

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: P529146

Luminaire Tested: **GALN-SA4B-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529146
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-SA4B-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 15617 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

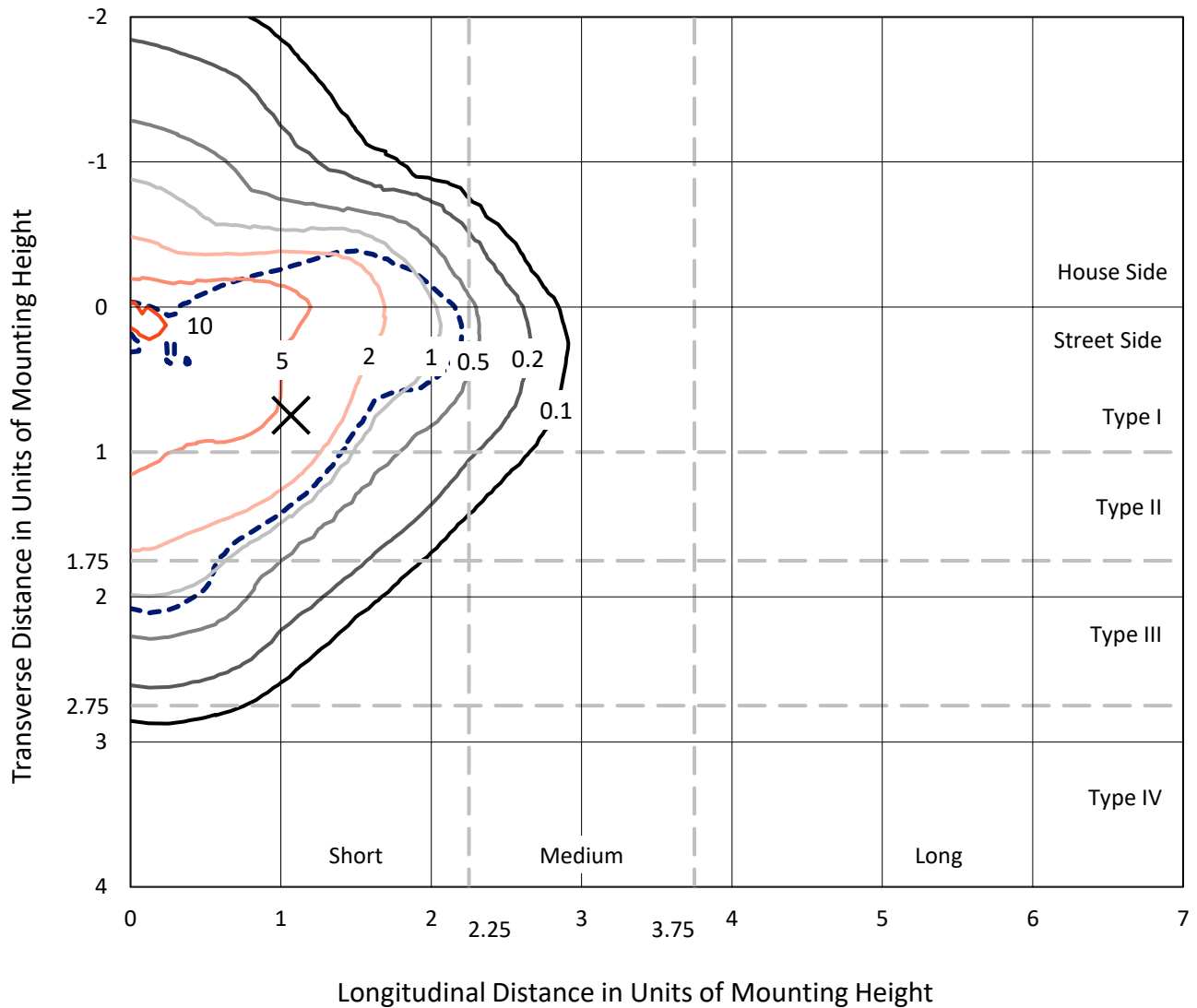
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

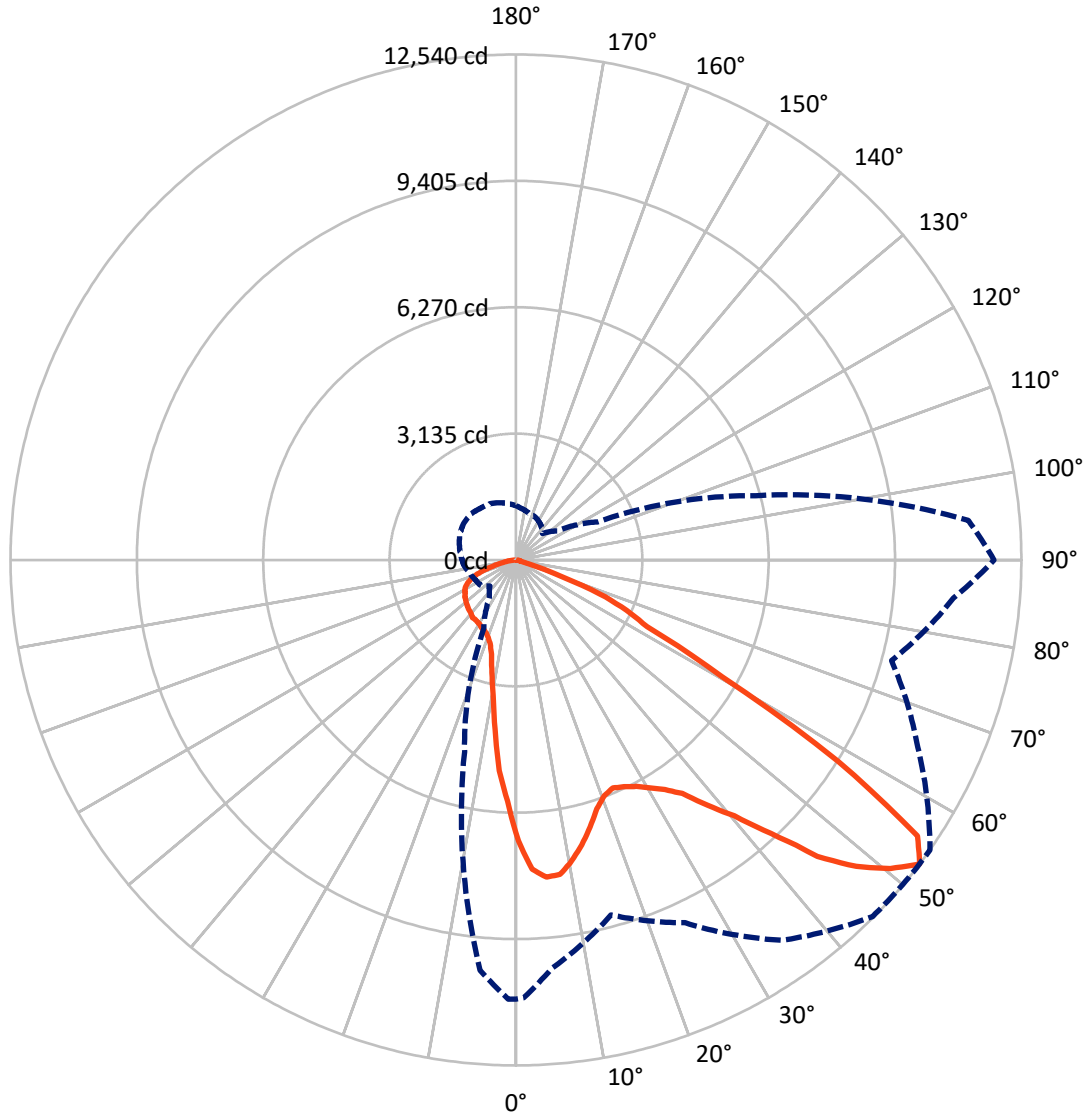
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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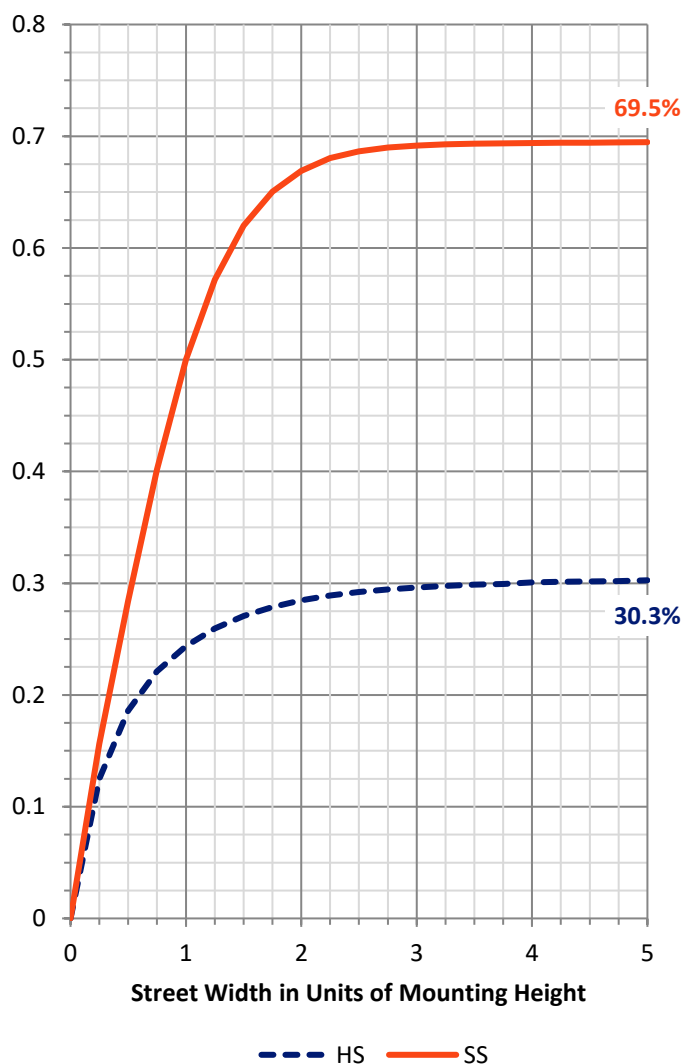
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4764.0	0.0	4764.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10853.0	0.0	10853.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	15617.0	0.0	15617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.2	3.4
10°-20°	1147.5	7.3
20°-30°	1740.0	11.1
30°-40°	2514.1	16.1
40°-50°	3359.5	21.5
50°-60°	3749.9	24.0
60°-70°	2057.0	13.2
70°-80°	444.7	2.8
80°-90°	71.9	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°	15617.0	100.0
0°-180°	15617.0	100.0

Coefficient of Utilization



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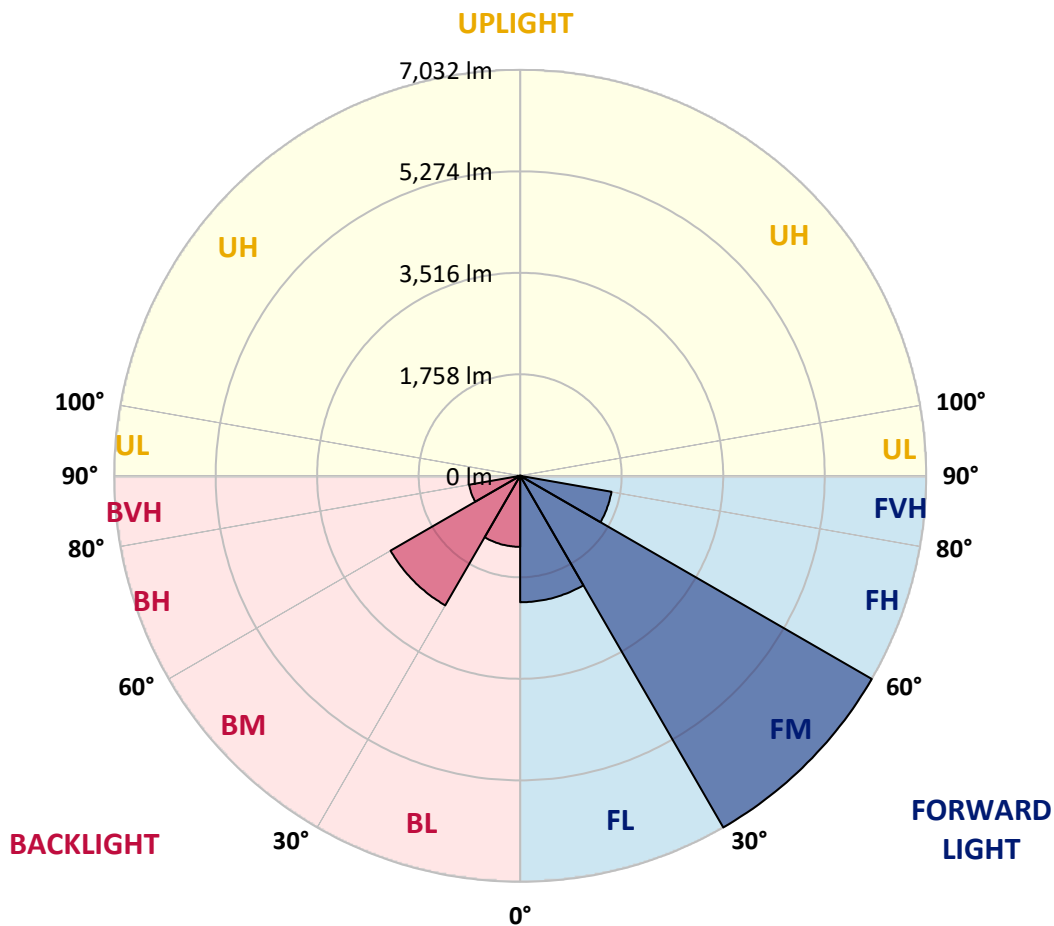
CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.8	14.0			
FM (30°-60°)	7031.5	45.0			
FH (60°-80°)	1605.0	10.3			G1/1800
FVH (80°-90°)	26.6	0.2			G1/100
BL (0°-30°)	1230.0	7.9	B3/2500		
BM (30°-60°)	2592.0	16.6	B3/5000		
BH (60°-80°)	896.7	5.7	B2/1000		G2/1000
BVH (80°-90°)	45.3	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°	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4
2.5°	7310.7	7269.7	7306.2	7479.5	7579.8	7648.2	7691.5	7684.7	7520.5	7360.9	7360.9
5°	7096.4	7043.9	7119.2	7511.4	7905.9	7940.1	7997.1	7903.6	7661.9	7370.0	7005.2
7.5°	6476.1	6514.9	6640.3	7155.7	7668.7	7926.4	7994.8	7876.2	7484.0	6939.0	6403.1
10°	5940.2	6031.5	6321.1	6877.5	7349.5	7684.7	7759.9	7593.5	7283.4	6615.2	6136.4
12.5°	5755.5	5698.5	6020.1	6576.5	7028.0	7208.1	7242.3	7253.7	7043.9	6451.0	5867.3
15°	5732.7	5769.2	6020.1	6441.9	6720.1	6729.2	6786.2	6875.2	6902.5	6562.8	5992.7
17.5°	6061.1	6017.8	6275.5	6610.7	6478.4	6346.1	6359.8	6487.5	6713.3	6658.5	6387.2
20°	6546.8	6644.9	6847.8	6813.6	6457.9	6122.7	6125.0	6245.8	6690.5	7055.3	6936.7
22.5°	7354.0	7449.8	7600.3	7187.6	6457.9	6056.5	5979.0	6143.2	6836.4	7527.3	7557.0
25°	8090.6	8266.2	8307.2	7821.5	6781.7	6118.1	6067.9	6229.8	6982.4	7988.0	8268.5
27.5°	8761.0	8824.9	9005.0	8229.7	6961.8	6159.2	6154.6	6362.1	7167.1	8218.3	8904.7
30°	9290.0	9283.2	9385.8	8487.4	7249.2	6389.5	6168.3	6560.5	7408.8	8599.1	9493.0
32.5°	9650.3	9727.9	9944.5	8845.4	7370.0	6608.4	6435.1	6793.1	7702.9	8779.2	9908.0
35°	10284.3	10418.8	10145.2	9043.8	7753.1	6825.0	6622.1	7110.1	7848.9	8975.4	10416.5
37.5°	10881.7	10779.1	10500.9	9150.9	8001.7	7226.3	7037.1	7723.5	8302.7	9401.8	10754.0
40°	11264.8	11262.5	10767.7	9237.6	8177.2	7839.8	7828.4	8346.0	8859.1	9670.9	11132.5
42.5°	11431.3	11590.9	10877.1	9228.5	8546.7	8583.1	8813.5	9276.4	9253.6	9725.6	11123.4
44°	11659.3	11755.1	11066.4	9249.0	8792.9	9084.8	9627.5	9921.7	9597.9	9695.9	11112.0
45°	11650.2	11657.0	10797.3	9276.4	9002.7	9504.4	9990.1	10487.2	9901.2	9632.1	11262.5
47.5°	11383.4	11305.8	10569.3	9073.4	9657.2	10612.6	11061.9	11362.9	10275.1	9495.3	11075.5
50°	10856.6	10767.7	10015.2	8986.8	9794.0	11301.3	11921.5	12031.0	10614.9	9360.7	10890.8
52.5°	10893.1	10868.0	10172.5	9116.7	9930.8	11517.9	12512.1	12539.5	11000.3	9643.5	10893.1
55°	11545.3	11458.6	10624.0	9278.6	9830.5	11264.8	12135.9	12088.0	10870.3	9472.5	11093.8
57.5°	10564.7	10621.7	9999.2	8637.9	8603.7	9157.8	9540.9	9422.3	9071.1	8548.9	10320.7
60°	8523.9	8685.8	8745.0	7224.1	6492.1	6207.0	6093.0	5883.2	5942.5	7023.4	9066.6
62.5°	7310.7	7301.6	7673.3	6549.1	4252.8	3657.6	3602.9	3650.8	4334.9	6913.9	8879.6
65°	5796.6	5951.6	6065.7	5550.3	3365.8	2715.9	2713.6	3016.9	3751.1	5778.3	7169.3
67.5°	3680.4	3883.4	4024.8	3550.5	2250.7	1933.7	1881.3	2246.1	2599.6	3789.9	4316.7
70°	2075.1	2170.9	2234.7	2047.7	1432.0	1003.3	944.1	1030.7	1571.1	2453.6	2558.5
72.5°	800.4	843.7	930.4	937.2	540.4	323.8	262.2	314.7	661.3	971.4	925.8
75°	123.1	132.3	187.0	223.5	155.1	118.6	125.4	130.0	184.7	250.8	209.8
77.5°	59.3	59.3	57.0	66.1	77.5	84.4	91.2	100.3	109.5	120.9	116.3
80°	38.8	38.8	38.8	45.6	57.0	68.4	77.5	82.1	86.7	95.8	91.2
82.5°	25.1	25.1	25.1	34.2	45.6	57.0	61.6	73.0	82.1	95.8	88.9
85°	13.7	13.7	13.7	22.8	34.2	47.9	45.6	36.5	20.5	2.3	4.6
87.5°	4.6	4.6	4.6	4.6	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°	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4
2.5°	7169.3	7064.4	7055.3	6841.0	6649.4	6555.9	6480.7	6270.9	6316.5	6195.6	6193.4
5°	6822.7	6608.4	6261.8	5976.7	5691.7	5634.7	5386.1	5169.5	5176.3	5021.3	5048.6
7.5°	6200.2	6052.0	5630.1	5183.2	4804.6	4535.6	4300.7	4159.3	3979.2	3917.6	3885.7
10°	5805.7	5623.3	5149.0	4588.0	4163.9	4020.2	3794.5	3669.0	3484.3	3393.1	3329.3
12.5°	5632.4	5365.6	4772.7	4202.6	3919.9	3771.7	3580.1	3352.1	3133.2	3048.8	2932.5
15°	5650.6	5331.4	4663.3	4047.6	3707.8	3420.5	3249.5	2996.3	2772.9	2624.7	2540.3
17.5°	5926.6	5538.9	4713.4	3929.0	3441.0	3080.7	2745.5	2471.9	2294.0	2182.3	2154.9
20°	6578.7	6052.0	4797.8	3737.5	3174.2	2725.0	2312.2	2027.2	1890.4	1888.1	1890.4
22.5°	7121.5	6599.3	4968.8	3623.4	2907.4	2268.9	1858.5	1767.3	1739.9	1796.9	1803.7
25°	7853.4	7214.9	5263.0	3564.1	2661.1	1933.7	1680.6	1646.4	1644.1	1717.1	1719.4
27.5°	8603.7	7753.1	5438.6	3390.8	2410.3	1760.4	1573.4	1566.6	1603.1	1680.6	1673.8
30°	9114.5	8204.6	5755.5	3183.3	2113.9	1607.6	1530.1	1539.2	1589.4	1648.7	1657.8
32.5°	9709.6	8649.3	5837.6	3069.3	1931.4	1479.9	1425.2	1445.7	1509.6	1603.1	1653.2
35°	10391.4	8964.0	5963.0	2914.3	1863.0	1381.9	1354.5	1377.3	1454.8	1516.4	1571.1
37.5°	10895.4	9520.4	5985.9	2793.4	1787.8	1327.1	1283.8	1359.1	1404.7	1491.3	1518.7
40°	11269.4	9924.0	6045.1	2718.1	1728.5	1256.5	1256.5	1306.6	1368.2	1448.0	1502.7
42.5°	11508.8	10218.1	6088.5	2649.7	1614.5	1235.9	1224.5	1274.7	1356.8	1434.3	1459.4
44°	11654.7	10343.5	6045.1	2585.9	1582.5	1210.9	1210.9	1254.2	1318.0	1409.2	1438.9
45°	11691.2	10500.9	5949.4	2583.6	1543.8	1181.2	1176.6	1258.7	1302.1	1413.8	1432.0
47.5°	11832.6	10694.7	5960.8	2510.6	1450.3	1110.5	1190.3	1226.8	1265.6	1363.6	1425.2
50°	11828.0	10815.6	5935.7	2403.5	1381.9	1030.7	1163.0	1204.0	1242.8	1343.1	1368.2
52.5°	11860.0	11267.1	6166.0	2232.4	1258.7	928.1	1071.8	1163.0	1210.9	1295.2	1347.7
55°	11844.0	11524.8	6394.0	2104.7	1085.4	866.5	994.2	1101.4	1169.8	1258.7	1283.8
57.5°	10817.9	10186.2	5917.4	1865.3	898.4	793.6	884.8	1037.5	1124.2	1215.4	1247.3
60°	8838.5	7851.2	4879.9	1372.8	738.8	729.7	823.2	1017.0	1053.5	1133.3	1188.0
62.5°	8168.1	6886.6	3869.7	1048.9	631.6	668.1	759.3	919.0	976.0	1074.0	1124.2
65°	6391.7	4574.3	2396.6	709.2	556.4	599.7	686.4	805.0	898.4	989.7	1048.9
67.5°	3785.3	2499.2	1185.8	497.1	485.7	531.3	620.2	709.2	816.4	916.7	946.3
70°	2061.4	1229.1	506.2	378.5	412.7	453.8	540.4	602.0	704.6	782.2	832.3
72.5°	661.3	374.0	253.1	280.5	314.7	362.6	415.0	490.3	563.2	608.8	649.9
75°	159.6	157.3	180.1	196.1	228.0	264.5	307.8	346.6	403.6	446.9	483.4
77.5°	111.7	120.9	139.1	161.9	173.3	187.0	214.4	244.0	269.1	301.0	323.8
80°	86.7	93.5	107.2	118.6	130.0	141.4	155.1	166.5	182.4	202.9	214.4
82.5°	82.1	86.7	100.3	107.2	102.6	100.3	109.5	114.0	116.3	123.1	130.0
85°	6.8	0.0	4.6	16.0	38.8	57.0	61.6	61.6	59.3	63.8	63.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.1	6.8
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°	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4
2.5°	6166.0	6088.5	6118.1	6154.6	6102.1	5981.3	6013.2	5999.5	6122.7	6113.5	6236.7
5°	5169.5	5048.6	5062.3	5240.2	5183.2	5244.7	5121.6	5105.6	5128.4	5139.9	5160.4
7.5°	3956.4	3940.4	4077.2	4227.7	4298.4	4225.4	4104.6	4077.2	4052.1	4002.0	4116.0
10°	3228.9	3233.5	3224.4	3338.4	3418.2	3402.2	3329.3	3320.2	3272.3	3254.0	3317.9
12.5°	2882.3	2820.8	2791.1	2754.6	2816.2	2857.2	2825.3	2802.5	2804.8	2827.6	2836.7
15°	2547.1	2508.4	2444.5	2403.5	2433.1	2412.6	2401.2	2446.8	2435.4	2430.8	2485.6
17.5°	2170.9	2202.8	2198.2	2152.6	2191.4	2175.4	2173.1	2141.2	2097.9	2066.0	2084.2
20°	1922.3	1981.6	2027.2	2029.5	2050.0	2047.7	2013.5	1915.5	1883.5	1876.7	1881.3
22.5°	1833.4	1865.3	1920.0	1997.6	1997.6	1961.1	1920.0	1806.0	1776.4	1744.4	1730.8
25°	1762.7	1824.3	1894.9	1904.1	1940.6	1906.4	1840.2	1783.2	1721.6	1678.3	1678.3
27.5°	1726.2	1794.6	1847.1	1863.0	1913.2	1885.8	1817.4	1744.4	1671.5	1669.2	1630.4
30°	1710.2	1774.1	1808.3	1847.1	1869.9	1826.5	1806.0	1728.5	1655.5	1637.3	1573.4
32.5°	1662.4	1753.6	1817.4	1808.3	1826.5	1808.3	1778.7	1714.8	1632.7	1591.7	1584.8
35°	1607.6	1698.8	1767.3	1815.1	1826.5	1787.8	1769.5	1682.9	1571.1	1550.6	1479.9
37.5°	1578.0	1632.7	1717.1	1794.6	1810.6	1790.1	1728.5	1639.6	1527.8	1505.0	1443.4
40°	1541.5	1612.2	1678.3	1742.2	1790.1	1739.9	1669.2	1582.5	1532.4	1464.0	1445.7
42.5°	1514.1	1593.9	1648.7	1719.4	1774.1	1708.0	1625.9	1566.6	1495.9	1450.3	1397.8
44°	1505.0	1578.0	1614.5	1701.1	1746.7	1696.6	1628.2	1566.6	1484.5	1443.4	1397.8
45°	1473.1	1573.4	1612.2	1689.7	1728.5	1687.4	1600.8	1539.2	1479.9	1429.8	1381.9
47.5°	1441.2	1509.6	1575.7	1637.3	1664.6	1651.0	1578.0	1502.7	1432.0	1402.4	1356.8
50°	1432.0	1500.5	1562.0	1619.0	1651.0	1623.6	1557.5	1484.5	1402.4	1354.5	1315.7
52.5°	1386.4	1470.8	1539.2	1557.5	1598.5	1582.5	1532.4	1452.6	1375.0	1334.0	1302.1
55°	1320.3	1409.2	1502.7	1525.5	1584.8	1559.7	1484.5	1409.2	1343.1	1281.5	1240.5
57.5°	1295.2	1381.9	1473.1	1502.7	1539.2	1498.2	1479.9	1400.1	1295.2	1263.3	1199.5
60°	1231.4	1340.8	1416.1	1484.5	1486.8	1475.4	1443.4	1352.2	1265.6	1206.3	1160.7
62.5°	1181.2	1283.8	1343.1	1407.0	1445.7	1413.8	1381.9	1297.5	1204.0	1137.9	1085.4
65°	1108.2	1201.7	1251.9	1290.7	1334.0	1329.4	1274.7	1213.1	1115.1	1062.6	1012.5
67.5°	996.5	1078.6	1147.0	1183.5	1210.9	1204.0	1163.0	1119.6	1019.3	966.9	930.4
70°	862.0	946.3	989.7	1010.2	1037.5	1051.2	1019.3	998.8	909.8	841.4	807.2
72.5°	693.2	747.9	811.8	830.0	841.4	850.6	850.6	832.3	741.1	713.7	654.5
75°	510.8	554.1	602.0	602.0	622.5	624.8	629.4	618.0	549.6	513.1	499.4
77.5°	346.6	378.5	417.3	433.3	446.9	444.7	442.4	410.5	374.0	358.0	344.3
80°	225.8	257.7	275.9	296.4	310.1	307.8	312.4	289.6	273.6	246.3	250.8
82.5°	134.5	159.6	177.9	202.9	202.9	209.8	209.8	202.9	187.0	173.3	173.3
85°	63.8	84.4	95.8	111.7	120.9	123.1	109.5	93.5	77.5	70.7	77.5
87.5°	11.4	16.0	22.8	20.5	25.1	22.8	22.8	22.8	22.8	18.2	20.5
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: P529146

CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4	6966.4
2.5°	6191.1	6305.1	6384.9	6517.2	6745.2	6927.6	7114.6	7253.7	7269.7	7310.7
5°	5235.6	5297.2	5500.1	5764.7	5951.6	6259.5	6457.9	6818.2	6952.7	7096.4
7.5°	4088.6	4189.0	4460.3	4638.2	5048.6	5434.0	5833.1	6277.7	6455.6	6476.1
10°	3447.8	3593.8	3778.5	4063.5	4287.0	4715.7	5212.8	5707.7	5906.0	5940.2
12.5°	3028.3	3215.3	3461.5	3666.8	3881.1	4255.1	4731.7	5342.8	5600.5	5755.5
15°	2624.7	2818.5	3089.8	3374.9	3564.1	4011.1	4572.0	5260.7	5595.9	5732.7
17.5°	2209.6	2389.8	2613.3	2921.1	3301.9	3803.6	4547.0	5534.3	5901.5	6061.1
20°	1853.9	1954.2	2214.2	2531.2	3007.7	3591.5	4556.1	5938.0	6476.1	6546.8
22.5°	1714.8	1737.6	1840.2	2132.1	2654.3	3374.9	4718.0	6510.3	7121.5	7354.0
25°	1607.6	1603.1	1630.4	1826.5	2396.6	3290.5	4877.6	7037.1	7837.5	8090.6
27.5°	1548.3	1502.7	1505.0	1689.7	2214.2	3153.7	5082.8	7641.4	8649.3	8761.0
30°	1518.7	1509.6	1482.2	1557.5	2015.8	2948.5	5117.0	8236.5	9128.1	9290.0
32.5°	1500.5	1411.5	1377.3	1404.7	1828.8	2725.0	5244.7	8628.7	9721.0	9650.3
35°	1409.2	1329.4	1306.6	1334.0	1696.6	2599.6	5160.4	8970.8	10165.7	10284.3
37.5°	1375.0	1304.3	1258.7	1235.9	1573.4	2494.7	5117.0	9497.5	10596.7	10881.7
40°	1343.1	1267.9	1213.1	1190.3	1477.6	2355.6	5103.4	9903.4	11093.8	11264.8
42.5°	1306.6	1258.7	1197.2	1156.1	1361.4	2216.5	4946.0	10028.9	11246.6	11431.3
44°	1295.2	1222.3	1158.4	1144.7	1315.7	2145.8	4914.1	10142.9	11378.8	11659.3
45°	1283.8	1215.4	1142.4	1124.2	1299.8	2107.0	4870.8	10170.2	11597.7	11650.2
47.5°	1251.9	1208.6	1137.9	1087.7	1265.6	2022.6	4740.8	10015.2	11374.3	11383.4
50°	1226.8	1176.6	1103.7	1005.6	1220.0	1952.0	4800.1	9958.2	10836.1	10856.6
52.5°	1199.5	1124.2	1083.2	914.4	1144.7	1892.7	4925.5	10215.9	10897.7	10893.1
55°	1167.5	1085.4	985.1	836.9	1019.3	1817.4	5228.8	10724.4	11467.7	11545.3
57.5°	1117.4	1046.7	903.0	768.5	875.6	1673.8	5130.7	9750.7	10551.1	10564.7
60°	1051.2	985.1	818.6	716.0	718.3	1320.3	4588.0	7598.0	8325.5	8523.9
62.5°	987.4	950.9	747.9	640.8	611.1	1051.2	3878.8	6314.2	7146.5	7310.7
65°	912.1	823.2	686.4	583.8	524.5	736.5	2747.8	4718.0	5575.4	5796.6
67.5°	816.4	720.6	604.3	513.1	449.2	492.5	1418.4	2681.7	3550.5	3680.4
70°	713.7	624.8	508.5	433.3	362.6	339.8	624.8	1279.3	1940.6	2075.1
72.5°	586.0	504.0	405.9	342.0	271.4	234.9	209.8	342.0	688.7	800.4
75°	424.1	367.1	305.6	244.0	191.5	150.5	123.1	102.6	114.0	123.1
77.5°	312.4	266.8	225.8	173.3	134.5	107.2	84.4	63.8	61.6	59.3
80°	244.0	216.6	180.1	139.1	104.9	79.8	59.3	43.3	38.8	38.8
82.5°	191.5	177.9	148.2	114.0	86.7	63.8	43.3	29.6	25.1	25.1
85°	73.0	73.0	107.2	93.5	66.1	45.6	29.6	16.0	13.7	13.7
87.5°	18.2	18.2	18.2	18.2	16.0	13.7	13.7	6.8	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)