

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: P529926

Luminaire Tested: **GALN-SA5A-760-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529926
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-SA5A-760-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA 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: 17056 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

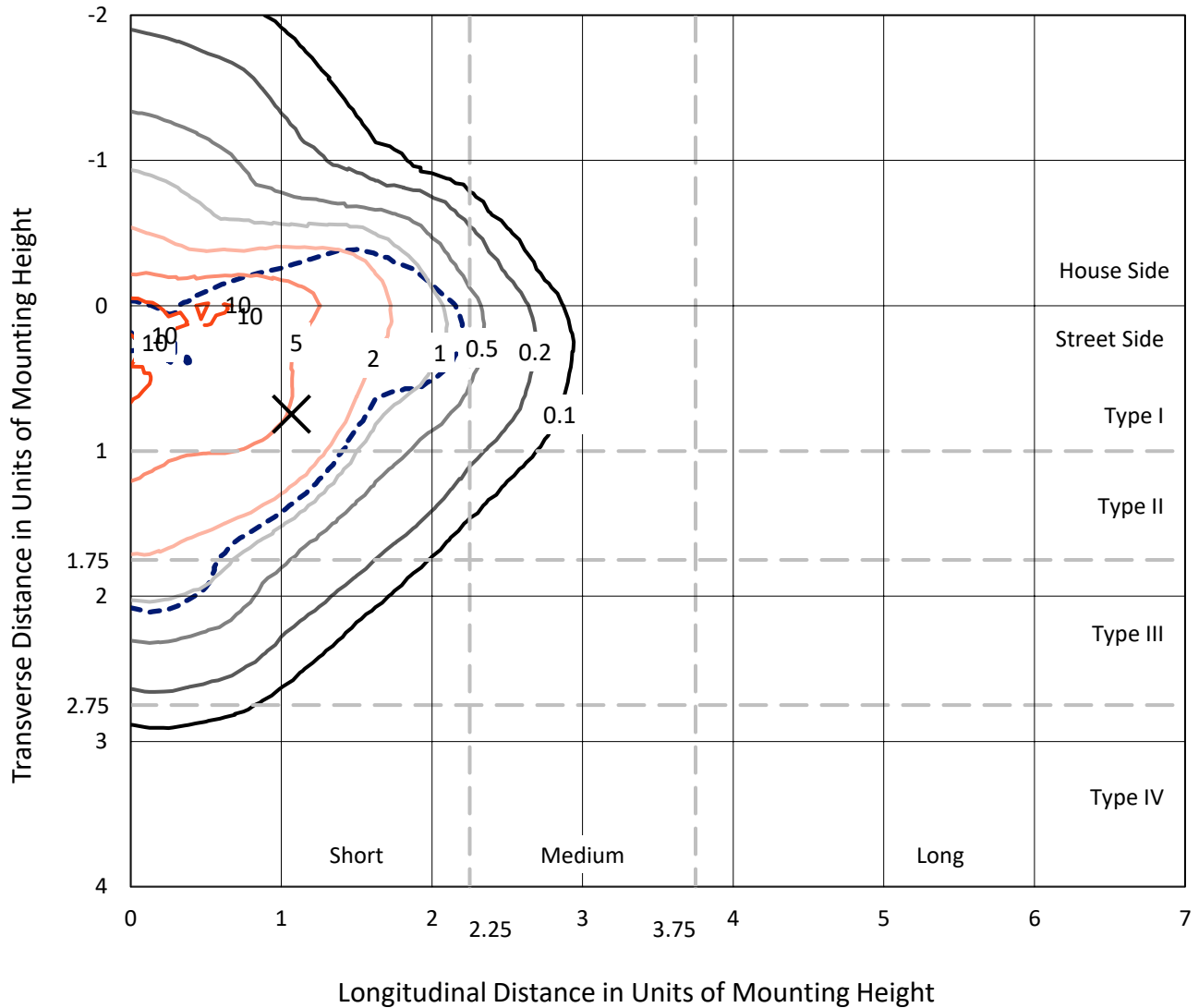
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

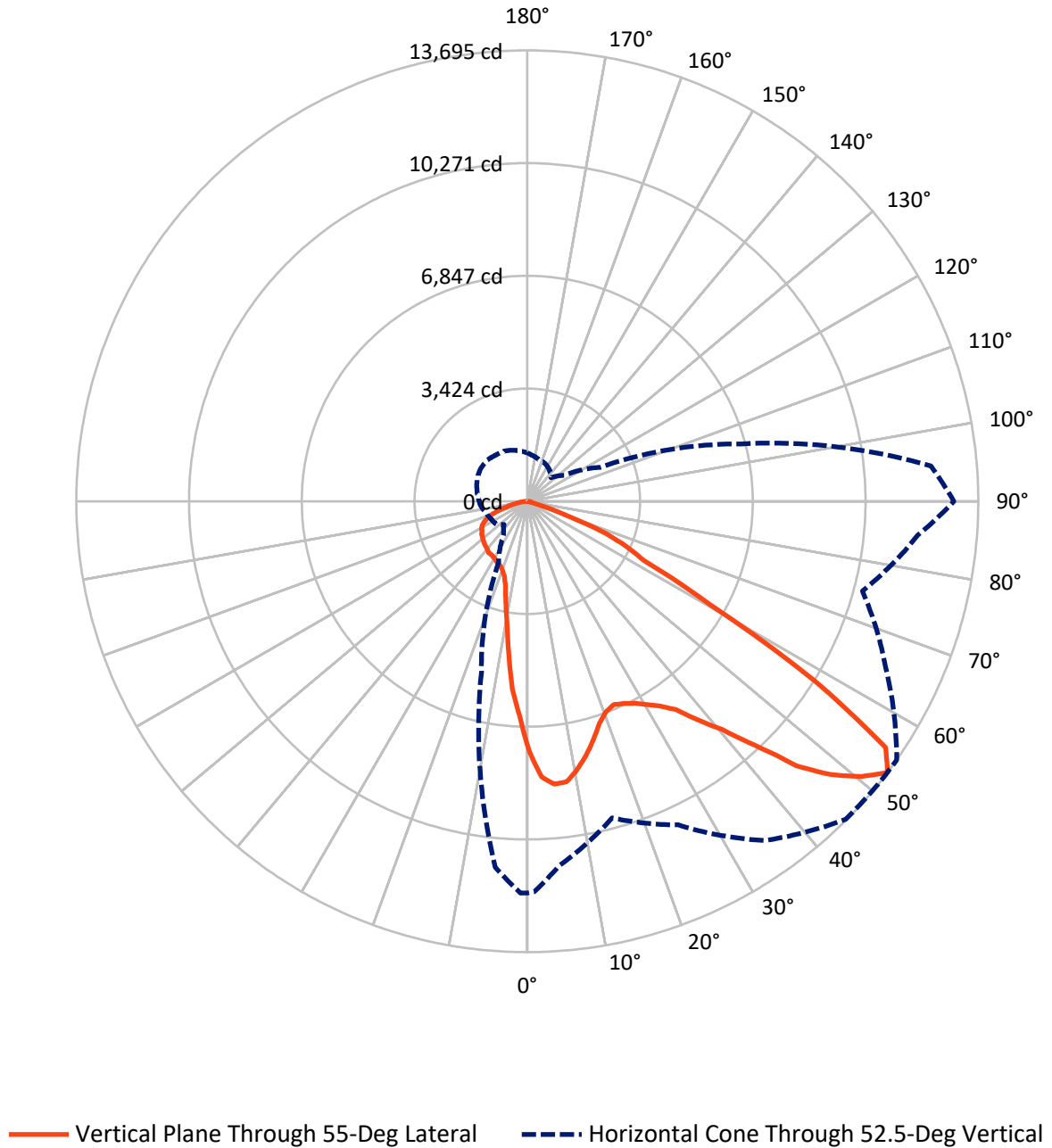
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	5203.0	0.0	5203.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	11853.0	0.0	11853.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	17056.0	0.0	17056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.3	3.4
10°-20°	1253.3	7.3
20°-30°	1900.4	11.1
30°-40°	2745.7	16.1
40°-50°	3669.1	21.5
50°-60°	4095.5	24.0
60°-70°	2246.6	13.2
70°-80°	485.7	2.8
80°-90°	78.6	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°	17056.0	100.0
0°-180°	17056.0	100.0

Coefficient of Utilization



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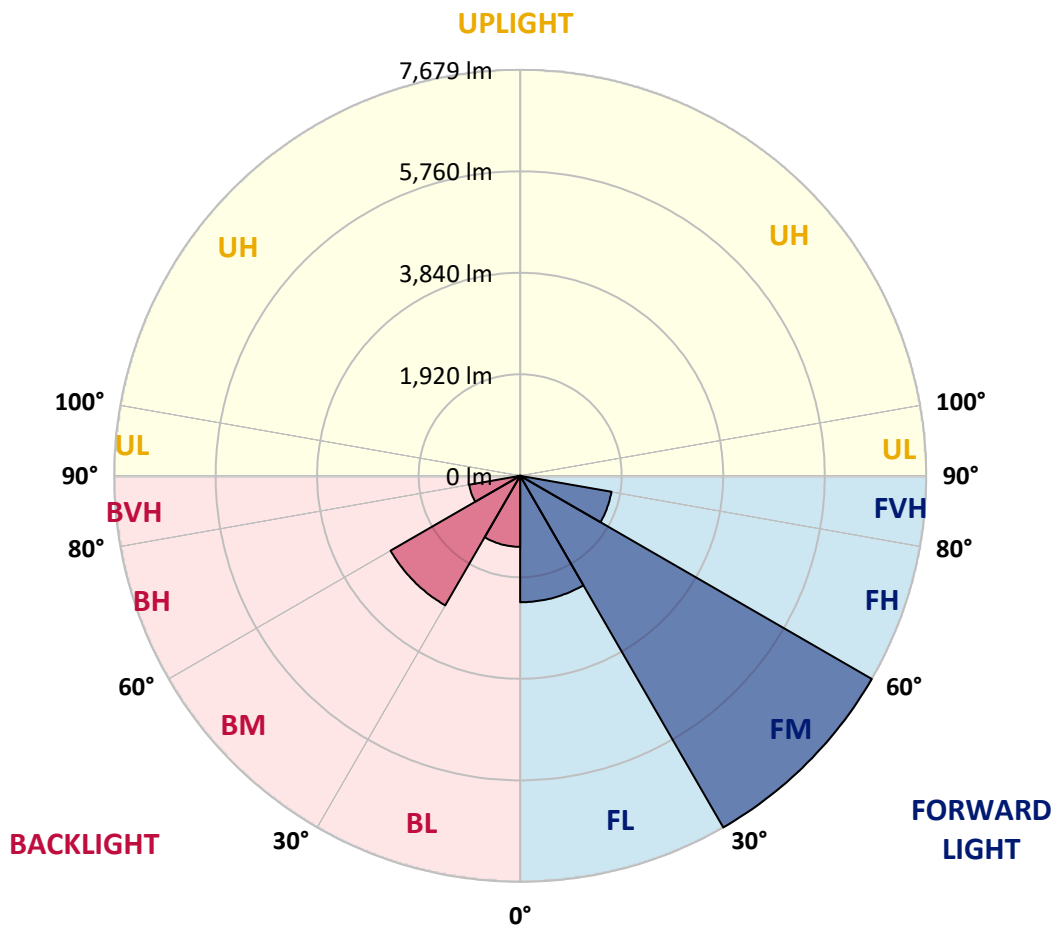
CATALOG NUMBER: GALN-SA5A-760-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.6	14.0			
FM (30°-60°)	7679.4	45.0			
FH (60°-80°)	1752.9	10.3			G1/1800
FVH (80°-90°)	29.1	0.2			G1/100
BL (0°-30°)	1343.3	7.9	B3/2500		
BM (30°-60°)	2830.9	16.6	B3/5000		
BH (60°-80°)	979.3	5.7	B2/1000		G2/1000
BVH (80°-90°)	49.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3
2.5°	7984.4	7939.5	7979.4	8168.6	8278.2	8352.9	8400.3	8392.8	8213.5	8039.1	8039.1
5°	7750.3	7693.0	7775.2	8203.5	8634.4	8671.7	8734.0	8631.9	8367.9	8049.1	7650.6
7.5°	7072.9	7115.2	7252.2	7815.0	8375.4	8656.8	8731.5	8602.0	8173.6	7578.4	6993.2
10°	6487.6	6587.2	6903.5	7511.2	8026.7	8392.8	8475.0	8293.2	7954.5	7224.8	6701.8
12.5°	6285.9	6223.6	6574.8	7182.4	7675.5	7872.3	7909.6	7922.1	7693.0	7045.5	6407.9
15°	6261.0	6300.8	6574.8	7035.5	7339.3	7349.3	7411.6	7508.7	7538.6	7167.5	6544.9
17.5°	6619.6	6572.3	6853.7	7219.8	7075.3	6930.9	6945.8	7085.3	7331.9	7272.1	6975.7
20°	7150.1	7257.1	7478.8	7441.4	7052.9	6686.8	6689.3	6821.3	7307.0	7705.4	7575.9
22.5°	8031.7	8136.3	8300.6	7849.9	7052.9	6614.6	6529.9	6709.2	7466.3	8220.9	8253.3
25°	8836.1	9027.8	9072.7	8542.2	7406.6	6681.9	6627.1	6803.9	7625.7	8724.0	9030.3
27.5°	9568.3	9638.0	9834.7	8988.0	7603.3	6726.7	6721.7	6948.3	7827.5	8975.5	9725.2
30°	10146.1	10138.6	10250.7	9269.4	7917.1	6978.2	6736.6	7165.0	8091.4	9391.5	10367.7
32.5°	10539.5	10624.2	10860.8	9660.4	8049.1	7217.3	7028.0	7419.0	8412.7	9588.2	10821.0
35°	11231.9	11378.8	11080.0	9877.1	8467.5	7453.9	7232.2	7765.2	8572.1	9802.4	11376.3
37.5°	11884.4	11772.3	11468.5	9994.1	8739.0	7892.2	7685.5	8435.1	9067.7	10268.1	11744.9
40°	12302.8	12300.3	11759.9	10088.8	8930.7	8562.1	8549.7	9115.0	9675.4	10562.0	12158.3
42.5°	12484.6	12658.9	11879.4	10078.8	9334.2	9374.0	9625.6	10131.1	10106.2	10621.7	12148.4
44°	12733.6	12838.2	12086.1	10101.2	9603.1	9921.9	10514.6	10835.9	10482.3	10589.4	12135.9
45°	12723.7	12731.1	11792.2	10131.1	9832.3	10380.2	10910.6	11453.5	10813.5	10519.6	12300.3
47.5°	12432.3	12347.6	11543.2	9909.5	10547.0	11590.5	12081.1	12409.9	11221.9	10370.2	12096.1
50°	11857.0	11759.9	10938.0	9814.8	10696.4	12342.6	13020.0	13139.6	11593.0	10223.3	11894.3
52.5°	11896.8	11869.4	11109.9	9956.8	10845.9	12579.2	13665.0	13694.9	12013.9	10532.1	11896.8
55°	12609.1	12514.5	11603.0	10133.6	10736.3	12302.8	13254.1	13201.8	11871.9	10345.3	12116.0
57.5°	11538.2	11600.5	10920.6	9433.8	9396.4	10001.6	10420.0	10290.5	9907.0	9336.7	11271.7
60°	9309.3	9486.1	9550.8	7889.7	7090.3	6779.0	6654.5	6425.3	6490.1	7670.6	9902.0
62.5°	7984.4	7974.4	8380.3	7152.5	4644.7	3994.7	3934.9	3987.2	4734.3	7551.0	9697.8
65°	6330.7	6500.0	6624.6	6061.7	3675.9	2966.1	2963.6	3294.9	4096.8	6310.8	7829.9
67.5°	4019.6	4241.2	4395.6	3877.6	2458.1	2111.9	2054.6	2453.1	2839.1	4139.1	4714.4
70°	2266.3	2370.9	2440.6	2236.4	1564.0	1095.8	1031.0	1125.7	1715.9	2679.7	2794.3
72.5°	874.1	921.5	1016.1	1023.6	590.2	353.6	286.4	343.7	722.2	1060.9	1011.1
75°	134.5	144.4	204.2	244.1	169.3	129.5	137.0	142.0	201.7	273.9	229.1
77.5°	64.8	64.8	62.3	72.2	84.7	92.1	99.6	109.6	119.5	132.0	127.0
80°	42.3	42.3	42.3	49.8	62.3	74.7	84.7	89.7	94.6	104.6	99.6
82.5°	27.4	27.4	27.4	37.4	49.8	62.3	67.2	79.7	89.7	104.6	97.1
85°	14.9	14.9	14.9	24.9	37.4	52.3	49.8	39.8	22.4	2.5	5.0
87.5°	5.0	5.0	5.0	5.0	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°	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3
2.5°	7829.9	7715.4	7705.4	7471.3	7262.1	7160.0	7077.8	6848.7	6898.5	6766.5	6764.0
5°	7451.4	7217.3	6838.7	6527.4	6216.1	6153.9	5882.4	5645.8	5653.3	5483.9	5513.8
7.5°	6771.5	6609.6	6148.9	5660.8	5247.4	4953.5	4697.0	4542.6	4345.8	4278.6	4243.7
10°	6340.7	6141.4	5623.4	5010.8	4547.5	4390.6	4144.1	4007.1	3805.4	3705.8	3636.0
12.5°	6151.4	5860.0	5212.5	4589.9	4281.1	4119.2	3910.0	3660.9	3421.9	3329.7	3202.7
15°	6171.3	5822.6	5093.0	4420.5	4049.5	3735.7	3548.9	3272.4	3028.4	2866.5	2774.4
17.5°	6472.7	6049.3	5147.7	4291.0	3758.1	3364.6	2998.5	2699.6	2505.4	2383.4	2353.5
20°	7184.9	6609.6	5239.9	4081.8	3466.7	2976.1	2525.3	2214.0	2064.6	2062.1	2064.6
22.5°	7777.6	7207.3	5426.7	3957.3	3175.3	2478.0	2029.7	1930.1	1900.2	1962.5	1969.9
25°	8577.1	7879.8	5747.9	3892.6	2906.3	2111.9	1835.5	1798.1	1795.6	1875.3	1877.8
27.5°	9396.4	8467.5	5939.7	3703.3	2632.4	1922.6	1718.4	1710.9	1750.8	1835.5	1828.0
30°	9954.3	8960.6	6285.9	3476.7	2308.6	1755.8	1671.1	1681.0	1735.8	1800.6	1810.6
32.5°	10604.3	9446.2	6375.5	3352.1	2109.4	1616.3	1556.5	1578.9	1648.7	1750.8	1805.6
35°	11348.9	9789.9	6512.5	3182.8	2034.7	1509.2	1479.3	1504.2	1588.9	1656.1	1715.9
37.5°	11899.3	10397.6	6537.4	3050.8	1952.5	1449.4	1402.1	1484.3	1534.1	1628.7	1658.6
40°	12307.8	10838.4	6602.2	2968.6	1887.8	1372.2	1372.2	1427.0	1494.3	1581.4	1641.2
42.5°	12569.3	11159.7	6649.5	2893.9	1763.2	1349.8	1337.4	1392.2	1481.8	1566.5	1593.9
44°	12728.6	11296.6	6602.2	2824.2	1728.4	1322.4	1322.4	1369.7	1439.5	1539.1	1571.5
45°	12768.5	11468.5	6497.6	2821.7	1686.0	1290.0	1285.1	1374.7	1422.0	1544.1	1564.0
47.5°	12922.9	11680.2	6510.0	2742.0	1583.9	1212.8	1300.0	1339.9	1382.2	1489.3	1556.5
50°	12917.9	11812.2	6482.6	2624.9	1509.2	1125.7	1270.1	1315.0	1357.3	1466.9	1494.3
52.5°	12952.8	12305.3	6734.2	2438.1	1374.7	1013.6	1170.5	1270.1	1322.4	1414.6	1471.9
55°	12935.3	12586.7	6983.2	2298.7	1185.4	946.4	1085.8	1202.9	1277.6	1374.7	1402.1
57.5°	11814.6	11124.8	6462.7	2037.2	981.2	866.7	966.3	1133.2	1227.8	1327.4	1362.3
60°	9652.9	8574.6	5329.5	1499.2	806.9	796.9	899.0	1110.7	1150.6	1237.7	1297.5
62.5°	8920.8	7521.1	4226.3	1145.6	689.9	729.7	829.3	1003.6	1065.9	1173.0	1227.8
65°	6980.7	4995.8	2617.5	774.5	607.7	655.0	749.6	879.1	981.2	1080.9	1145.6
67.5°	4134.1	2729.5	1295.0	542.9	530.5	580.3	677.4	774.5	891.6	1001.2	1033.5
70°	2251.4	1342.3	552.9	413.4	450.8	495.6	590.2	657.5	769.5	854.2	909.0
72.5°	722.2	408.4	276.4	306.3	343.7	396.0	453.3	535.4	615.1	664.9	709.8
75°	174.3	171.8	196.7	214.2	249.0	288.9	336.2	378.5	440.8	488.1	528.0
77.5°	122.0	132.0	151.9	176.8	189.3	204.2	234.1	266.5	293.9	328.7	353.6
80°	94.6	102.1	117.1	129.5	142.0	154.4	169.3	181.8	199.2	221.6	234.1
82.5°	89.7	94.6	109.6	117.1	112.1	109.6	119.5	124.5	127.0	134.5	142.0
85°	7.5	0.0	5.0	17.4	42.3	62.3	67.2	67.2	64.8	69.7	69.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	10.0	7.5
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°	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3
2.5°	6734.2	6649.5	6681.9	6721.7	6664.4	6532.4	6567.3	6552.3	6686.8	6676.9	6811.4
5°	5645.8	5513.8	5528.8	5723.0	5660.8	5728.0	5593.5	5576.1	5601.0	5613.5	5635.9
7.5°	4320.9	4303.5	4452.9	4617.3	4694.5	4614.8	4482.8	4452.9	4425.5	4370.7	4495.2
10°	3526.5	3531.4	3521.5	3646.0	3733.2	3715.7	3636.0	3626.1	3573.8	3553.9	3623.6
12.5°	3147.9	3080.7	3048.3	3008.5	3075.7	3120.5	3085.7	3060.8	3063.2	3088.1	3098.1
15°	2781.8	2739.5	2669.8	2624.9	2657.3	2634.9	2622.4	2672.2	2659.8	2654.8	2714.6
17.5°	2370.9	2405.8	2400.8	2351.0	2393.3	2375.9	2373.4	2338.5	2291.2	2256.3	2276.3
20°	2099.4	2164.2	2214.0	2216.5	2238.9	2236.4	2199.1	2092.0	2057.1	2049.6	2054.6
22.5°	2002.3	2037.2	2097.0	2181.6	2181.6	2141.8	2097.0	1972.4	1940.1	1905.2	1890.2
25°	1925.1	1992.4	2069.6	2079.5	2119.4	2082.0	2009.8	1947.5	1880.3	1833.0	1833.0
27.5°	1885.3	1960.0	2017.3	2034.7	2089.5	2059.6	1984.9	1905.2	1825.5	1823.0	1780.7
30°	1867.8	1937.6	1974.9	2017.3	2042.2	1994.8	1972.4	1887.8	1808.1	1788.1	1718.4
32.5°	1815.5	1915.1	1984.9	1974.9	1994.8	1974.9	1942.5	1872.8	1783.2	1738.3	1730.9
35°	1755.8	1855.4	1930.1	1982.4	1994.8	1952.5	1932.6	1837.9	1715.9	1693.5	1616.3
37.5°	1723.4	1783.2	1875.3	1960.0	1977.4	1955.0	1887.8	1790.6	1668.6	1643.7	1576.4
40°	1683.5	1760.7	1833.0	1902.7	1955.0	1900.2	1823.0	1728.4	1673.6	1598.9	1578.9
42.5°	1653.7	1740.8	1800.6	1877.8	1937.6	1865.3	1775.7	1710.9	1633.7	1583.9	1526.6
44°	1643.7	1723.4	1763.2	1857.9	1907.7	1852.9	1778.2	1710.9	1621.3	1576.4	1526.6
45°	1608.8	1718.4	1760.7	1845.4	1887.8	1842.9	1748.3	1681.0	1616.3	1561.5	1509.2
47.5°	1574.0	1648.7	1720.9	1788.1	1818.0	1803.1	1723.4	1641.2	1564.0	1531.6	1481.8
50°	1564.0	1638.7	1706.0	1768.2	1803.1	1773.2	1701.0	1621.3	1531.6	1479.3	1437.0
52.5°	1514.2	1606.3	1681.0	1701.0	1745.8	1728.4	1673.6	1586.4	1501.7	1456.9	1422.0
55°	1442.0	1539.1	1641.2	1666.1	1730.9	1703.5	1621.3	1539.1	1466.9	1399.6	1354.8
57.5°	1414.6	1509.2	1608.8	1641.2	1681.0	1636.2	1616.3	1529.1	1414.6	1379.7	1310.0
60°	1344.8	1464.4	1546.6	1621.3	1623.8	1611.3	1576.4	1476.8	1382.2	1317.4	1267.6
62.5°	1290.0	1402.1	1466.9	1536.6	1578.9	1544.1	1509.2	1417.1	1315.0	1242.7	1185.4
65°	1210.4	1312.5	1367.3	1409.6	1456.9	1451.9	1392.2	1324.9	1217.8	1160.5	1105.8
67.5°	1088.3	1178.0	1252.7	1292.5	1322.4	1315.0	1270.1	1222.8	1113.2	1055.9	1016.1
70°	941.4	1033.5	1080.9	1103.3	1133.2	1148.1	1113.2	1090.8	993.7	919.0	881.6
72.5°	757.1	816.9	886.6	906.5	919.0	928.9	928.9	909.0	809.4	779.5	714.8
75°	557.9	605.2	657.5	657.5	679.9	682.4	687.4	674.9	600.2	560.3	545.4
77.5°	378.5	413.4	455.8	473.2	488.1	485.6	483.1	448.3	408.4	391.0	376.1
80°	246.6	281.4	301.3	323.8	338.7	336.2	341.2	316.3	298.9	269.0	273.9
82.5°	146.9	174.3	194.3	221.6	221.6	229.1	229.1	221.6	204.2	189.3	189.3
85°	69.7	92.1	104.6	122.0	132.0	134.5	119.5	102.1	84.7	77.2	84.7
87.5°	12.5	17.4	24.9	22.4	27.4	24.9	24.9	24.9	24.9	19.9	22.4
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: P529926

CATALOG NUMBER: GALN-SA5A-760-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3	7608.3
2.5°	6761.5	6886.1	6973.2	7117.7	7366.7	7566.0	7770.2	7922.1	7939.5	7984.4
5°	5718.1	5785.3	6006.9	6295.8	6500.0	6836.3	7052.9	7446.4	7593.4	7750.3
7.5°	4465.4	4574.9	4871.3	5065.6	5513.8	5934.7	6370.5	6856.2	7050.4	7072.9
10°	3765.5	3924.9	4126.7	4438.0	4682.0	5150.2	5693.1	6233.6	6450.2	6487.6
12.5°	3307.3	3511.5	3780.5	4004.6	4238.7	4647.2	5167.7	5835.1	6116.5	6285.9
15°	2866.5	3078.2	3374.5	3685.9	3892.6	4380.7	4993.3	5745.4	6111.5	6261.0
17.5°	2413.2	2610.0	2854.0	3190.3	3606.2	4154.1	4965.9	6044.3	6445.3	6619.6
20°	2024.7	2134.3	2418.2	2764.4	3284.9	3922.4	4975.9	6485.1	7072.9	7150.1
22.5°	1872.8	1897.7	2009.8	2328.6	2898.9	3685.9	5152.7	7110.2	7777.6	8031.7
25°	1755.8	1750.8	1780.7	1994.8	2617.5	3593.7	5327.1	7685.5	8559.6	8836.1
27.5°	1691.0	1641.2	1643.7	1845.4	2418.2	3444.3	5551.2	8345.5	9446.2	9568.3
30°	1658.6	1648.7	1618.8	1701.0	2201.5	3220.1	5588.5	8995.5	9969.2	10146.1
32.5°	1638.7	1541.6	1504.2	1534.1	1997.3	2976.1	5728.0	9423.8	10616.7	10539.5
35°	1539.1	1451.9	1427.0	1456.9	1852.9	2839.1	5635.9	9797.4	11102.4	11231.9
37.5°	1501.7	1424.5	1374.7	1349.8	1718.4	2724.5	5588.5	10372.7	11573.1	11884.4
40°	1466.9	1384.7	1324.9	1300.0	1613.8	2572.6	5573.6	10816.0	12116.0	12302.8
42.5°	1427.0	1374.7	1307.5	1262.7	1486.8	2420.7	5401.8	10953.0	12282.9	12484.6
44°	1414.6	1334.9	1265.1	1250.2	1437.0	2343.5	5366.9	11077.5	12427.3	12733.6
45°	1402.1	1327.4	1247.7	1227.8	1419.6	2301.2	5319.6	11107.4	12666.4	12723.7
47.5°	1367.3	1319.9	1242.7	1187.9	1382.2	2209.0	5177.6	10938.0	12422.3	12432.3
50°	1339.9	1285.1	1205.4	1098.3	1332.4	2131.8	5242.4	10875.8	11834.6	11857.0
52.5°	1310.0	1227.8	1183.0	998.7	1250.2	2067.1	5379.4	11157.2	11901.8	11896.8
55°	1275.1	1185.4	1075.9	914.0	1113.2	1984.9	5710.6	11712.5	12524.4	12609.1
57.5°	1220.3	1143.1	986.2	839.3	956.3	1828.0	5603.5	10649.1	11523.3	11538.2
60°	1148.1	1075.9	894.1	782.0	784.5	1442.0	5010.8	8298.1	9092.6	9309.3
62.5°	1078.4	1038.5	816.9	699.8	667.4	1148.1	4236.2	6896.0	7805.0	7984.4
65°	996.2	899.0	749.6	637.6	572.8	804.4	3001.0	5152.7	6089.1	6330.7
67.5°	891.6	787.0	660.0	560.3	490.6	537.9	1549.1	2928.8	3877.6	4019.6
70°	779.5	682.4	555.4	473.2	396.0	371.1	682.4	1397.1	2119.4	2266.3
72.5°	640.0	550.4	443.3	373.6	296.4	256.5	229.1	373.6	752.1	874.1
75°	463.2	401.0	333.7	266.5	209.2	164.4	134.5	112.1	124.5	134.5
77.5°	341.2	291.4	246.6	189.3	146.9	117.1	92.1	69.7	67.2	64.8
80°	266.5	236.6	196.7	151.9	114.6	87.2	64.8	47.3	42.3	42.3
82.5°	209.2	194.3	161.9	124.5	94.6	69.7	47.3	32.4	27.4	27.4
85°	79.7	79.7	117.1	102.1	72.2	49.8	32.4	17.4	14.9	14.9
87.5°	19.9	19.9	19.9	19.9	17.4	14.9	14.9	7.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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