

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: P529850

Luminaire Tested: **GALN-SA5A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529850
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-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 15889 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

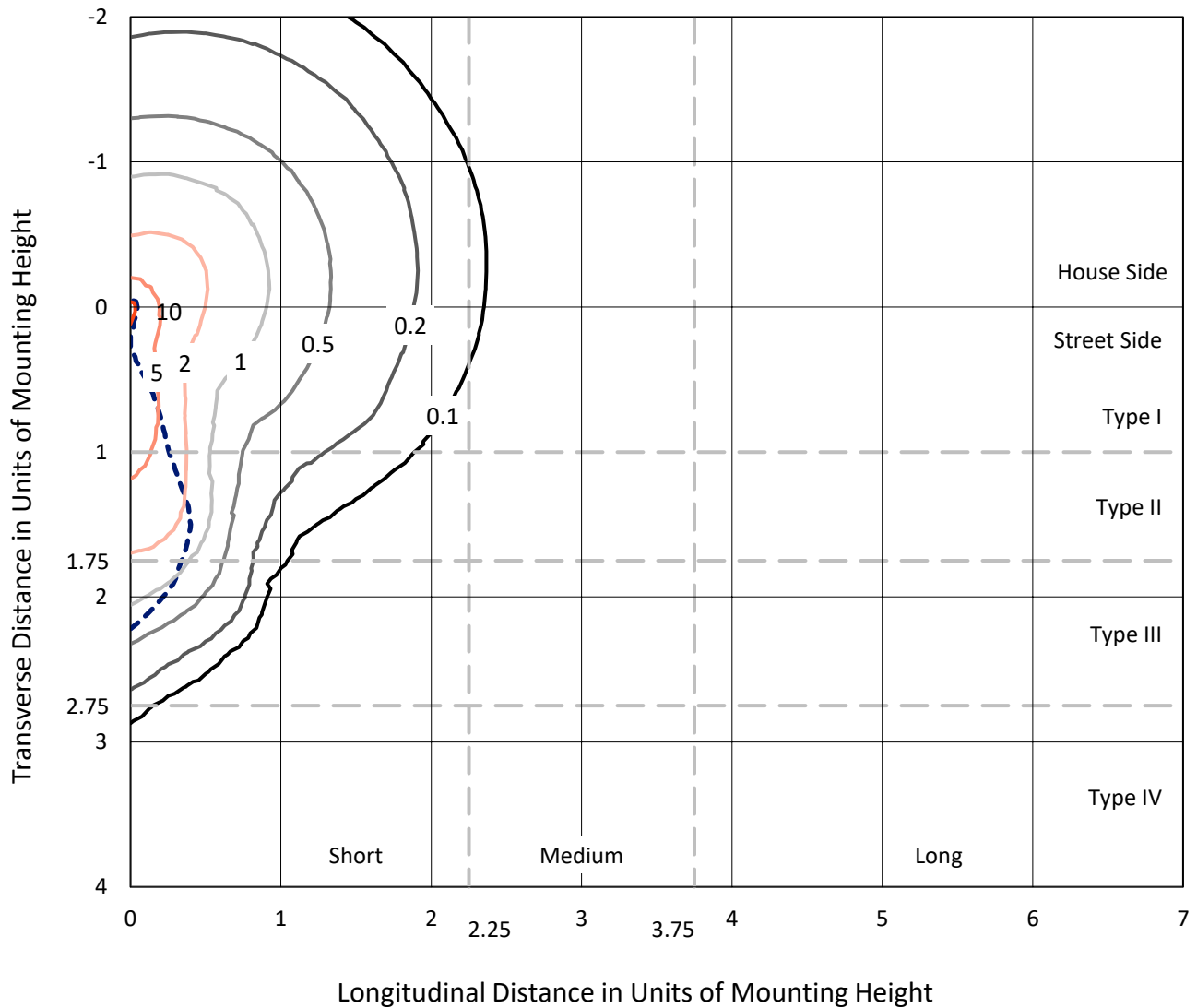
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

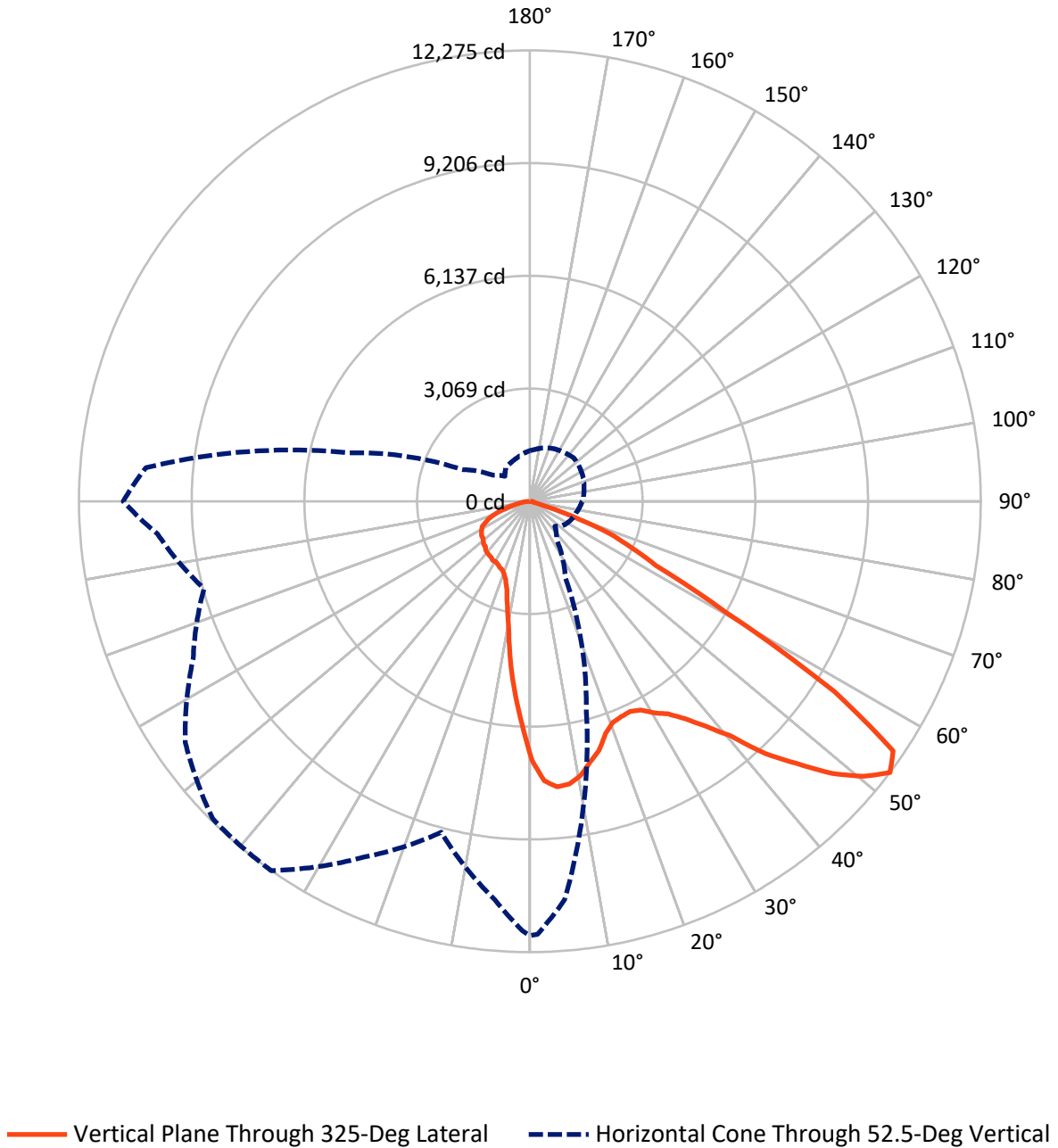
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	4789.9	0.0	4789.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11099.1	0.0	11099.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	15889.0	0.0	15889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.0	3.4
10°-20°	1166.3	7.3
20°-30°	1762.1	11.1
30°-40°	2546.3	16.0
40°-50°	3388.7	21.3
50°-60°	3790.4	23.9
60°-70°	2136.2	13.4
70°-80°	476.2	3.0
80°-90°	84.8	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°	15889.0	100.0
0°-180°	15889.0	100.0

Coefficient of Utilization



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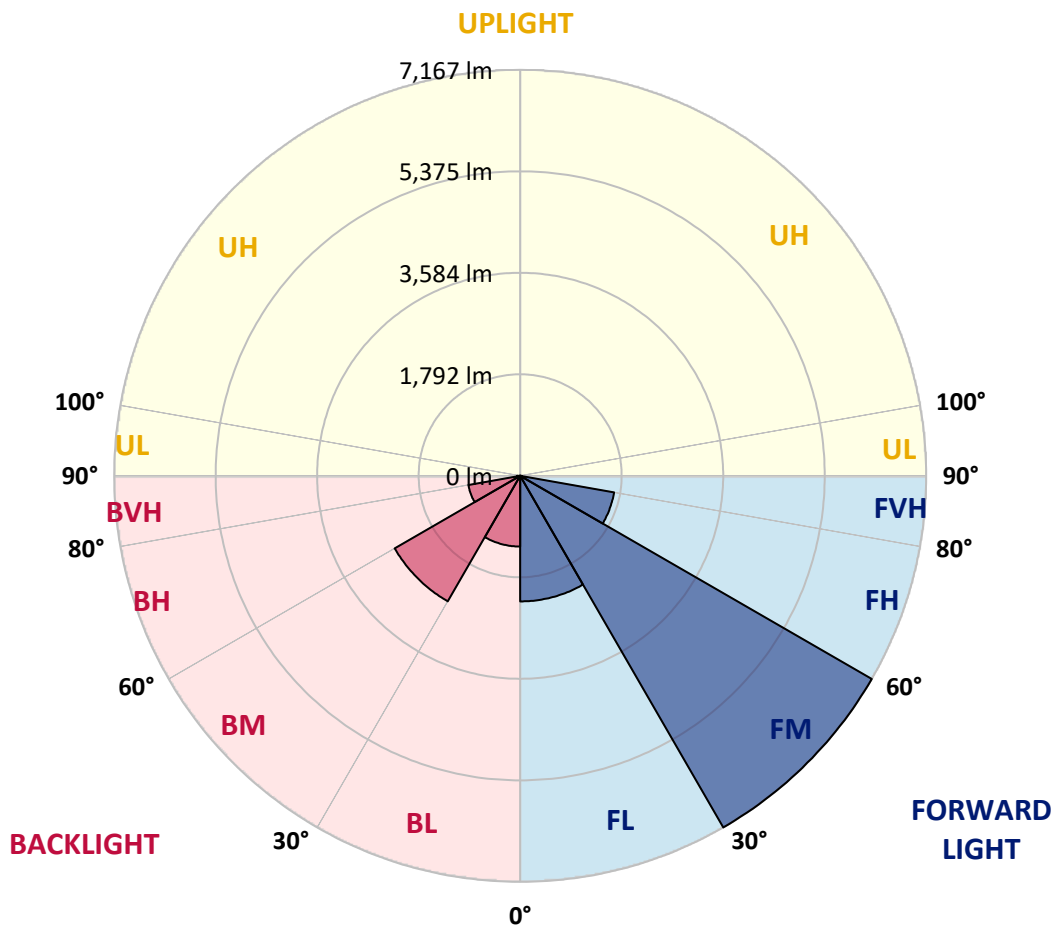
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.3	14.0			
FM (30°-60°)	7167.2	45.1			
FH (60°-80°)	1684.0	10.6			G1/1800
FVH (80°-90°)	30.7	0.2			G1/100
BL (0°-30°)	1249.1	7.9	B3/2500		
BM (30°-60°)	2558.3	16.1	B3/5000		
BH (60°-80°)	928.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	54.1	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°	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6
2.5°	7169.1	7284.2	7159.9	6938.8	6782.2	6639.4	6489.7	6459.8	6264.0	6229.5	6086.7
5°	6761.5	6736.1	6584.1	6294.0	5973.9	5683.7	5469.5	5262.2	5121.8	4958.3	4946.7
7.5°	6266.3	6118.9	6031.4	5591.6	5195.5	4739.5	4543.7	4228.2	4129.2	3981.8	3905.8
10°	5824.2	5715.9	5511.0	5071.1	4518.4	4216.7	4007.1	3836.7	3721.6	3569.6	3378.4
12.5°	5605.4	5561.6	5331.3	4649.7	4239.7	3917.3	3769.9	3604.1	3408.4	3164.3	3069.8
15°	5644.5	5497.1	5322.1	4569.1	4002.5	3691.6	3456.7	3249.5	2998.4	2765.8	2630.0
17.5°	5937.0	5824.2	5474.1	4619.7	3912.7	3463.6	3037.6	2731.3	2505.6	2296.0	2201.6
20°	6512.7	6349.2	5955.4	4684.2	3719.3	3145.8	2657.6	2279.9	2038.1	1927.6	1895.3
22.5°	7150.7	7053.9	6425.2	4829.3	3565.0	2851.1	2254.6	1876.9	1787.1	1757.2	1817.0
25°	7926.8	7675.7	7155.3	5066.5	3445.2	2600.0	1913.8	1704.2	1658.1	1688.1	1757.2
27.5°	8516.3	8449.5	7666.5	5289.9	3281.7	2298.3	1722.6	1584.4	1598.2	1628.2	1692.7
30°	9216.4	8877.9	8161.7	5444.2	3134.3	2091.1	1589.0	1552.2	1566.0	1616.7	1648.9
32.5°	9637.8	9511.2	8472.6	5676.8	2963.9	1911.4	1485.4	1450.9	1471.6	1547.6	1623.6
35°	10174.4	9923.4	8857.1	5736.7	2844.1	1840.1	1411.7	1386.4	1434.7	1487.7	1572.9
37.5°	10800.8	10628.1	9389.1	5695.2	2779.7	1766.4	1349.5	1338.0	1372.6	1446.3	1545.3
40°	11171.6	11118.6	9667.8	5720.5	2678.3	1701.9	1278.1	1292.0	1363.3	1420.9	1517.6
42.5°	11528.6	11183.1	10080.0	5711.3	2613.8	1614.4	1285.0	1268.9	1324.2	1391.0	1483.1
45°	11606.9	11263.7	10176.7	5646.8	2535.5	1529.2	1232.1	1239.0	1305.8	1388.7	1448.6
47.5°	11556.2	11302.9	10356.4	5628.4	2461.9	1469.3	1153.8	1236.7	1275.8	1342.6	1427.8
50°	11521.7	11507.8	10508.4	5715.9	2362.8	1374.9	1059.4	1206.7	1245.9	1312.7	1404.8
52.5°	11825.7	11795.7	10888.4	5946.2	2284.5	1273.5	962.6	1130.7	1225.2	1289.7	1379.5
55°	12009.9	11878.6	11540.1	6229.5	2153.3	1140.0	895.8	1036.3	1174.5	1232.1	1324.2
57.5°	10803.1	10713.3	10439.3	5815.0	1932.2	964.9	812.9	939.6	1105.4	1195.2	1289.7
60°	8988.4	8847.9	8145.5	4942.1	1425.5	750.8	762.3	863.6	1087.0	1121.5	1232.1
62.5°	8474.9	8127.1	7171.4	3977.2	1093.9	644.8	684.0	794.5	990.3	1047.8	1158.4
65°	6724.6	6466.7	5131.0	2871.8	732.3	559.6	624.1	716.2	854.4	967.2	1068.6
67.5°	4209.8	3963.4	2738.2	1358.7	511.3	479.0	557.3	654.0	766.9	868.2	981.1
70°	2199.3	1929.9	1264.3	490.5	352.4	391.5	465.2	557.3	667.9	750.8	838.3
72.5°	819.9	665.6	412.2	211.9	244.1	299.4	377.7	444.5	522.8	624.1	672.5
75°	126.7	108.2	105.9	129.0	165.8	216.5	269.4	336.2	405.3	469.8	502.0
77.5°	59.9	57.6	64.5	85.2	110.5	154.3	195.8	260.2	315.5	357.0	375.4
80°	39.2	36.8	41.5	57.6	82.9	115.1	156.6	200.4	251.0	285.6	281.0
82.5°	23.0	25.3	25.3	39.2	57.6	82.9	112.8	152.0	186.5	216.5	198.1
85°	13.8	11.5	11.5	23.0	39.2	66.8	94.4	64.5	66.8	66.8	76.0
87.5°	4.6	4.6	4.6	2.3	4.6	4.6	6.9	11.5	13.8	16.1	20.7
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°	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6
2.5°	6082.1	6153.5	6128.2	6038.3	6107.4	6118.9	6072.9	6231.8	6261.7	6213.4	6227.2
5°	4930.6	4949.0	4990.5	5078.0	5140.2	5213.9	5213.9	5218.5	5156.3	5312.9	5266.8
7.5°	3841.3	3852.8	3901.2	4087.7	4140.7	4281.2	4341.1	4299.6	4175.3	4122.3	4166.0
10°	3316.2	3249.5	3233.3	3256.4	3376.1	3436.0	3486.7	3472.9	3452.1	3410.7	3364.6
12.5°	2966.2	2917.8	2878.7	2823.4	2830.3	2887.9	2927.1	2894.8	2904.0	2913.2	2927.1
15°	2586.2	2551.7	2530.9	2448.0	2438.8	2478.0	2491.8	2510.2	2544.8	2547.1	2530.9
17.5°	2183.2	2153.3	2199.3	2245.4	2213.1	2215.4	2240.8	2256.9	2247.7	2206.2	2185.5
20°	1906.8	1939.1	1985.1	2028.9	2063.4	2084.2	2093.4	2068.0	2038.1	1952.9	1950.6
22.5°	1826.2	1867.7	1906.8	1973.6	2005.9	2058.8	2010.5	1952.9	1911.4	1870.0	1821.6
25°	1766.4	1800.9	1879.2	1904.5	1966.7	2010.5	1975.9	1918.4	1847.0	1787.1	1750.2
27.5°	1722.6	1761.8	1812.4	1881.5	1929.9	1955.2	1920.7	1897.6	1823.9	1752.5	1699.6
30°	1695.0	1736.4	1828.5	1886.1	1927.6	1948.3	1888.4	1860.8	1807.8	1747.9	1701.9
32.5°	1676.5	1713.4	1791.7	1865.4	1893.0	1893.0	1902.2	1870.0	1796.3	1695.0	1655.8
35°	1616.7	1667.3	1731.8	1817.0	1867.7	1897.6	1851.6	1814.7	1766.4	1662.7	1591.3
37.5°	1582.1	1616.7	1699.6	1780.2	1823.9	1856.2	1837.8	1773.3	1708.8	1623.6	1566.0
40°	1545.3	1600.6	1674.2	1750.2	1798.6	1830.8	1817.0	1741.0	1662.7	1582.1	1543.0
42.5°	1519.9	1556.8	1632.8	1718.0	1775.6	1837.8	1796.3	1701.9	1646.6	1536.1	1492.3
45°	1499.2	1559.1	1639.7	1674.2	1734.1	1798.6	1724.9	1667.3	1602.9	1522.3	1485.4
47.5°	1473.9	1529.2	1582.1	1674.2	1701.9	1731.8	1718.0	1625.9	1570.6	1483.1	1457.8
50°	1464.7	1485.4	1582.1	1632.8	1671.9	1701.9	1665.0	1595.9	1543.0	1453.2	1397.9
52.5°	1427.8	1467.0	1529.2	1595.9	1644.3	1681.2	1621.3	1577.5	1506.1	1411.7	1377.2
55°	1381.8	1404.8	1515.3	1584.4	1609.8	1635.1	1612.1	1540.7	1467.0	1370.3	1335.7
57.5°	1321.9	1374.9	1464.7	1561.4	1593.6	1607.5	1570.6	1513.0	1420.9	1335.7	1280.4
60°	1259.7	1315.0	1414.0	1492.3	1524.6	1575.2	1519.9	1485.4	1379.5	1285.0	1225.2
62.5°	1197.5	1259.7	1333.4	1432.4	1460.1	1480.8	1467.0	1418.6	1333.4	1227.5	1153.8
65°	1123.8	1169.9	1262.0	1312.7	1331.1	1379.5	1331.1	1312.7	1236.7	1135.4	1073.2
67.5°	1013.3	1052.4	1133.1	1181.4	1195.2	1216.0	1213.7	1192.9	1107.7	1038.6	983.4
70°	886.6	921.2	971.8	1029.4	1036.3	1061.7	1038.6	1034.0	978.8	884.3	854.4
72.5°	711.6	743.9	810.6	836.0	838.3	847.5	836.0	819.9	806.0	707.0	677.1
75°	545.8	564.2	596.5	619.5	619.5	631.0	624.1	608.0	571.1	509.0	479.0
77.5°	380.0	398.4	439.9	453.7	451.4	456.0	435.3	419.1	363.9	331.6	306.3
80°	276.4	287.9	308.6	317.8	320.1	327.0	301.7	287.9	255.6	218.8	207.3
82.5°	200.4	207.3	209.6	221.1	221.1	209.6	202.7	188.8	165.8	142.8	133.6
85°	82.9	85.2	87.5	101.3	103.6	124.4	115.1	108.2	94.4	80.6	73.7
87.5°	20.7	23.0	29.9	25.3	29.9	29.9	32.2	36.8	36.8	29.9	29.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6
2.5°	6280.1	6298.6	6533.5	6563.4	6678.6	6796.0	7033.2	7203.6	7341.8	7431.6	7457.0
5°	5315.2	5432.7	5540.9	5715.9	5874.8	6100.5	6360.8	6683.2	7088.5	7295.7	7378.7
7.5°	4161.4	4299.6	4456.2	4626.6	4859.2	5264.5	5612.3	5985.4	6503.5	6717.7	7042.4
10°	3396.9	3551.2	3758.4	3889.7	4170.6	4557.5	4962.9	5393.5	5888.6	6197.2	6572.6
12.5°	3003.0	3129.7	3320.9	3597.2	3806.8	4057.8	4359.5	4903.0	5612.3	5904.8	6162.7
15°	2567.8	2708.3	2929.4	3235.6	3486.7	3786.1	4124.6	4716.4	5471.8	5923.2	6142.0
17.5°	2208.5	2309.9	2542.5	2807.3	3095.2	3422.2	3908.1	4707.2	5619.2	6197.2	6554.2
20°	1959.8	1973.6	2100.3	2326.0	2717.5	3143.5	3774.5	4661.2	6091.3	6669.3	7120.7
22.5°	1803.2	1789.4	1791.7	1982.8	2256.9	2869.5	3565.0	4817.8	6627.9	7420.1	7724.1
25°	1724.9	1688.1	1665.0	1706.5	1955.2	2544.8	3406.1	5025.0	7205.9	8039.6	8412.7
27.5°	1683.5	1619.0	1572.9	1579.8	1761.8	2381.3	3307.0	5114.9	7779.4	8903.2	9034.5
30°	1667.3	1586.7	1519.9	1496.9	1616.7	2153.3	3095.2	5269.2	8292.9	9377.6	9490.5
32.5°	1609.8	1510.7	1446.3	1425.5	1473.9	1952.9	2943.2	5379.7	8746.6	9893.5	9854.3
35°	1543.0	1460.1	1379.5	1340.3	1374.9	1823.9	2821.1	5326.7	9280.9	10294.2	10273.5
37.5°	1536.1	1427.8	1361.0	1296.6	1294.3	1665.0	2655.3	5377.4	9621.7	11012.7	10729.4
40°	1476.2	1407.1	1319.6	1266.6	1236.7	1584.4	2494.1	5257.6	10121.5	11302.9	11024.2
42.5°	1478.5	1374.9	1298.9	1236.7	1206.7	1467.0	2383.6	5225.4	10296.5	11775.0	11162.4
45°	1441.6	1340.3	1275.8	1202.1	1186.0	1377.2	2277.6	5075.7	10605.1	11798.0	10989.7
47.5°	1404.8	1315.0	1245.9	1158.4	1121.5	1344.9	2194.7	4951.3	10443.9	11581.5	10750.2
50°	1379.5	1275.8	1211.4	1149.2	1045.5	1289.7	2086.5	4921.4	10218.2	11289.1	10305.7
52.5°	1335.7	1243.6	1176.8	1128.4	962.6	1239.0	2045.0	5096.4	10494.5	11070.3	10176.7
55°	1294.3	1199.8	1114.6	1020.2	893.5	1105.4	1929.9	5259.9	10897.6	11574.6	10761.7
57.5°	1250.5	1160.7	1068.6	955.7	826.8	967.2	1810.1	5289.9	10142.2	10697.2	10215.9
60°	1192.9	1077.8	1008.7	861.3	755.4	801.4	1434.7	4663.5	7866.9	8933.1	8949.3
62.5°	1128.4	1004.1	944.2	771.5	681.7	690.9	1169.9	3919.6	6381.5	7394.8	7834.6
65°	1043.2	923.5	852.1	713.9	628.7	598.8	856.7	2871.8	4847.7	5999.2	6498.9
67.5°	932.7	819.9	730.0	621.8	561.9	513.6	584.9	1616.7	2862.6	4027.9	4179.9
70°	815.2	718.5	624.1	534.3	467.5	433.0	428.3	716.2	1368.0	2167.1	2466.5
72.5°	642.5	573.4	497.4	430.7	386.9	336.2	306.3	297.1	462.9	882.0	1218.3
75°	460.6	403.0	359.3	315.5	283.3	255.6	232.6	211.9	193.4	221.1	304.0
77.5°	290.2	269.4	234.9	223.4	205.0	198.1	188.8	177.3	163.5	154.3	154.3
80°	195.8	181.9	170.4	168.1	161.2	158.9	161.2	149.7	135.9	124.4	129.0
82.5°	131.3	129.0	126.7	124.4	126.7	129.0	133.6	131.3	119.8	112.8	115.1
85°	78.3	82.9	87.5	92.1	101.3	89.8	73.7	62.2	55.3	50.7	48.4
87.5°	29.9	41.5	36.8	34.5	36.8	34.5	32.2	29.9	25.3	23.0	23.0
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: P529850

CATALOG NUMBER: GALN-SA5A-735-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6	7051.6
2.5°	7625.1	7671.1	7710.3	7701.1	7620.5	7512.2	7468.5	7245.1	7199.0	7169.1
5°	7728.7	7995.8	8053.4	8018.9	7809.3	7544.5	7286.5	6959.5	6768.4	6761.5
7.5°	7537.6	7866.9	7970.5	8048.8	7770.2	7309.6	6867.4	6376.9	6257.1	6266.3
10°	7051.6	7576.7	7832.3	7912.9	7592.8	7194.4	6581.8	6084.4	5828.8	5824.2
12.5°	6782.2	7194.4	7265.8	7378.7	7284.2	6881.2	6416.0	5858.7	5610.0	5605.4
15°	6542.7	6814.4	6835.2	6994.1	7044.7	6773.0	6459.8	5865.6	5665.3	5644.5
17.5°	6752.3	6563.4	6485.1	6505.8	6655.5	6754.6	6713.1	6257.1	6052.2	5937.0
20°	6892.7	6471.3	6234.1	6257.1	6434.4	6796.0	7090.8	6823.6	6498.9	6512.7
22.5°	7268.1	6485.1	6114.3	6089.0	6370.0	7012.5	7516.8	7539.9	7226.7	7150.7
25°	7830.0	6644.0	6077.5	6070.6	6340.0	7245.1	8014.3	8387.3	8067.2	7926.8
27.5°	8281.4	6892.7	6192.6	6215.7	6434.4	7433.9	8438.0	8933.1	8689.0	8516.3
30°	8677.5	7150.7	6353.8	6247.9	6687.8	7533.0	8619.9	9554.9	9359.2	9216.4
32.5°	8841.0	7516.8	6609.5	6434.4	6897.3	7652.7	8997.6	10158.3	9990.2	9637.8
35°	9117.4	7721.8	6747.6	6733.8	7263.5	7940.6	9175.0	10556.7	10487.6	10174.4
37.5°	9338.5	7929.1	7238.2	7086.2	7765.6	8424.2	9460.5	11107.1	10948.2	10800.8
40°	9508.9	8299.8	7696.5	7896.8	8382.7	8864.1	9723.1	11141.7	11600.0	11171.6
42.5°	9352.3	8631.5	8449.5	8928.5	9389.1	9366.1	9753.0	11408.8	11752.0	11528.6
45°	9313.1	9193.4	9640.2	10075.4	10181.3	9782.9	9538.8	11114.0	11705.9	11606.9
47.5°	9218.7	9746.1	10524.5	11233.8	11072.6	10061.6	9283.2	11061.1	11733.5	11556.2
50°	9186.5	9865.8	11178.5	11869.4	11772.7	10303.4	9163.4	10720.2	11537.8	11521.7
52.5°	9184.2	10112.3	11450.3	12214.9	12274.7	10685.7	9327.0	10893.0	11689.8	11825.7
55°	9287.8	10034.0	11415.7	12023.7	12000.7	10515.3	9345.4	11008.1	11876.3	12009.9
57.5°	8760.4	8988.4	9421.4	9902.7	9778.3	8709.8	8345.9	10176.7	10899.9	10803.1
60°	7565.2	6851.3	6363.1	6340.0	6098.2	5764.3	6830.6	9082.8	9082.8	8988.4
62.5°	6625.6	4497.7	3864.4	3684.7	3857.4	4242.0	6588.7	8834.1	8583.1	8474.9
65°	5794.2	3433.7	2793.5	2742.8	3042.2	3622.5	5957.7	7526.0	7083.9	6724.6
67.5°	3728.5	2514.8	2077.3	1987.4	2349.0	2659.9	3965.7	4628.9	4350.3	4209.8
70°	2404.3	1637.4	1156.1	1084.7	1225.2	1639.7	2533.2	2699.1	2293.7	2199.3
72.5°	1137.7	707.0	405.3	333.9	375.4	626.4	1001.8	1077.8	895.8	819.9
75°	361.6	260.2	165.8	142.8	135.9	161.2	230.3	177.3	129.0	126.7
77.5°	161.2	154.3	131.3	110.5	96.7	80.6	66.8	55.3	57.6	59.9
80°	133.6	122.1	108.2	96.7	80.6	62.2	48.4	36.8	36.8	39.2
82.5°	117.5	105.9	94.4	80.6	69.1	50.7	36.8	25.3	23.0	23.0
85°	50.7	59.9	64.5	69.1	55.3	41.5	25.3	16.1	13.8	13.8
87.5°	20.7	18.4	16.1	13.8	11.5	11.5	9.2	6.9	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)