

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: P529902

Luminaire Tested: **GALN-SA5A-750-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529902
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-SA5A-750-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 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 III - Short
BUG Rating: B3 - U0 - G2

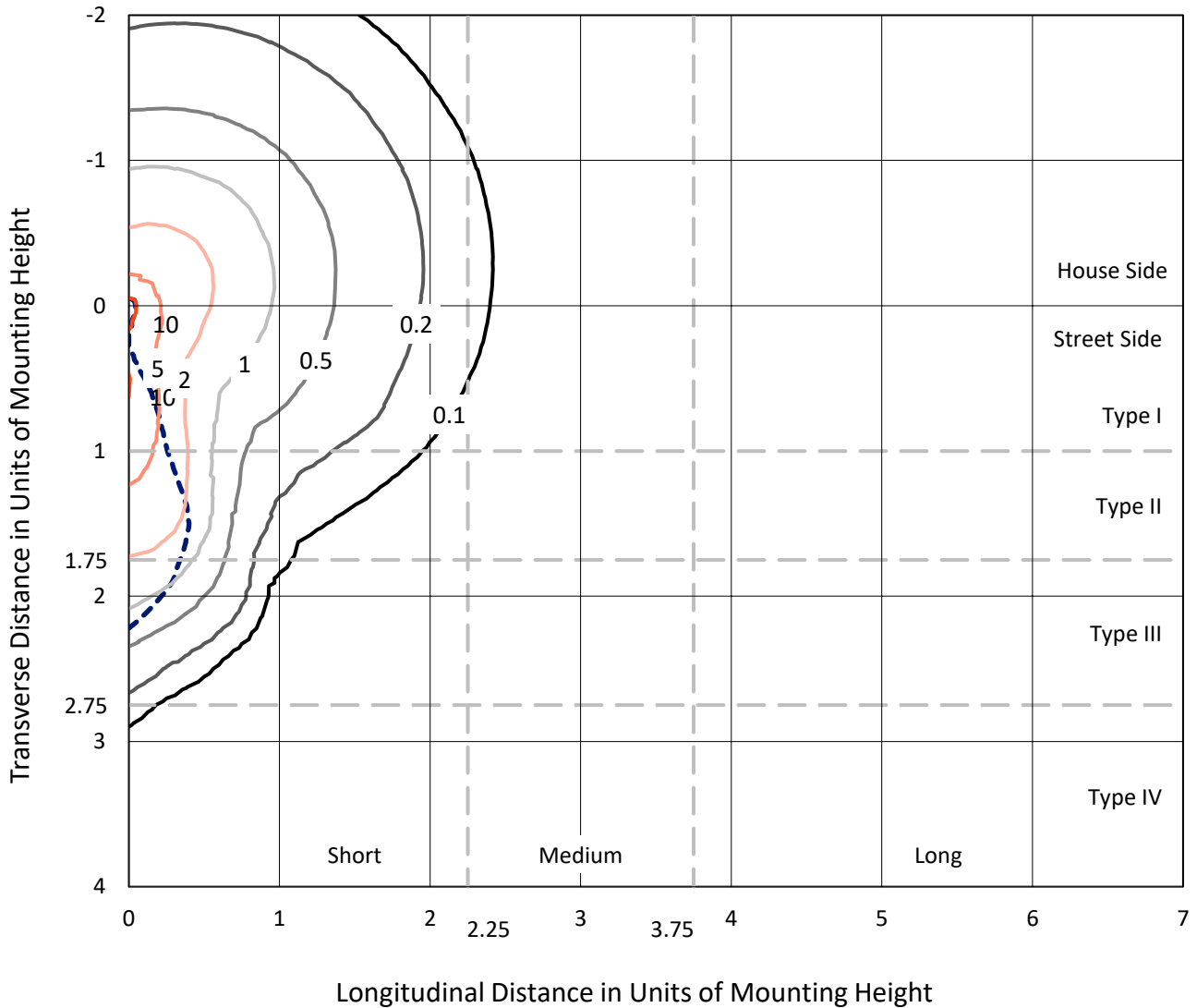
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

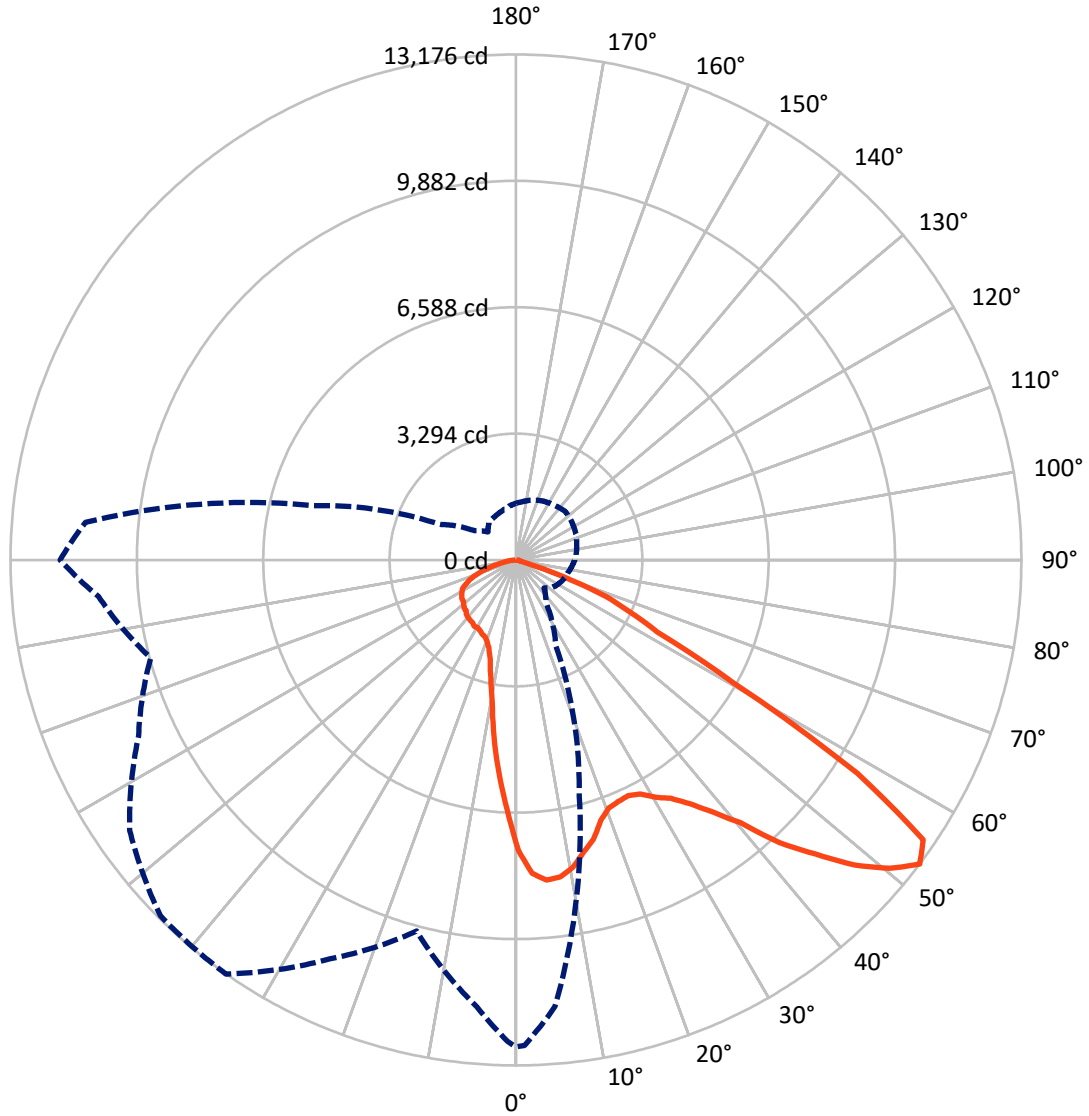
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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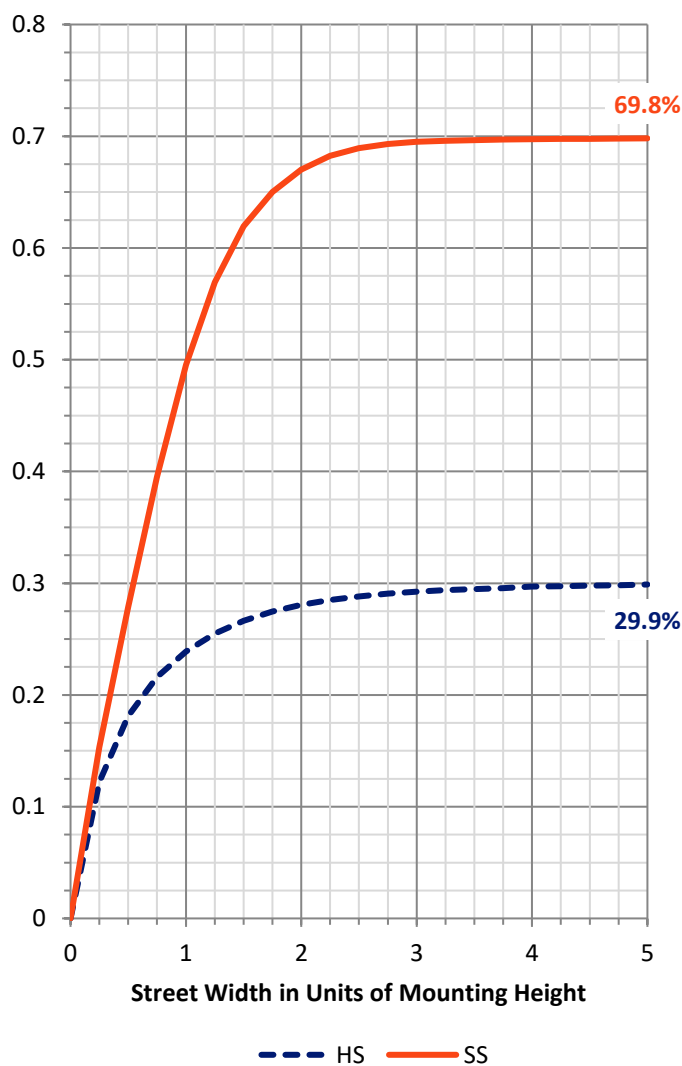
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5141.7	0.0	5141.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11914.3	0.0	11914.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	17056.0	0.0	17056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.5	3.4
10°-20°	1251.9	7.3
20°-30°	1891.5	11.1
30°-40°	2733.4	16.0
40°-50°	3637.6	21.3
50°-60°	4068.8	23.9
60°-70°	2293.1	13.4
70°-80°	511.2	3.0
80°-90°	91.0	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



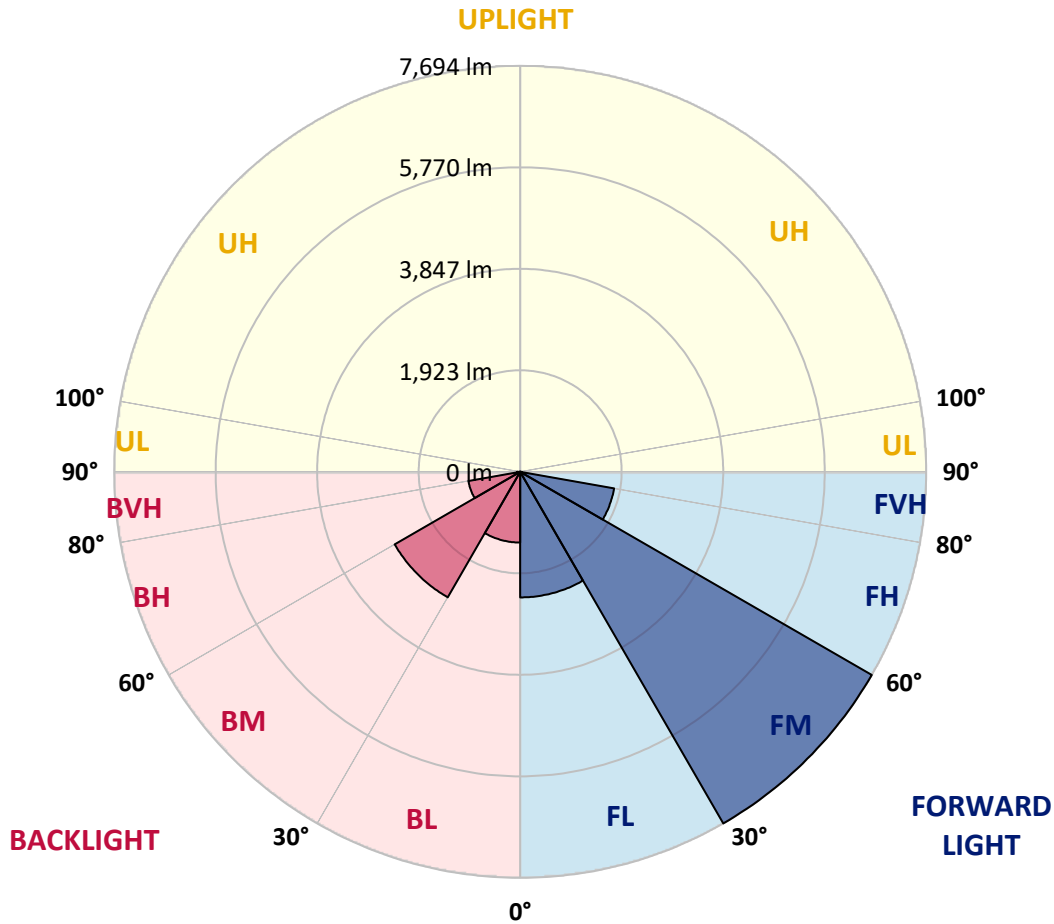
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.1	14.0			
FM (30°-60°)	7693.6	45.1			
FH (60°-80°)	1807.7	10.6			G2/5000
FVH (80°-90°)	33.0	0.2			G1/100
BL (0°-30°)	1340.8	7.9	B3/2500		
BM (30°-60°)	2746.2	16.1	B3/5000		
BH (60°-80°)	996.6	5.8	B2/1000		G2/1000
BVH (80°-90°)	58.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6
2.5°	7695.6	7819.2	7685.7	7448.4	7280.3	7127.1	6966.4	6934.2	6724.1	6687.0	6533.7
5°	7258.1	7230.9	7067.7	6756.2	6412.6	6101.1	5871.2	5648.7	5497.9	5322.4	5310.1
7.5°	6726.6	6568.4	6474.4	6002.2	5577.0	5087.6	4877.4	4538.8	4432.5	4274.3	4192.7
10°	6251.9	6135.7	5915.7	5443.6	4850.3	4526.4	4301.4	4118.5	3994.9	3831.7	3626.6
12.5°	6017.1	5970.1	5722.9	4991.2	4551.1	4205.0	4046.8	3868.8	3658.7	3396.7	3295.3
15°	6059.1	5900.9	5713.0	4904.6	4296.5	3962.8	3710.6	3488.1	3218.7	2969.0	2823.1
17.5°	6373.1	6251.9	5876.2	4959.0	4200.1	3718.0	3260.7	2931.9	2689.6	2464.7	2363.3
20°	6991.1	6815.6	6392.8	5028.2	3992.4	3376.9	2852.8	2447.4	2187.8	2069.1	2034.5
22.5°	7675.9	7572.0	6897.1	5184.0	3826.8	3060.5	2420.2	2014.8	1918.3	1886.2	1950.5
25°	8509.0	8239.5	7680.8	5438.6	3698.3	2791.0	2054.3	1829.4	1779.9	1812.0	1886.2
27.5°	9141.8	9070.1	8229.6	5678.4	3522.7	2467.2	1849.1	1700.8	1715.6	1747.8	1817.0
30°	9893.3	9529.9	8761.1	5844.0	3364.5	2244.7	1705.7	1666.2	1681.0	1735.4	1770.0
32.5°	10345.7	10209.8	9094.8	6093.7	3181.6	2051.8	1594.5	1557.4	1579.7	1661.2	1742.8
35°	10921.7	10652.3	9507.7	6158.0	3053.0	1975.2	1515.4	1488.2	1540.1	1597.0	1688.4
37.5°	11594.1	11408.7	10078.7	6113.5	2983.8	1896.1	1448.6	1436.3	1473.4	1552.5	1658.8
40°	11992.1	11935.3	10377.9	6140.7	2875.0	1826.9	1372.0	1386.8	1463.5	1525.3	1629.1
42.5°	12375.3	12004.5	10820.4	6130.8	2805.8	1732.9	1379.4	1362.1	1421.5	1493.1	1592.0
45°	12459.4	12091.0	10924.2	6061.6	2721.8	1641.5	1322.6	1330.0	1401.7	1490.7	1554.9
47.5°	12405.0	12133.0	11117.0	6041.8	2642.7	1577.2	1238.5	1327.5	1369.5	1441.2	1532.7
50°	12367.9	12353.1	11280.2	6135.7	2536.4	1475.8	1137.2	1295.4	1337.4	1409.1	1508.0
52.5°	12694.2	12662.1	11688.1	6383.0	2452.3	1367.1	1033.3	1213.8	1315.2	1384.4	1480.8
55°	12892.0	12751.1	12387.7	6687.0	2311.4	1223.7	961.6	1112.4	1260.8	1322.6	1421.5
57.5°	11596.6	11500.2	11206.0	6242.0	2074.1	1035.8	872.6	1008.6	1186.6	1283.0	1384.4
60°	9648.6	9497.8	8743.8	5305.1	1530.2	805.9	818.3	927.0	1166.8	1203.9	1322.6
62.5°	9097.3	8724.0	7698.1	4269.3	1174.2	692.2	734.2	852.9	1063.0	1124.8	1243.5
65°	7218.5	6941.6	5507.8	3082.7	786.1	600.7	669.9	768.8	917.1	1038.3	1147.1
67.5°	4519.0	4254.5	2939.3	1458.5	548.8	514.2	598.2	702.1	823.2	932.0	1053.1
70°	2360.9	2071.6	1357.2	526.6	378.2	420.3	499.4	598.2	716.9	805.9	899.8
72.5°	880.1	714.4	442.5	227.4	262.0	321.4	405.4	477.1	561.2	669.9	721.9
75°	136.0	116.2	113.7	138.4	178.0	232.4	289.2	360.9	435.1	504.3	538.9
77.5°	64.3	61.8	69.2	91.5	118.7	165.6	210.1	279.3	338.7	383.2	403.0
80°	42.0	39.6	44.5	61.8	89.0	123.6	168.1	215.1	269.5	306.5	301.6
82.5°	24.7	27.2	27.2	42.0	61.8	89.0	121.1	163.2	200.2	232.4	212.6
85°	14.8	12.4	12.4	24.7	42.0	71.7	101.4	69.2	71.7	71.7	81.6
87.5°	4.9	4.9	4.9	2.5	4.9	4.9	7.4	12.4	14.8	17.3	22.2
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°	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6
2.5°	6528.8	6605.4	6578.2	6481.8	6556.0	6568.4	6518.9	6689.5	6721.6	6669.7	6684.5
5°	5292.8	5312.5	5357.0	5451.0	5517.7	5596.8	5596.8	5601.8	5535.0	5703.1	5653.7
7.5°	4123.5	4135.8	4187.7	4388.0	4444.8	4595.6	4659.9	4615.4	4481.9	4425.1	4472.0
10°	3559.8	3488.1	3470.8	3495.5	3624.1	3688.4	3742.8	3727.9	3705.7	3661.2	3611.7
12.5°	3184.1	3132.1	3090.1	3030.8	3038.2	3100.0	3142.0	3107.4	3117.3	3127.2	3142.0
15°	2776.2	2739.1	2716.8	2627.8	2617.9	2660.0	2674.8	2694.6	2731.7	2734.1	2716.8
17.5°	2343.5	2311.4	2360.9	2410.3	2375.7	2378.2	2405.3	2422.7	2412.8	2368.3	2346.0
20°	2046.9	2081.5	2130.9	2177.9	2215.0	2237.2	2247.1	2219.9	2187.8	2096.3	2093.9
22.5°	1960.4	2004.9	2046.9	2118.6	2153.2	2210.1	2158.1	2096.3	2051.8	2007.3	1955.4
25°	1896.1	1933.2	2017.2	2044.4	2111.2	2158.1	2121.1	2059.3	1982.6	1918.3	1878.8
27.5°	1849.1	1891.2	1945.5	2019.7	2071.6	2098.8	2061.7	2037.0	1957.9	1881.3	1824.4
30°	1819.5	1864.0	1962.8	2024.6	2069.1	2091.4	2027.1	1997.5	1940.6	1876.3	1826.9
32.5°	1799.7	1839.2	1923.3	2002.4	2032.1	2032.1	2042.0	2007.3	1928.2	1819.5	1777.4
35°	1735.4	1789.8	1859.0	1950.5	2004.9	2037.0	1987.6	1948.0	1896.1	1784.9	1708.2
37.5°	1698.3	1735.4	1824.4	1910.9	1957.9	1992.5	1972.7	1903.5	1834.3	1742.8	1681.0
40°	1658.8	1718.1	1797.2	1878.8	1930.7	1965.3	1950.5	1868.9	1784.9	1698.3	1656.3
42.5°	1631.6	1671.1	1752.7	1844.2	1906.0	1972.7	1928.2	1826.9	1767.5	1648.9	1601.9
45°	1609.3	1673.6	1760.1	1797.2	1861.5	1930.7	1851.6	1789.8	1720.6	1634.1	1594.5
47.5°	1582.1	1641.5	1698.3	1797.2	1826.9	1859.0	1844.2	1745.3	1686.0	1592.0	1564.8
50°	1572.3	1594.5	1698.3	1752.7	1794.7	1826.9	1787.3	1713.2	1656.3	1559.9	1500.6
52.5°	1532.7	1574.7	1641.5	1713.2	1765.1	1804.6	1740.4	1693.4	1616.8	1515.4	1478.3
55°	1483.3	1508.0	1626.6	1700.8	1728.0	1755.2	1730.5	1653.8	1574.7	1470.9	1433.8
57.5°	1419.0	1475.8	1572.3	1676.1	1710.7	1725.5	1686.0	1624.2	1525.3	1433.8	1374.5
60°	1352.2	1411.6	1517.9	1601.9	1636.5	1690.9	1631.6	1594.5	1480.8	1379.4	1315.2
62.5°	1285.5	1352.2	1431.3	1537.6	1567.3	1589.6	1574.7	1522.8	1431.3	1317.6	1238.5
65°	1206.4	1255.8	1354.7	1409.1	1428.9	1480.8	1428.9	1409.1	1327.5	1218.7	1152.0
67.5°	1087.7	1129.7	1216.3	1268.2	1283.0	1305.3	1302.8	1280.5	1189.1	1114.9	1055.6
70°	951.8	988.8	1043.2	1105.0	1112.4	1139.6	1114.9	1110.0	1050.6	949.3	917.1
72.5°	763.9	798.5	870.2	897.4	899.8	909.7	897.4	880.1	865.2	758.9	726.8
75°	585.9	605.7	640.3	665.0	665.0	677.4	669.9	652.6	613.1	546.3	514.2
77.5°	407.9	427.7	472.2	487.0	484.5	489.5	467.2	449.9	390.6	356.0	328.8
80°	296.7	309.0	331.3	341.1	343.6	351.0	323.8	309.0	274.4	234.8	222.5
82.5°	215.1	222.5	225.0	237.3	237.3	225.0	217.5	202.7	178.0	153.3	143.4
85°	89.0	91.5	93.9	108.8	111.2	133.5	123.6	116.2	101.4	86.5	79.1
87.5°	22.2	24.7	32.1	27.2	32.1	32.1	34.6	39.6	39.6	32.1	32.1
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°	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6
2.5°	6741.4	6761.2	7013.3	7045.5	7169.1	7295.2	7549.8	7732.7	7881.0	7977.5	8004.6
5°	5705.6	5831.7	5947.9	6135.7	6306.3	6548.6	6827.9	7174.0	7609.1	7831.6	7920.6
7.5°	4467.1	4615.4	4783.5	4966.4	5216.1	5651.2	6024.5	6425.0	6981.2	7211.1	7559.7
10°	3646.3	3812.0	4034.5	4175.4	4477.0	4892.3	5327.4	5789.6	6321.1	6652.4	7055.4
12.5°	3223.6	3359.6	3564.8	3861.4	4086.4	4355.8	4679.7	5263.1	6024.5	6338.5	6615.3
15°	2756.4	2907.2	3144.5	3473.3	3742.8	4064.1	4427.5	5062.9	5873.7	6358.2	6593.1
17.5°	2370.7	2479.5	2729.2	3013.5	3322.5	3673.5	4195.1	5053.0	6031.9	6652.4	7035.6
20°	2103.8	2118.6	2254.6	2496.8	2917.1	3374.4	4051.8	5003.5	6538.7	7159.2	7643.7
22.5°	1935.7	1920.8	1923.3	2128.5	2422.7	3080.2	3826.8	5171.6	7114.7	7965.1	8291.4
25°	1851.6	1812.0	1787.3	1831.8	2098.8	2731.7	3656.2	5394.1	7735.2	8630.1	9030.6
27.5°	1807.1	1737.9	1688.4	1695.9	1891.2	2556.1	3549.9	5490.5	8350.7	9557.1	9698.0
30°	1789.8	1703.3	1631.6	1606.9	1735.4	2311.4	3322.5	5656.2	8902.0	10066.4	10187.5
32.5°	1728.0	1621.7	1552.5	1530.2	1582.1	2096.3	3159.3	5774.8	9389.0	10620.1	10578.1
35°	1656.3	1567.3	1480.8	1438.8	1475.8	1957.9	3028.3	5718.0	9962.5	11050.3	11028.0
37.5°	1648.9	1532.7	1461.0	1391.8	1389.3	1787.3	2850.3	5772.3	10328.4	11821.6	11517.5
40°	1584.6	1510.5	1416.5	1359.7	1327.5	1700.8	2677.3	5643.8	10864.9	12133.0	11833.9
42.5°	1587.1	1475.8	1394.3	1327.5	1295.4	1574.7	2558.6	5609.2	11052.7	12639.8	11982.2
45°	1547.5	1438.8	1369.5	1290.4	1273.1	1478.3	2444.9	5448.5	11384.0	12664.5	11796.8
47.5°	1508.0	1411.6	1337.4	1243.5	1203.9	1443.7	2355.9	5315.0	11211.0	12432.2	11539.7
50°	1480.8	1369.5	1300.3	1233.6	1122.3	1384.4	2239.7	5282.9	10968.7	12118.2	11062.6
52.5°	1433.8	1334.9	1263.2	1211.3	1033.3	1330.0	2195.2	5470.7	11265.3	11883.4	10924.2
55°	1389.3	1288.0	1196.5	1095.1	959.2	1186.6	2071.6	5646.3	11698.0	12424.8	11552.1
57.5°	1342.3	1245.9	1147.1	1025.9	887.5	1038.3	1943.1	5678.4	10887.1	11482.9	10966.2
60°	1280.5	1156.9	1082.8	924.6	810.8	860.3	1540.1	5006.0	8444.7	9589.3	9606.6
62.5°	1211.3	1077.8	1013.6	828.2	731.7	741.6	1255.8	4207.5	6850.2	7937.9	8410.1
65°	1119.9	991.3	914.7	766.3	674.9	642.7	919.6	3082.7	5203.8	6439.8	6976.3
67.5°	1001.2	880.1	783.7	667.5	603.2	551.3	627.9	1735.4	3072.8	4323.7	4486.9
70°	875.1	771.3	669.9	573.5	501.8	464.8	459.8	768.8	1468.4	2326.2	2647.6
72.5°	689.7	615.6	534.0	462.3	415.3	360.9	328.8	318.9	496.9	946.8	1307.7
75°	494.4	432.6	385.6	338.7	304.1	274.4	249.7	227.4	207.7	237.3	326.3
77.5°	311.5	289.2	252.2	239.8	220.0	212.6	202.7	190.4	175.5	165.6	165.6
80°	210.1	195.3	182.9	180.5	173.0	170.6	173.0	160.7	145.9	133.5	138.4
82.5°	140.9	138.4	136.0	133.5	136.0	138.4	143.4	140.9	128.5	121.1	123.6
85°	84.1	89.0	93.9	98.9	108.8	96.4	79.1	66.7	59.3	54.4	51.9
87.5°	32.1	44.5	39.6	37.1	39.6	37.1	34.6	32.1	27.2	24.7	24.7
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: P529902

CATALOG NUMBER: GALN-SA5A-750-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6	7569.6
2.5°	8185.1	8234.6	8276.6	8266.7	8180.2	8064.0	8017.0	7777.2	7727.8	7695.6
5°	8296.4	8583.1	8644.9	8607.8	8382.9	8098.6	7821.7	7470.7	7265.5	7258.1
7.5°	8091.2	8444.7	8555.9	8640.0	8340.9	7846.4	7371.8	6845.2	6716.7	6726.6
10°	7569.6	8133.2	8407.6	8494.1	8150.5	7722.8	7065.3	6531.3	6256.9	6251.9
12.5°	7280.3	7722.8	7799.5	7920.6	7819.2	7386.6	6887.3	6289.0	6022.0	6017.1
15°	7023.2	7314.9	7337.2	7507.8	7562.1	7270.4	6934.2	6296.4	6081.4	6059.1
17.5°	7248.2	7045.5	6961.4	6983.7	7144.4	7250.7	7206.2	6716.7	6496.7	6373.1
20°	7399.0	6946.6	6692.0	6716.7	6907.0	7295.2	7611.6	7324.8	6976.3	6991.1
22.5°	7801.9	6961.4	6563.4	6536.2	6837.8	7527.5	8068.9	8093.6	7757.4	7675.9
25°	8405.1	7132.0	6523.9	6516.4	6805.7	7777.2	8602.9	9003.4	8659.8	8509.0
27.5°	8889.7	7399.0	6647.5	6672.2	6907.0	7979.9	9057.8	9589.3	9327.2	9141.8
30°	9314.9	7675.9	6820.5	6706.8	7179.0	8086.2	9253.1	10256.7	10046.6	9893.3
32.5°	9490.4	8068.9	7094.9	6907.0	7403.9	8214.8	9658.5	10904.4	10724.0	10345.7
35°	9787.0	8288.9	7243.2	7228.4	7797.0	8523.8	9848.8	11332.1	11257.9	10921.7
37.5°	10024.3	8511.4	7769.8	7606.6	8335.9	9042.9	10155.4	11922.9	11752.3	11594.1
40°	10207.3	8909.4	8261.7	8476.8	8998.4	9515.1	10437.2	11960.0	12451.9	11992.1
42.5°	10039.2	9265.4	9070.1	9584.3	10078.7	10054.0	10469.3	12246.8	12615.1	12375.3
45°	9997.2	9868.6	10348.2	10815.4	10929.1	10501.5	10239.4	11930.3	12565.7	12459.4
47.5°	9895.8	10461.9	11297.5	12058.9	11885.8	10800.6	9965.0	11873.5	12595.3	12405.0
50°	9861.2	10590.5	11999.6	12741.2	12637.4	11060.2	9836.5	11507.6	12385.2	12367.9
52.5°	9858.7	10855.0	12291.3	13112.0	13176.3	11470.5	10012.0	11693.0	12548.4	12694.2
55°	9970.0	10770.9	12254.2	12906.8	12882.1	11287.6	10031.8	11816.6	12748.6	12892.0
57.5°	9403.9	9648.6	10113.3	10630.0	10496.5	9349.5	8958.9	10924.2	11700.4	11596.6
60°	8120.8	7354.5	6830.4	6805.7	6546.1	6187.7	7332.2	9749.9	9749.9	9648.6
62.5°	7112.2	4828.0	4148.2	3955.4	4140.8	4553.6	7072.7	9483.0	9213.5	9097.3
65°	6219.8	3685.9	2998.7	2944.3	3265.6	3888.6	6395.3	8078.8	7604.2	7218.5
67.5°	4002.3	2699.5	2229.8	2133.4	2521.5	2855.3	4256.9	4968.9	4669.8	4519.0
70°	2580.9	1757.7	1241.0	1164.4	1315.2	1760.1	2719.3	2897.3	2462.2	2360.9
72.5°	1221.2	758.9	435.1	358.5	403.0	672.4	1075.4	1156.9	961.6	880.1
75°	388.1	279.3	178.0	153.3	145.9	173.0	247.2	190.4	138.4	136.0
77.5°	173.0	165.6	140.9	118.7	103.8	86.5	71.7	59.3	61.8	64.3
80°	143.4	131.0	116.2	103.8	86.5	66.7	51.9	39.6	39.6	42.0
82.5°	126.1	113.7	101.4	86.5	74.2	54.4	39.6	27.2	24.7	24.7
85°	54.4	64.3	69.2	74.2	59.3	44.5	27.2	17.3	14.8	14.8
87.5°	22.2	19.8	17.3	14.8	12.4	12.4	9.9	7.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)