.4	10415.2	10765.1	10858.0	10697.0	10164.3	9424.1	8696.3
10°	8067.7	8191.5	8584.9	9340.5	9981.6	10436.9	10539.1	10313.0	9891.8	8984.4	8334.0
12.5°	7816.8	7739.4	8176.1	8931.7	9544.9	9789.6	9836.0	9851.5	9566.6	8761.4	7968.6
15°	7785.8	7835.4	8176.1	8749.0	9126.8	9139.2	9216.6	9337.4	9374.6	8913.1	8138.9
17.5°	8231.8	8173.0	8522.9	8978.2	8798.5	8618.9	8637.5	8810.9	9117.5	9043.2	8674.7
20°	8891.5	9024.6	9300.3	9253.8	8770.7	8315.4	8318.5	8482.7	9086.6	9582.1	9421.0
22.5°	9987.8	10117.9	10322.3	9761.7	8770.7	8225.6	8120.3	8343.3	9284.8	10223.2	10263.4
25°	10988.1	11226.6	11282.3	10622.7	9210.4	8309.2	8241.1	8461.0	9483.0	10848.8	11229.7
27.5°	11898.6	11985.3	12230.0	11177.0	9455.1	8365.0	8358.8	8640.6	9733.8	11161.5	12093.7
30°	12617.1	12607.8	12747.2	11527.0	9845.3	8677.8	8377.4	8910.0	10062.1	11678.7	12892.8
32.5°	13106.5	13211.8	13506.0	12013.2	10009.5	8975.1	8739.7	9225.9	10461.6	11923.4	13456.4
35°	13967.4	14150.1	13778.5	12282.7	10529.8	9269.3	8993.7	9656.4	10659.8	12189.7	14147.0
37.5°	14778.8	14639.5	14261.6	12428.2	10867.3	9814.4	9557.3	10489.5	11276.1	12768.9	14605.4
40°	15299.1	15296.0	14624.0	12545.9	11105.8	10647.4	10632.0	11335.0	12031.8	13134.3	15119.5
42.5°	15525.2	15742.0	14772.6	12533.5	11607.5	11657.1	11969.9	12598.6	12567.6	13208.7	15107.1
44°	15834.9	15965.0	15029.7	12561.4	11942.0	12338.4	13075.5	13475.0	13035.2	13168.4	15091.6
45°	15822.5	15831.8	14664.2	12598.6	12226.9	12908.2	13567.9	14243.1	13447.1	13081.7	15296.0
47.5°	15460.2	15354.9	14354.5	12322.9	13115.7	14413.4	15023.5	15432.3	13955.0	12895.9	15042.1
50°	14744.8	14624.0	13602.0	12205.2	13301.6	15348.7	16191.1	16339.7	14416.5	12713.1	14791.2
52.5°	14794.3	14760.2	13815.7	12381.8	13487.4	15642.9	16993.2	17030.3	14939.9	13097.2	14794.3
55°	15680.1	15562.4	14428.9	12601.6	13351.1	15299.1	16482.2	16417.1	14763.3	12864.9	15066.9
57.5°	14348.3	14425.8	13580.3	11731.4	11684.9	12437.5	12957.8	12796.8	12319.8	11610.6	14017.0
60°	11576.5	11796.4	11877.0	9811.3	8817.1	8430.0	8275.2	7990.2	8070.8	9538.7	12313.6
62.5°	9928.9	9916.6	10421.4	8894.6	5775.9	4967.6	4893.2	4958.3	5887.4	9390.1	12059.7
65°	7872.5	8083.1	8238.0	7538.1	4571.2	3688.5	3685.4	4097.3	5094.5	7847.8	9736.9
67.5°	4998.5	5274.2	5466.2	4822.0	3056.7	2626.2	2555.0	3050.5	3530.6	5147.2	5862.6
70°	2818.3	2948.3	3035.0	2781.1	1944.9	1362.7	1282.2	1399.8	2133.8	3332.4	3474.8
72.5°	1087.0	1145.9	1263.6	1272.9	734.0	439.8	356.2	427.4	898.1	1319.3	1257.4
75°	167.2	179.6	254.0	303.5	210.6	161.0	170.3	176.5	250.9	340.7	284.9
77.5°	80.5	80.5	77.4	89.8	105.3	114.6	123.9	136.3	148.7	164.1	157.9
80°	52.6	52.6	52.6	61.9	77.4	92.9	105.3	111.5	117.7	130.1	123.9
82.5°	34.1	34.1	34.1	46.5	61.9	77.4	83.6	99.1	111.5	130.1	120.8
85°	18.6	18.6	18.6	31.0	46.5	65.0	61.9	49.6	27.9	3.1	6.2
87.5°	6.2	6.2	6.2	6.2	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: P530472

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3
2.5°	9736.9	9594.5	9582.1	9291.0	9030.8	8903.8	8801.6	8516.7	8578.7	8414.5	8411.4
5°	9266.2	8975.1	8504.3	8117.2	7730.1	7652.7	7315.1	7020.9	7030.2	6819.6	6856.7
7.5°	8420.7	8219.4	7646.5	7039.5	6525.4	6159.9	5840.9	5648.9	5404.2	5320.6	5277.3
10°	7884.9	7637.2	6993.0	6231.1	5655.1	5460.0	5153.4	4983.1	4732.2	4608.3	4521.6
12.5°	7649.6	7287.2	6482.0	5707.8	5323.7	5122.4	4862.3	4552.6	4255.3	4140.7	3982.7
15°	7674.3	7240.8	6333.3	5497.2	5035.7	4645.5	4413.2	4069.4	3765.9	3564.6	3450.0
17.5°	8049.1	7522.6	6401.5	5336.1	4673.4	4184.0	3728.8	3357.1	3115.6	2963.8	2926.7
20°	8934.8	8219.4	6516.1	5076.0	4311.0	3700.9	3140.3	2753.2	2567.4	2564.3	2567.4
22.5°	9671.9	8962.7	6748.3	4921.1	3948.7	3081.5	2524.0	2400.2	2363.0	2440.4	2449.7
25°	10666.0	9798.9	7147.9	4840.6	3614.2	2626.2	2282.5	2236.0	2232.9	2332.0	2335.1
27.5°	11684.9	10529.8	7386.3	4605.2	3273.5	2390.9	2136.9	2127.6	2177.2	2282.5	2273.2
30°	12378.7	11143.0	7816.8	4323.4	2870.9	2183.4	2078.1	2090.5	2158.6	2239.1	2251.5
32.5°	13187.0	11746.9	7928.3	4168.5	2623.1	2009.9	1935.6	1963.5	2050.2	2177.2	2245.3
35°	14113.0	12174.3	8098.6	3958.0	2530.2	1876.8	1839.6	1870.6	1975.9	2059.5	2133.8
37.5°	14797.4	12929.9	8129.6	3793.8	2428.0	1802.4	1743.6	1845.8	1907.7	2025.4	2062.6
40°	15305.3	13478.1	8210.1	3691.6	2347.5	1706.4	1706.4	1774.6	1858.2	1966.6	2040.9
42.5°	15630.5	13877.6	8269.0	3598.7	2192.7	1678.6	1663.1	1731.2	1842.7	1948.0	1982.1
44°	15828.7	14047.9	8210.1	3512.0	2149.3	1644.5	1644.5	1703.3	1790.1	1913.9	1954.2
45°	15878.3	14261.6	8080.0	3508.9	2096.7	1604.2	1598.0	1709.5	1768.4	1920.1	1944.9
47.5°	16070.3	14524.9	8095.5	3409.8	1969.7	1508.2	1616.6	1666.2	1718.8	1852.0	1935.6
50°	16064.1	14689.0	8061.5	3264.2	1876.8	1399.8	1579.5	1635.2	1687.9	1824.1	1858.2
52.5°	16107.4	15302.2	8374.3	3032.0	1709.5	1260.5	1455.6	1579.5	1644.5	1759.1	1830.3
55°	16085.8	15652.2	8684.0	2858.5	1474.2	1176.9	1350.3	1495.8	1588.8	1709.5	1743.6
57.5°	14692.1	13834.2	8036.7	2533.3	1220.2	1077.8	1201.6	1409.1	1526.8	1650.7	1694.1
60°	12003.9	10662.9	6627.6	1864.4	1003.4	991.0	1118.0	1381.3	1430.8	1539.2	1613.5
62.5°	11093.4	9352.9	5255.6	1424.6	857.9	907.4	1031.3	1248.1	1325.5	1458.7	1526.8
65°	8680.9	6212.6	3254.9	963.2	755.7	814.5	932.2	1093.2	1220.2	1344.1	1424.6
67.5°	5141.0	3394.3	1610.4	675.1	659.7	721.6	842.4	963.2	1108.7	1245.0	1285.3
70°	2799.7	1669.3	687.5	514.1	560.6	616.3	734.0	817.6	957.0	1062.3	1130.4
72.5°	898.1	507.9	343.8	380.9	427.4	492.4	563.7	665.9	765.0	826.9	882.6
75°	216.8	213.7	244.7	266.3	309.7	359.3	418.1	470.7	548.2	607.0	656.6
77.5°	151.8	164.1	188.9	219.9	235.4	254.0	291.1	331.4	365.4	408.8	439.8
80°	117.7	127.0	145.6	161.0	176.5	192.0	210.6	226.1	247.8	275.6	291.1
82.5°	111.5	117.7	136.3	145.6	139.4	136.3	148.7	154.8	157.9	167.2	176.5
85°	9.3	0.0	6.2	21.7	52.6	77.4	83.6	83.6	80.5	86.7	86.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	12.4	9.3
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°	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3
2.5°	8374.3	8269.0	8309.2	8358.8	8287.5	8123.4	8166.8	8148.2	8315.4	8303.0	8470.3
5°	7020.9	6856.7	6875.3	7116.9	7039.5	7123.1	6955.8	6934.2	6965.1	6980.6	7008.5
7.5°	5373.3	5351.6	5537.4	5741.8	5837.8	5738.7	5574.6	5537.4	5503.3	5435.2	5590.1
10°	4385.3	4391.5	4379.1	4534.0	4642.4	4620.7	4521.6	4509.2	4444.2	4419.4	4506.1
12.5°	3914.6	3831.0	3790.7	3741.2	3824.8	3880.5	3837.2	3806.2	3809.3	3840.3	3852.7
15°	3459.3	3406.7	3320.0	3264.2	3304.5	3276.6	3261.1	3323.1	3307.6	3301.4	3375.7
17.5°	2948.3	2991.7	2985.5	2923.6	2976.2	2954.5	2951.4	2908.1	2849.2	2805.9	2830.6
20°	2610.8	2691.3	2753.2	2756.3	2784.2	2781.1	2734.6	2601.5	2558.1	2548.8	2555.0
22.5°	2490.0	2533.3	2607.7	2713.0	2713.0	2663.4	2607.7	2452.8	2412.6	2369.2	2350.6
25°	2394.0	2477.6	2573.6	2586.0	2635.5	2589.1	2499.3	2421.8	2338.2	2279.4	2279.4
27.5°	2344.4	2437.3	2508.6	2530.2	2598.4	2561.2	2468.3	2369.2	2270.1	2267.0	2214.3
30°	2322.7	2409.5	2455.9	2508.6	2539.5	2480.7	2452.8	2347.5	2248.4	2223.6	2136.9
32.5°	2257.7	2381.6	2468.3	2455.9	2480.7	2455.9	2415.7	2328.9	2217.4	2161.7	2152.4
35°	2183.4	2307.3	2400.2	2465.2	2480.7	2428.0	2403.3	2285.6	2133.8	2106.0	2009.9
37.5°	2143.1	2217.4	2332.0	2437.3	2459.0	2431.1	2347.5	2226.7	2075.0	2044.0	1960.4
40°	2093.6	2189.6	2279.4	2366.1	2431.1	2363.0	2267.0	2149.3	2081.2	1988.3	1963.5
42.5°	2056.4	2164.8	2239.1	2335.1	2409.5	2319.6	2208.2	2127.6	2031.6	1969.7	1898.5
44°	2044.0	2143.1	2192.7	2310.4	2372.3	2304.2	2211.2	2127.6	2016.1	1960.4	1898.5
45°	2000.7	2136.9	2189.6	2294.9	2347.5	2291.8	2174.1	2090.5	2009.9	1941.8	1876.8
47.5°	1957.3	2050.2	2140.0	2223.6	2260.8	2242.2	2143.1	2040.9	1944.9	1904.6	1842.7
50°	1944.9	2037.8	2121.4	2198.9	2242.2	2205.1	2115.2	2016.1	1904.6	1839.6	1787.0
52.5°	1883.0	1997.6	2090.5	2115.2	2171.0	2149.3	2081.2	1972.8	1867.5	1811.7	1768.4
55°	1793.2	1913.9	2040.9	2071.9	2152.4	2118.3	2016.1	1913.9	1824.1	1740.5	1684.8
57.5°	1759.1	1876.8	2000.7	2040.9	2090.5	2034.7	2009.9	1901.6	1759.1	1715.7	1629.0
60°	1672.4	1821.0	1923.2	2016.1	2019.2	2003.8	1960.4	1836.5	1718.8	1638.3	1576.4
62.5°	1604.2	1743.6	1824.1	1910.8	1963.5	1920.1	1876.8	1762.2	1635.2	1545.4	1474.2
65°	1505.1	1632.1	1700.2	1752.9	1811.7	1805.5	1731.2	1647.6	1514.4	1443.2	1375.1
67.5°	1353.4	1464.9	1557.8	1607.3	1644.5	1635.2	1579.5	1520.6	1384.4	1313.1	1263.6
70°	1170.7	1285.3	1344.1	1372.0	1409.1	1427.7	1384.4	1356.5	1235.7	1142.8	1096.3
72.5°	941.5	1015.8	1102.5	1127.3	1142.8	1155.2	1155.2	1130.4	1006.5	969.4	888.8
75°	693.7	752.6	817.6	817.6	845.5	848.6	854.8	839.3	746.4	696.8	678.2
77.5°	470.7	514.1	566.7	588.4	607.0	603.9	600.8	557.5	507.9	486.2	467.6
80°	306.6	350.0	374.7	402.6	421.2	418.1	424.3	393.3	371.6	334.5	340.7
82.5°	182.7	216.8	241.6	275.6	275.6	284.9	284.9	275.6	254.0	235.4	235.4
85°	86.7	114.6	130.1	151.8	164.1	167.2	148.7	127.0	105.3	96.0	105.3
87.5°	15.5	21.7	31.0	27.9	34.1	31.0	31.0	31.0	31.0	24.8	27.9
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: P530472

CATALOG NUMBER: GALN-SA5D-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3	9461.3
2.5°	8408.3	8563.2	8671.6	8851.2	9160.9	9408.7	9662.6	9851.5	9873.2	9928.9
5°	7110.7	7194.3	7469.9	7829.2	8083.1	8501.2	8770.7	9260.0	9442.7	9637.8
7.5°	5552.9	5689.2	6057.7	6299.3	6856.7	7380.1	7922.1	8526.0	8767.6	8795.4
10°	4682.6	4880.9	5131.7	5518.8	5822.3	6404.6	7079.7	7751.8	8021.2	8067.7
12.5°	4112.8	4366.8	4701.2	4980.0	5271.1	5779.0	6426.3	7256.2	7606.2	7816.8
15°	3564.6	3827.9	4196.4	4583.5	4840.6	5447.6	6209.5	7144.8	7600.0	7785.8
17.5°	3001.0	3245.6	3549.1	3967.2	4484.4	5165.8	6175.4	7516.4	8015.0	8231.8
20°	2517.9	2654.1	3007.2	3437.7	4084.9	4877.8	6187.8	8064.6	8795.4	8891.5
22.5°	2328.9	2359.9	2499.3	2895.7	3604.9	4583.5	6407.7	8841.9	9671.9	9987.8
25°	2183.4	2177.2	2214.3	2480.7	3254.9	4469.0	6624.5	9557.3	10644.4	10988.1
27.5°	2102.9	2040.9	2044.0	2294.9	3007.2	4283.1	6903.2	10378.0	11746.9	11898.6
30°	2062.6	2050.2	2013.0	2115.2	2737.7	4004.4	6949.6	11186.3	12397.2	12617.1
32.5°	2037.8	1917.0	1870.6	1907.7	2483.8	3700.9	7123.1	11719.0	13202.5	13106.5
35°	1913.9	1805.5	1774.6	1811.7	2304.2	3530.6	7008.5	12183.6	13806.4	13967.4
37.5°	1867.5	1771.5	1709.5	1678.6	2136.9	3388.1	6949.6	12899.0	14391.7	14778.8
40°	1824.1	1721.9	1647.6	1616.6	2006.8	3199.2	6931.1	13450.2	15066.9	15299.1
42.5°	1774.6	1709.5	1625.9	1570.2	1848.9	3010.3	6717.4	13620.6	15274.3	15525.2
44°	1759.1	1660.0	1573.3	1554.7	1787.0	2914.3	6674.0	13775.4	15454.0	15834.9
45°	1743.6	1650.7	1551.6	1526.8	1765.3	2861.6	6615.2	13812.6	15751.3	15822.5
47.5°	1700.2	1641.4	1545.4	1477.3	1718.8	2747.0	6438.6	13602.0	15447.8	15460.2
50°	1666.2	1598.0	1498.9	1365.8	1656.9	2651.0	6519.2	13524.5	14716.9	14744.8
52.5°	1629.0	1526.8	1471.1	1241.9	1554.7	2570.5	6689.5	13874.5	14800.5	14794.3
55°	1585.7	1474.2	1337.9	1136.6	1384.4	2468.3	7101.4	14565.1	15574.8	15680.1
57.5°	1517.5	1421.5	1226.4	1043.7	1189.2	2273.2	6968.2	13242.7	14329.8	14348.3
60°	1427.7	1337.9	1111.8	972.5	975.6	1793.2	6231.1	10319.2	11307.1	11576.5
62.5°	1341.0	1291.4	1015.8	870.3	830.0	1427.7	5268.0	8575.6	9706.0	9928.9
65°	1238.8	1118.0	932.2	792.8	712.3	1000.3	3731.9	6407.7	7572.1	7872.5
67.5°	1108.7	978.6	820.7	696.8	610.1	668.9	1926.3	3642.1	4822.0	4998.5
70°	969.4	848.6	690.6	588.4	492.4	461.5	848.6	1737.4	2635.5	2818.3
72.5°	795.9	684.4	551.3	464.5	368.5	319.0	284.9	464.5	935.3	1087.0
75°	576.0	498.6	415.0	331.4	260.1	204.4	167.2	139.4	154.8	167.2
77.5°	424.3	362.3	306.6	235.4	182.7	145.6	114.6	86.7	83.6	80.5
80°	331.4	294.2	244.7	188.9	142.5	108.4	80.5	58.8	52.6	52.6
82.5°	260.1	241.6	201.3	154.8	117.7	86.7	58.8	40.3	34.1	34.1
85°	99.1	99.1	145.6	127.0	89.8	61.9	40.3	21.7	18.6	18.6
87.5°	24.8	24.8	24.8	24.8	21.7	18.6	18.6	9.3	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)