

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: P531670

Luminaire Tested: **GALN-SA7A-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531670
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-SA7A-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 19839 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

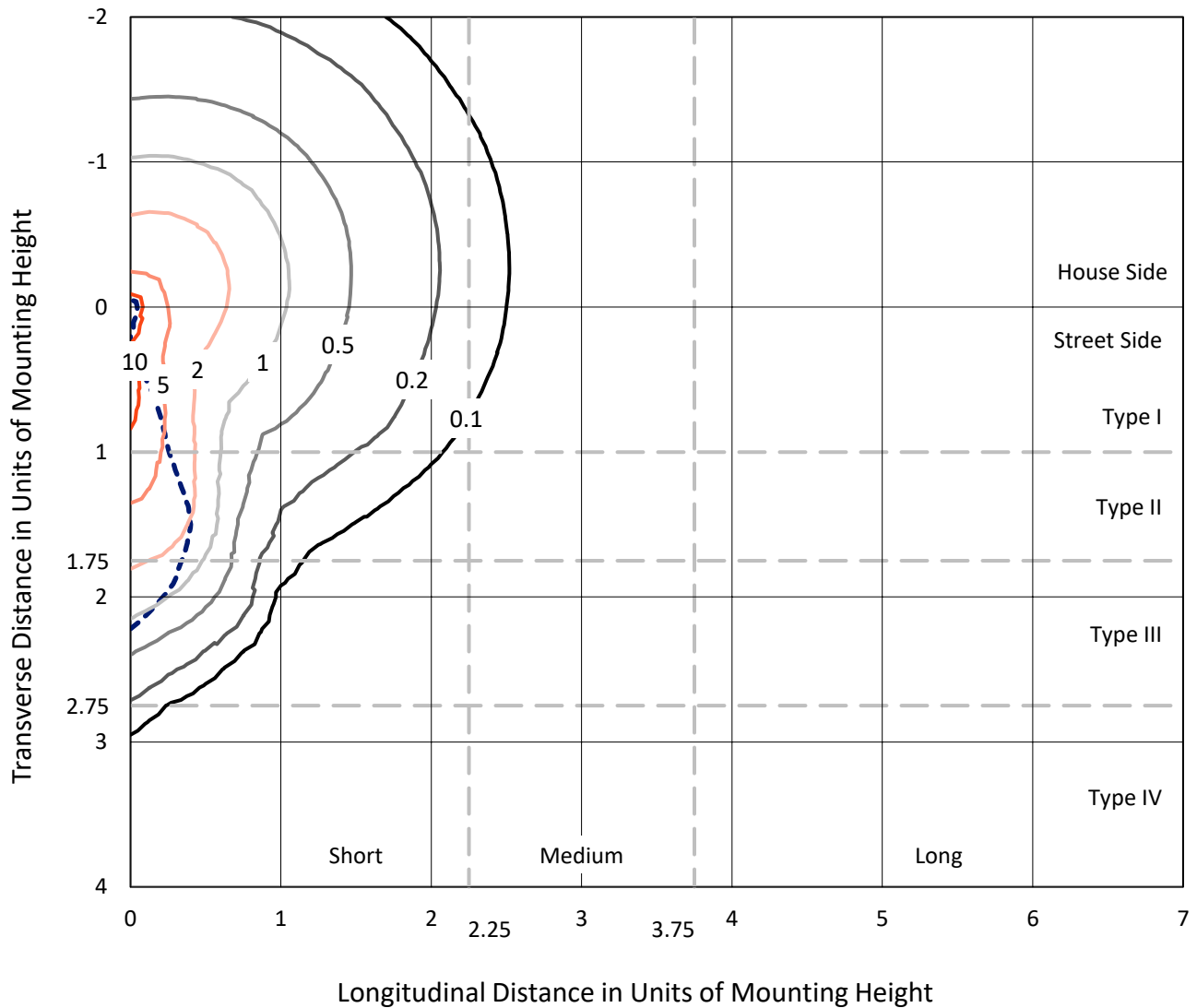
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

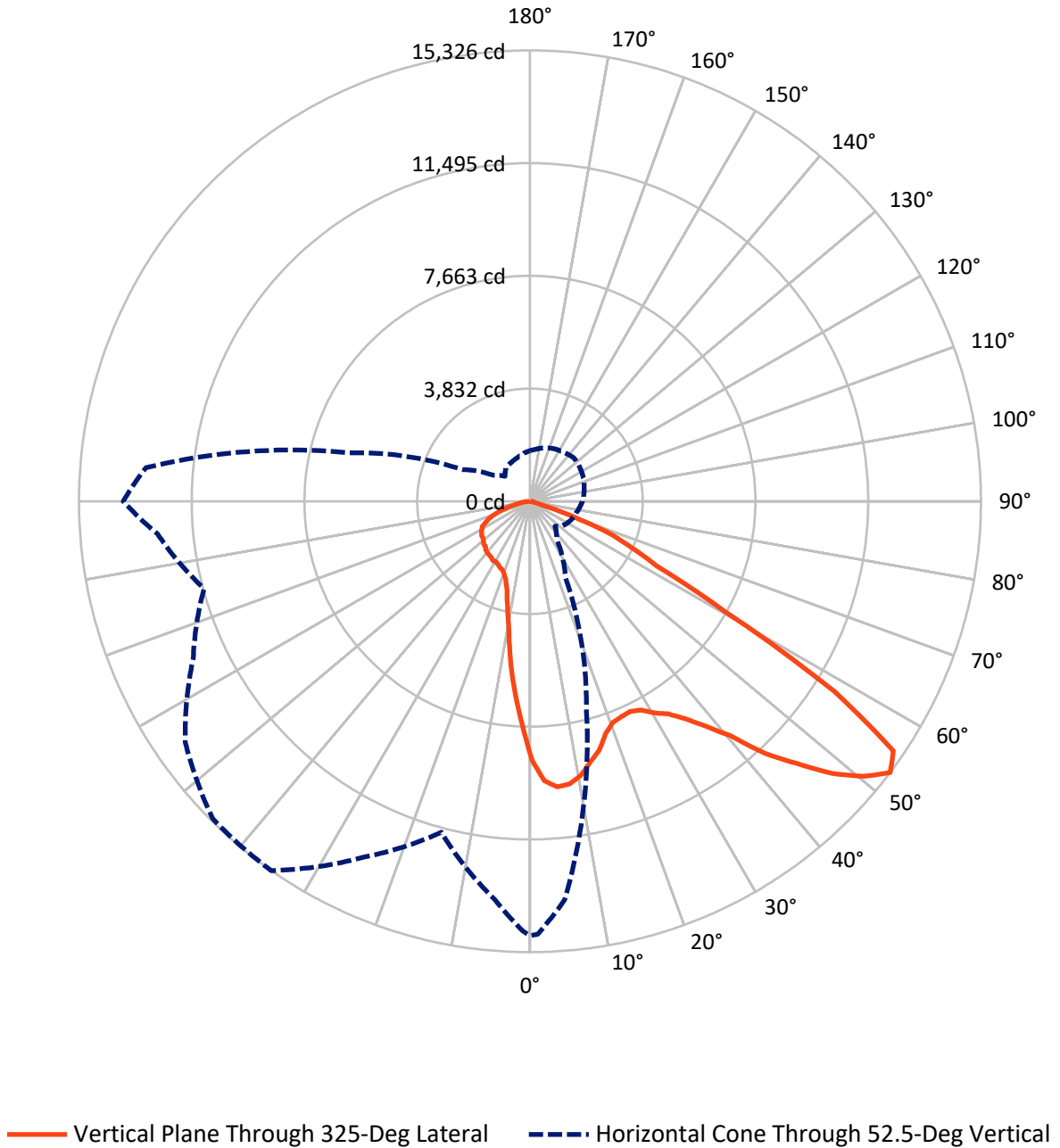
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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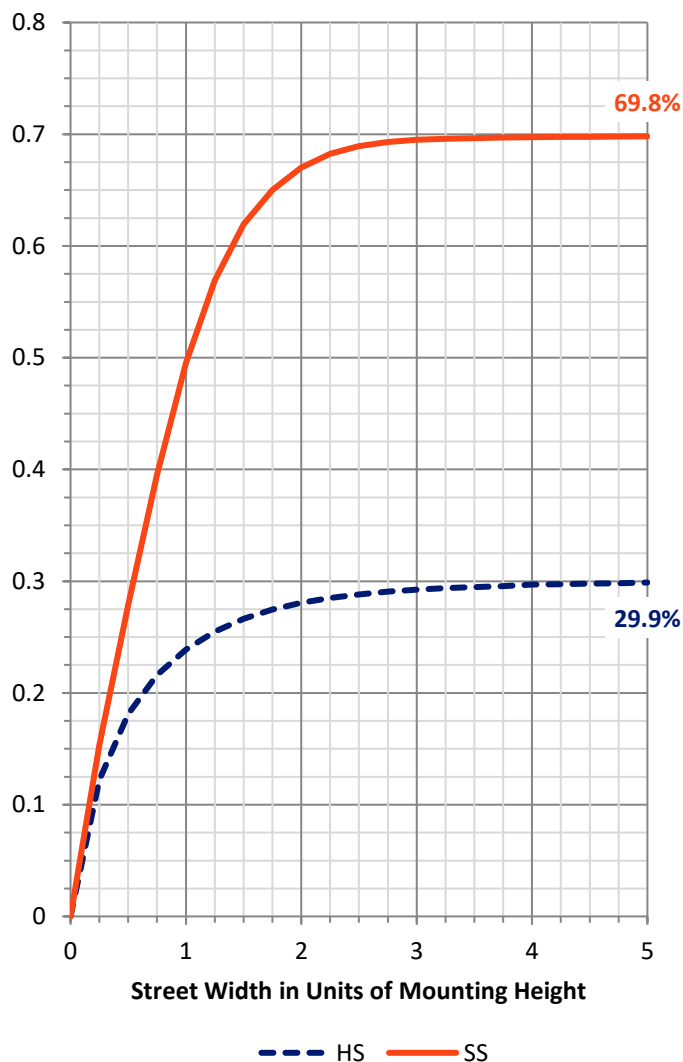
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5980.6	0.0	5980.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	13858.4	0.0	13858.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	19839.0	0.0	19839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.7	3.4
10°-20°	1456.2	7.3
20°-30°	2200.2	11.1
30°-40°	3179.4	16.0
40°-50°	4231.2	21.3
50°-60°	4732.7	23.9
60°-70°	2667.3	13.4
70°-80°	594.6	3.0
80°-90°	105.9	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°	19839.0	100.0
0°-180°	19839.0	100.0

Coefficient of Utilization



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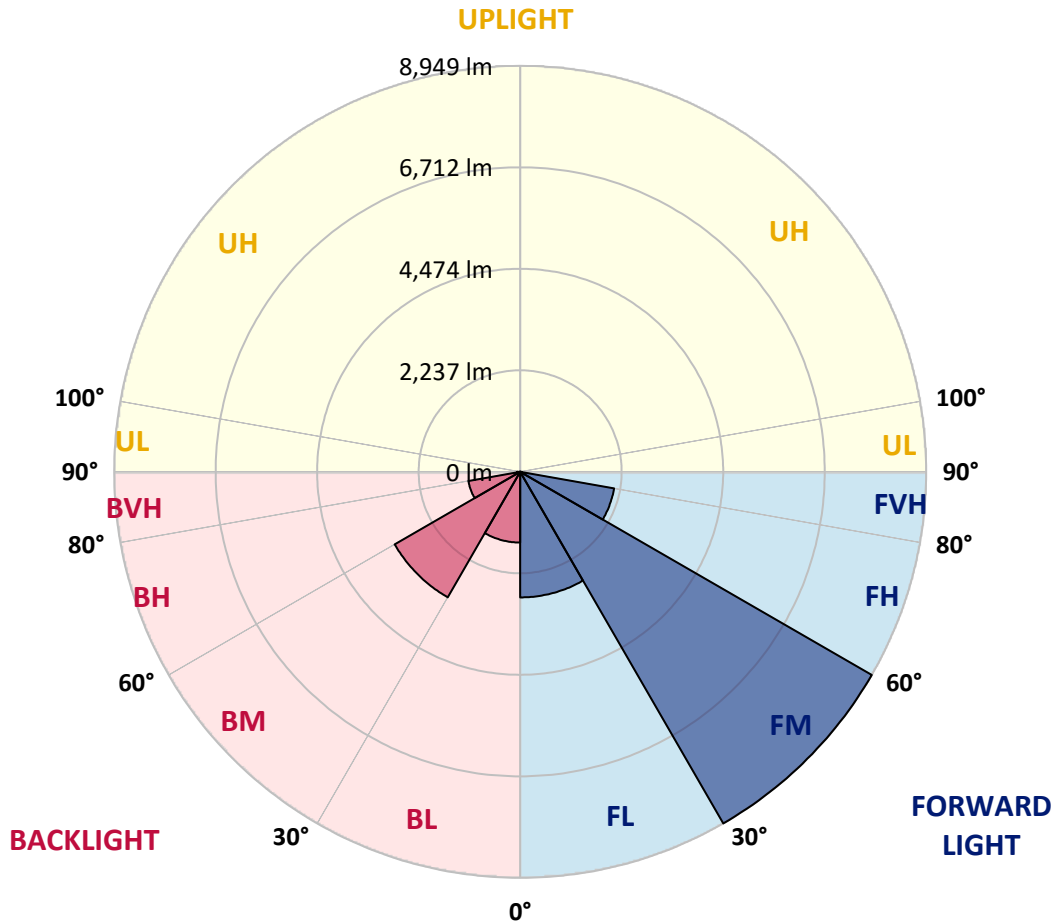
CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2768.5	14.0			
FM (30°-60°)	8948.9	45.1			
FH (60°-80°)	2102.6	10.6			G2/5000
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	1559.6	7.9	B3/2500		
BM (30°-60°)	3194.3	16.1	B3/5000		
BH (60°-80°)	1159.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	67.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7
2.5°	8951.3	9095.1	8939.8	8663.8	8468.2	8290.0	8103.1	8065.7	7821.3	7778.1	7599.9
5°	8442.4	8410.7	8221.0	7858.6	7459.0	7096.6	6829.2	6570.4	6395.0	6190.9	6176.5
7.5°	7824.1	7640.1	7530.8	6981.6	6487.0	5917.7	5673.3	5279.4	5155.7	4971.7	4876.8
10°	7272.0	7136.9	6881.0	6331.8	5641.7	5265.0	5003.3	4790.5	4646.7	4457.0	4218.3
12.5°	6998.9	6944.2	6656.7	5805.6	5293.7	4891.2	4707.1	4500.1	4255.7	3950.9	3833.0
15°	7047.8	6863.7	6645.2	5704.9	4997.6	4609.4	4316.1	4057.3	3743.9	3453.4	3283.8
17.5°	7412.9	7272.0	6835.0	5768.2	4885.4	4324.7	3792.7	3410.3	3128.5	2866.8	2748.9
20°	8131.8	7927.7	7435.9	5848.7	4643.9	3927.9	3318.3	2846.7	2544.8	2406.8	2366.5
22.5°	8928.3	8807.5	8022.5	6029.8	4451.2	3559.8	2815.1	2343.5	2231.4	2194.0	2268.7
25°	9897.3	9583.9	8934.1	6326.0	4301.7	3246.4	2389.5	2127.8	2070.3	2107.7	2194.0
27.5°	10633.5	10550.1	9572.4	6604.9	4097.5	2869.7	2150.8	1978.3	1995.6	2033.0	2113.5
30°	11507.6	11084.9	10190.6	6797.6	3913.5	2610.9	1984.1	1938.1	1955.3	2018.6	2058.8
32.5°	12033.8	11875.7	10578.8	7088.0	3700.7	2386.6	1854.7	1811.5	1837.4	1932.3	2027.2
35°	12703.8	12390.4	11059.0	7162.8	3551.2	2297.5	1762.7	1731.0	1791.4	1857.5	1963.9
37.5°	13485.9	13270.3	11723.3	7111.0	3470.7	2205.5	1685.0	1670.6	1713.8	1805.8	1929.4
40°	13948.9	13882.7	12071.2	7142.7	3344.2	2125.0	1595.9	1613.1	1702.3	1774.2	1894.9
42.5°	14394.6	13963.3	12585.9	7131.2	3263.7	2015.7	1604.5	1584.4	1653.4	1736.8	1851.8
45°	14492.3	14063.9	12706.7	7050.6	3165.9	1909.3	1538.4	1547.0	1630.4	1733.9	1808.7
47.5°	14429.1	14112.8	12931.0	7027.6	3073.9	1834.5	1440.6	1544.1	1593.0	1676.4	1782.8
50°	14385.9	14368.7	13120.7	7136.9	2950.2	1716.7	1322.7	1506.7	1555.6	1639.0	1754.0
52.5°	14765.5	14728.1	13595.2	7424.4	2852.5	1590.1	1201.9	1411.9	1529.7	1610.3	1722.4
55°	14995.5	14831.6	14408.9	7778.1	2688.6	1423.4	1118.6	1294.0	1466.5	1538.4	1653.4
57.5°	13488.8	13376.7	13034.5	7260.5	2412.5	1204.8	1015.0	1173.2	1380.2	1492.4	1610.3
60°	11222.9	11047.5	10170.5	6170.7	1779.9	937.4	951.8	1078.3	1357.2	1400.4	1538.4
62.5°	10581.7	10147.5	8954.2	4965.9	1365.8	805.1	854.0	992.0	1236.4	1308.3	1446.4
65°	8396.4	8074.3	6406.5	3585.7	914.4	698.7	779.3	894.3	1066.8	1207.7	1334.2
67.5°	5256.3	4948.7	3418.9	1696.5	638.4	598.1	695.9	816.6	957.5	1084.0	1224.9
70°	2746.1	2409.6	1578.6	612.5	439.9	488.8	580.8	695.9	833.9	937.4	1046.7
72.5°	1023.7	831.0	514.7	264.5	304.8	373.8	471.6	555.0	652.7	779.3	839.6
75°	158.2	135.1	132.3	161.0	207.0	270.3	336.4	419.8	506.1	586.6	626.9
77.5°	74.8	71.9	80.5	106.4	138.0	192.7	244.4	324.9	393.9	445.7	468.7
80°	48.9	46.0	51.8	71.9	103.5	143.8	195.5	250.2	313.4	356.6	350.8
82.5°	28.8	31.6	31.6	48.9	71.9	103.5	140.9	189.8	232.9	270.3	247.3
85°	17.3	14.4	14.4	28.8	48.9	83.4	117.9	80.5	83.4	83.4	94.9
87.5°	5.8	5.8	5.8	2.9	5.8	5.8	8.6	14.4	17.3	20.1	25.9
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°	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7
2.5°	7594.1	7683.2	7651.6	7539.5	7625.7	7640.1	7582.6	7781.0	7818.4	7758.0	7775.3
5°	6156.4	6179.4	6231.1	6340.4	6418.0	6510.1	6510.1	6515.8	6438.2	6633.7	6576.2
7.5°	4796.3	4810.7	4871.0	5103.9	5170.1	5345.5	5420.2	5368.5	5213.2	5147.1	5201.7
10°	4140.7	4057.3	4037.2	4065.9	4215.4	4290.2	4353.5	4336.2	4310.3	4258.6	4201.1
12.5°	3703.6	3643.2	3594.3	3525.3	3533.9	3605.8	3654.7	3614.5	3626.0	3637.5	3654.7
15°	3229.1	3186.0	3160.1	3056.6	3045.1	3094.0	3111.3	3134.3	3177.4	3180.3	3160.1
17.5°	2725.9	2688.6	2746.1	2803.6	2763.3	2766.2	2797.8	2818.0	2806.5	2754.7	2728.8
20°	2380.9	2421.1	2478.6	2533.3	2576.4	2602.3	2613.8	2582.2	2544.8	2438.4	2435.5
22.5°	2280.2	2332.0	2380.9	2464.3	2504.5	2570.7	2510.3	2438.4	2386.6	2334.9	2274.5
25°	2205.5	2248.6	2346.4	2378.0	2455.6	2510.3	2467.1	2395.3	2306.1	2231.4	2185.4
27.5°	2150.8	2199.7	2263.0	2349.3	2409.6	2441.3	2398.1	2369.4	2277.4	2188.2	2122.1
30°	2116.3	2168.1	2283.1	2355.0	2406.8	2432.6	2357.9	2323.4	2257.2	2182.5	2125.0
32.5°	2093.3	2139.3	2237.1	2329.1	2363.6	2363.6	2375.1	2334.9	2242.9	2116.3	2067.5
35°	2018.6	2081.8	2162.3	2268.7	2332.0	2369.4	2311.9	2265.9	2205.5	2076.1	1986.9
37.5°	1975.4	2018.6	2122.1	2222.7	2277.4	2317.6	2294.6	2214.1	2133.6	2027.2	1955.3
40°	1929.4	1998.4	2090.5	2185.4	2245.7	2286.0	2268.7	2173.9	2076.1	1975.4	1926.6
42.5°	1897.8	1943.8	2038.7	2145.1	2217.0	2294.6	2242.9	2125.0	2056.0	1917.9	1863.3
45°	1871.9	1946.7	2047.3	2090.5	2165.2	2245.7	2153.7	2081.8	2001.3	1900.7	1854.7
47.5°	1840.3	1909.3	1975.4	2090.5	2125.0	2162.3	2145.1	2030.1	1961.1	1851.8	1820.2
50°	1828.8	1854.7	1975.4	2038.7	2087.6	2125.0	2079.0	1992.7	1926.6	1814.4	1745.4
52.5°	1782.8	1831.7	1909.3	1992.7	2053.1	2099.1	2024.3	1969.7	1880.6	1762.7	1719.5
55°	1725.3	1754.0	1892.1	1978.3	2009.9	2041.6	2012.8	1923.7	1831.7	1710.9	1667.8
57.5°	1650.5	1716.7	1828.8	1949.6	1989.8	2007.1	1961.1	1889.2	1774.2	1667.8	1598.8
60°	1572.9	1641.9	1765.5	1863.3	1903.6	1966.8	1897.8	1854.7	1722.4	1604.5	1529.7
62.5°	1495.2	1572.9	1664.9	1788.5	1823.0	1848.9	1831.7	1771.3	1664.9	1532.6	1440.6
65°	1403.2	1460.7	1575.8	1639.0	1662.0	1722.4	1662.0	1639.0	1544.1	1417.6	1340.0
67.5°	1265.2	1314.1	1414.7	1475.1	1492.4	1518.2	1515.4	1489.5	1383.1	1296.8	1227.8
70°	1107.1	1150.2	1213.4	1285.3	1294.0	1325.6	1296.8	1291.1	1222.1	1104.2	1066.8
72.5°	888.5	928.8	1012.2	1043.8	1046.7	1058.2	1043.8	1023.7	1006.4	882.8	845.4
75°	681.5	704.5	744.7	773.5	773.5	787.9	779.3	759.1	713.1	635.5	598.1
77.5°	474.5	497.5	549.2	566.5	563.6	569.3	543.5	523.3	454.3	414.1	382.4
80°	345.1	359.4	385.3	396.8	399.7	408.3	376.7	359.4	319.2	273.2	258.8
82.5°	250.2	258.8	261.7	276.0	276.0	261.7	253.0	235.8	207.0	178.3	166.8
85°	103.5	106.4	109.3	126.5	129.4	155.3	143.8	135.1	117.9	100.6	92.0
87.5°	25.9	28.8	37.4	31.6	37.4	37.4	40.3	46.0	46.0	37.4	37.4
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°	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7
2.5°	7841.4	7864.4	8157.7	8195.1	8338.8	8485.5	8781.7	8994.5	9167.0	9279.1	9310.8
5°	6636.6	6783.2	6918.4	7136.9	7335.3	7617.1	7942.0	8344.6	8850.7	9109.5	9213.0
7.5°	5196.0	5368.5	5564.0	5776.8	6067.2	6573.3	7007.5	7473.3	8120.3	8387.7	8793.2
10°	4241.3	4434.0	4692.8	4856.7	5207.5	5690.5	6196.6	6734.3	7352.6	7737.9	8206.6
12.5°	3749.6	3907.8	4146.4	4491.5	4753.1	5066.6	5443.3	6121.9	7007.5	7372.7	7694.7
15°	3206.1	3381.5	3657.6	4040.0	4353.5	4727.3	5150.0	5888.9	6832.1	7395.7	7668.9
17.5°	2757.6	2884.1	3174.5	3505.2	3864.6	4272.9	4879.7	5877.4	7016.1	7737.9	8183.6
20°	2447.0	2464.3	2622.4	2904.2	3393.0	3925.0	4712.9	5819.9	7605.6	8327.3	8890.9
22.5°	2251.5	2234.2	2237.1	2475.8	2818.0	3582.8	4451.2	6015.5	8275.6	9264.7	9644.3
25°	2153.7	2107.7	2079.0	2130.7	2441.3	3177.4	4252.8	6274.3	8997.3	10038.2	10504.1
27.5°	2102.0	2021.5	1963.9	1972.6	2199.7	2973.2	4129.2	6386.4	9713.3	11116.5	11280.4
30°	2081.8	1981.2	1897.8	1869.1	2018.6	2688.6	3864.6	6579.1	10354.5	11708.9	11849.8
32.5°	2009.9	1886.3	1805.8	1779.9	1840.3	2438.4	3674.8	6717.1	10921.0	12353.0	12304.1
35°	1926.6	1823.0	1722.4	1673.5	1716.7	2277.4	3522.4	6650.9	11588.1	12853.3	12827.4
37.5°	1917.9	1782.8	1699.4	1618.9	1616.0	2079.0	3315.4	6714.2	12013.7	13750.5	13396.8
40°	1843.2	1756.9	1647.6	1581.5	1544.1	1978.3	3114.1	6564.7	12637.7	14112.8	13764.8
42.5°	1846.0	1716.7	1621.8	1544.1	1506.7	1831.7	2976.1	6524.4	12856.2	14702.2	13937.4
45°	1800.0	1673.5	1593.0	1501.0	1480.9	1719.5	2843.8	6337.5	13241.5	14731.0	13721.7
47.5°	1754.0	1641.9	1555.6	1446.4	1400.4	1679.3	2740.3	6182.2	13040.2	14460.7	13422.7
50°	1722.4	1593.0	1512.5	1434.9	1305.5	1610.3	2605.2	6144.9	12758.4	14095.5	12867.7
52.5°	1667.8	1552.8	1469.4	1409.0	1201.9	1547.0	2553.4	6363.4	13103.5	13822.4	12706.7
55°	1616.0	1498.1	1391.7	1273.8	1115.7	1380.2	2409.6	6567.6	13606.7	14452.1	13437.0
57.5°	1561.4	1449.2	1334.2	1193.3	1032.3	1207.7	2260.1	6604.9	12663.5	13356.5	12755.6
60°	1489.5	1345.7	1259.5	1075.4	943.2	1000.7	1791.4	5822.8	9822.6	11153.9	11174.1
62.5°	1409.0	1253.7	1178.9	963.3	851.1	862.6	1460.7	4894.0	7967.9	9233.1	9782.3
65°	1302.6	1153.1	1063.9	891.4	785.0	747.6	1069.7	3585.7	6052.9	7490.6	8114.6
67.5°	1164.6	1023.7	911.5	776.4	701.6	641.2	730.4	2018.6	3574.2	5029.2	5219.0
70°	1017.9	897.1	779.3	667.1	583.7	540.6	534.8	894.3	1708.0	2705.8	3079.6
72.5°	802.3	716.0	621.1	537.7	483.1	419.8	382.4	370.9	578.0	1101.3	1521.1
75°	575.1	503.2	448.6	393.9	353.7	319.2	290.4	264.5	241.5	276.0	379.6
77.5°	362.3	336.4	293.3	278.9	255.9	247.3	235.8	221.4	204.2	192.7	192.7
80°	244.4	227.2	212.8	209.9	201.3	198.4	201.3	186.9	169.7	155.3	161.0
82.5°	163.9	161.0	158.2	155.3	158.2	161.0	166.8	163.9	149.5	140.9	143.8
85°	97.8	103.5	109.3	115.0	126.5	112.1	92.0	77.6	69.0	63.3	60.4
87.5°	37.4	51.8	46.0	43.1	46.0	43.1	40.3	37.4	31.6	28.8	28.8
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: P531670

CATALOG NUMBER: GALN-SA7A-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7	8804.7
2.5°	9520.7	9578.2	9627.1	9615.6	9514.9	9379.8	9325.1	9046.2	8988.7	8951.3
5°	9650.1	9983.6	10055.5	10012.4	9750.7	9420.0	9098.0	8689.7	8451.0	8442.4
7.5°	9411.4	9822.6	9952.0	10049.7	9701.8	9126.7	8574.6	7962.2	7812.6	7824.1
10°	8804.7	9460.3	9779.5	9880.1	9480.4	8982.9	8218.1	7597.0	7277.8	7272.0
12.5°	8468.2	8982.9	9072.1	9213.0	9095.1	8591.9	8011.0	7315.2	7004.6	6998.9
15°	8169.2	8508.5	8534.4	8732.8	8796.0	8456.7	8065.7	7323.8	7073.6	7047.8
17.5°	8430.9	8195.1	8097.3	8123.2	8310.1	8433.7	8382.0	7812.6	7556.7	7412.9
20°	8606.3	8080.1	7783.9	7812.6	8034.0	8485.5	8853.6	8520.0	8114.6	8131.8
22.5°	9075.0	8097.3	7634.4	7602.7	7953.5	8755.8	9385.5	9414.3	9023.2	8928.3
25°	9776.6	8295.7	7588.3	7579.7	7916.2	9046.2	10006.6	10472.4	10072.7	9897.3
27.5°	10340.2	8606.3	7732.1	7760.9	8034.0	9282.0	10535.7	11153.9	10849.1	10633.5
30°	10834.7	8928.3	7933.4	7801.1	8350.3	9405.6	10762.9	11930.3	11685.9	11507.6
32.5°	11038.9	9385.5	8252.6	8034.0	8612.0	9555.2	11234.4	12683.7	12473.8	12033.8
35°	11384.0	9641.4	8425.1	8407.9	9069.2	9914.6	11455.8	13181.1	13094.9	12703.8
37.5°	11660.0	9900.2	9037.6	8847.8	9696.1	10518.4	11812.4	13868.4	13670.0	13485.9
40°	11872.8	10363.2	9609.8	9860.0	10466.7	11067.7	12140.2	13911.5	14483.7	13948.9
42.5°	11677.3	10777.2	10550.1	11148.2	11723.3	11694.5	12177.6	14245.0	14673.5	14394.6
45°	11628.4	11478.9	12036.7	12580.2	12712.4	12215.0	11910.2	13877.0	14616.0	14492.3
47.5°	11510.5	12169.0	13140.9	14026.5	13825.2	12562.9	11591.0	13810.9	14650.5	14429.1
50°	11470.2	12318.5	13957.5	14820.1	14699.4	12864.8	11441.5	13385.3	14406.1	14385.9
52.5°	11467.3	12626.2	14296.8	15251.5	15326.2	13342.2	11645.6	13600.9	14595.9	14765.5
55°	11596.7	12528.4	14253.7	15012.8	14984.0	13129.4	11668.6	13744.7	14828.8	14995.5
57.5°	10938.3	11222.9	11763.5	12364.5	12209.2	10875.0	10420.7	12706.7	13609.6	13488.8
60°	9445.9	8554.5	7944.9	7916.2	7614.2	7197.3	8528.6	11340.8	11340.8	11222.9
62.5°	8272.7	5615.8	4825.0	4600.7	4816.4	5296.6	8226.7	11030.3	10716.9	10581.7
65°	7234.7	4287.3	3487.9	3424.7	3798.5	4523.1	7438.8	9397.0	8844.9	8396.4
67.5°	4655.4	3140.0	2593.7	2481.5	2933.0	3321.2	4951.5	5779.7	5431.8	5256.3
70°	3002.0	2044.5	1443.5	1354.3	1529.7	2047.3	3163.0	3370.0	2864.0	2746.1
72.5°	1420.5	882.8	506.1	416.9	468.7	782.1	1250.8	1345.7	1118.6	1023.7
75°	451.4	324.9	207.0	178.3	169.7	201.3	287.5	221.4	161.0	158.2
77.5°	201.3	192.7	163.9	138.0	120.8	100.6	83.4	69.0	71.9	74.8
80°	166.8	152.4	135.1	120.8	100.6	77.6	60.4	46.0	46.0	48.9
82.5°	146.6	132.3	117.9	100.6	86.3	63.3	46.0	31.6	28.8	28.8
85°	63.3	74.8	80.5	86.3	69.0	51.8	31.6	20.1	17.3	17.3
87.5°	25.9	23.0	20.1	17.3	14.4	14.4	11.5	8.6	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)