

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: P528964

Luminaire Tested: **GALN-SA4A-750-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528964
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-SA4A-750-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 13473 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

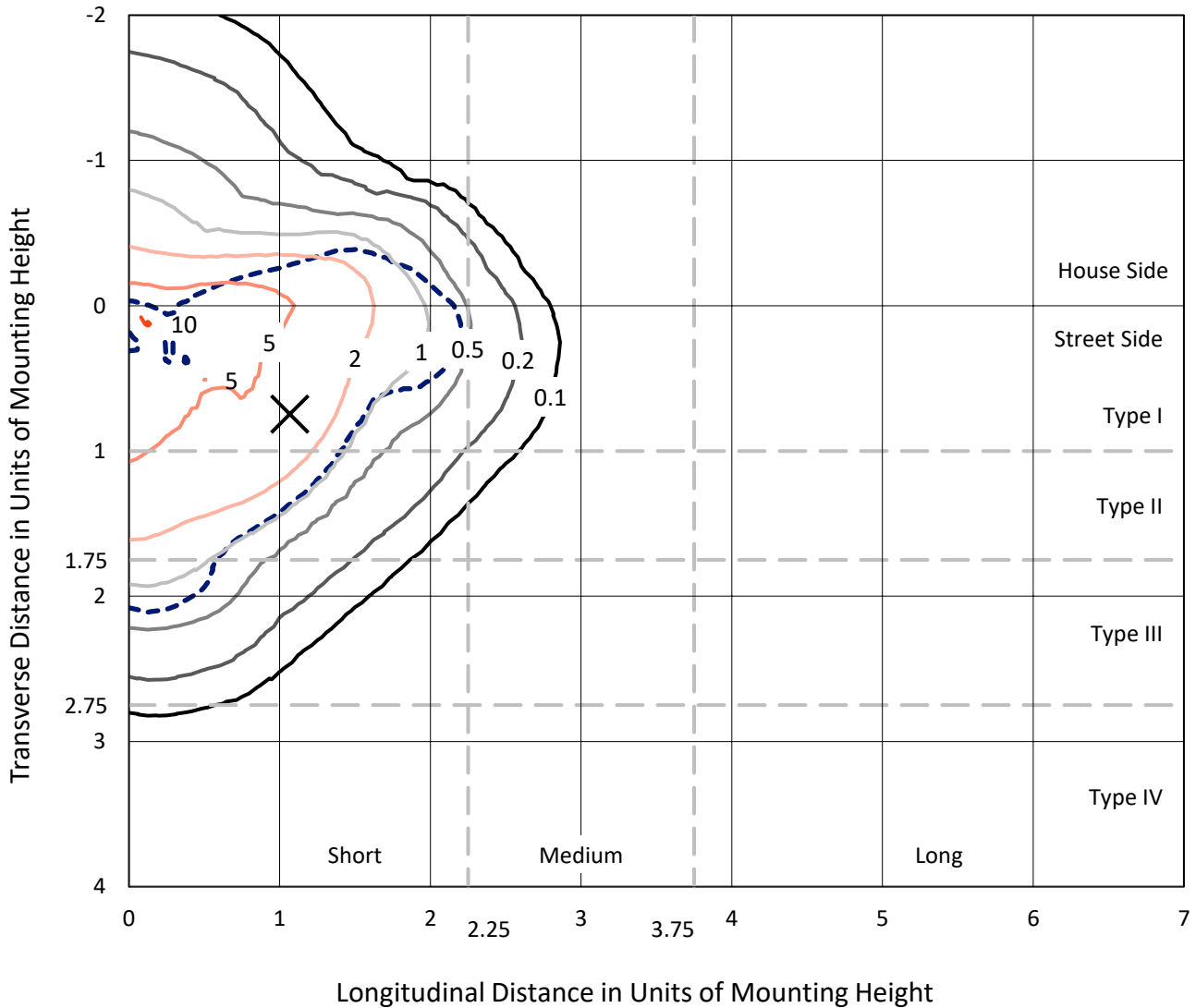
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

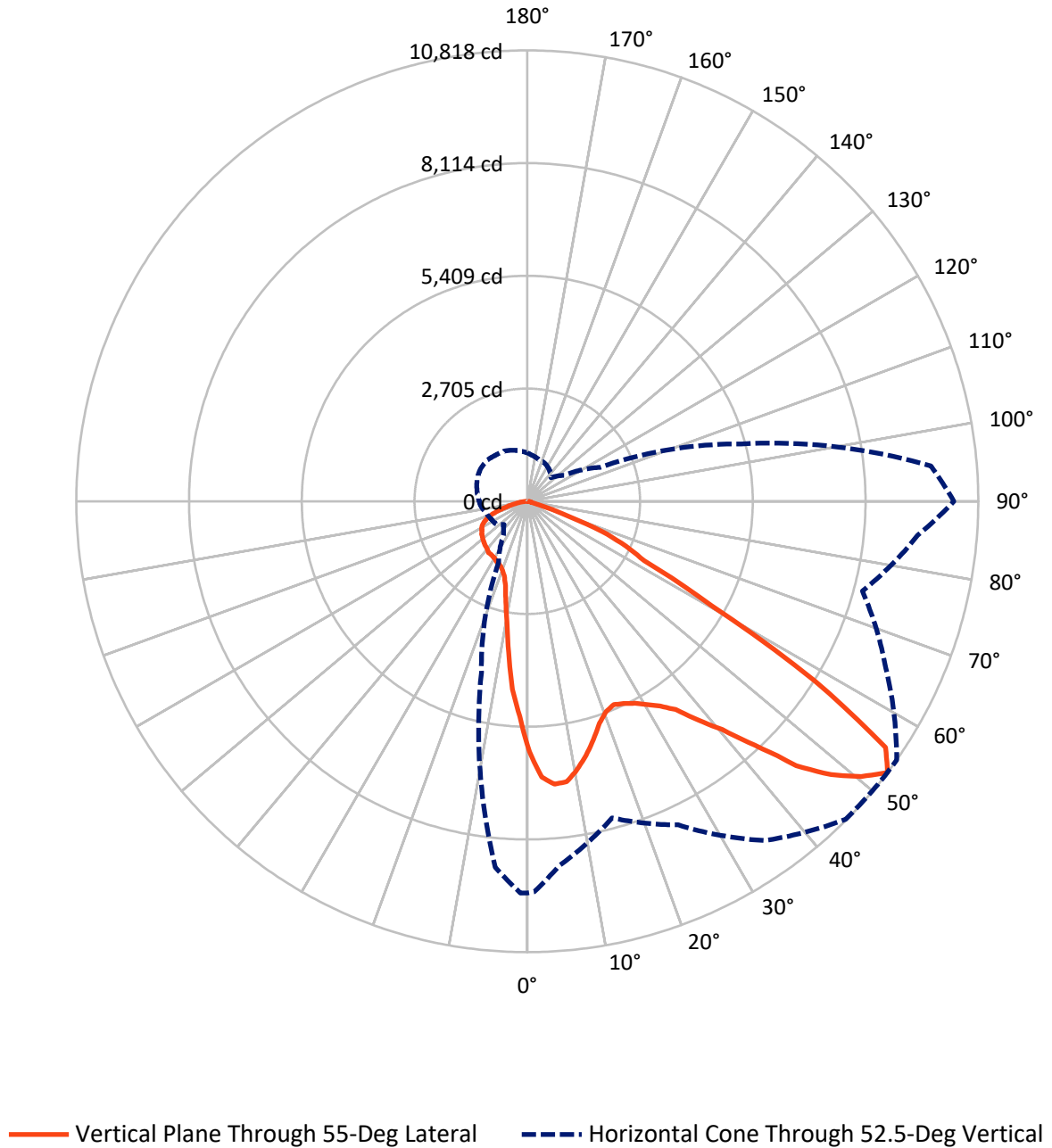
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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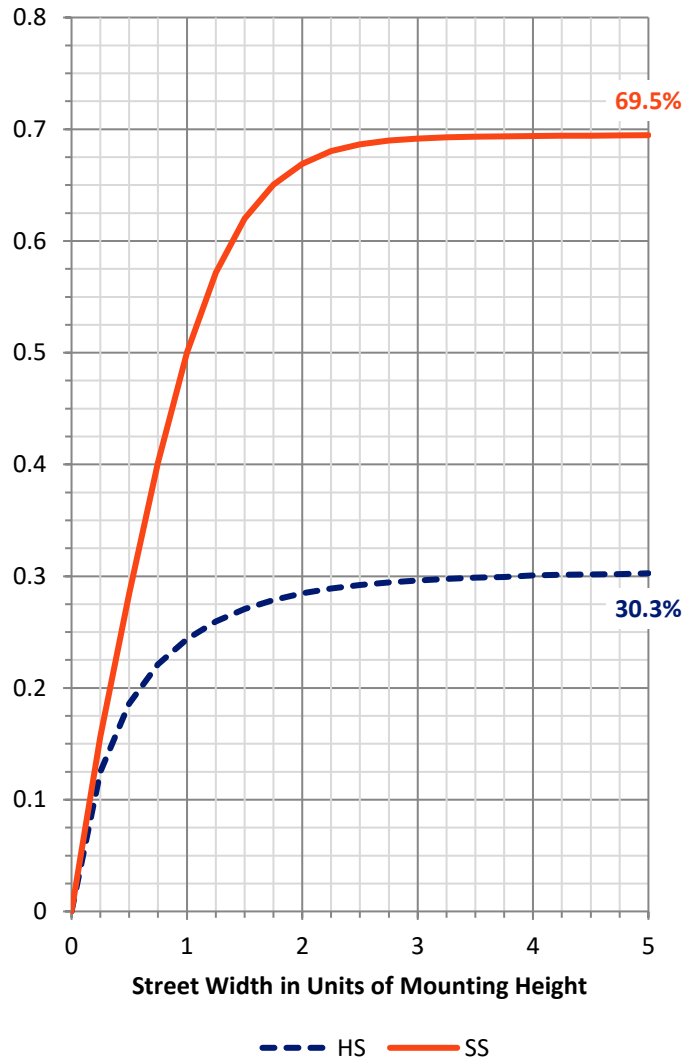
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4110.0	0.0	4110.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9363.0	0.0	9363.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	13473.0	0.0	13473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.2	3.4
10°-20°	990.0	7.3
20°-30°	1501.2	11.1
30°-40°	2168.9	16.1
40°-50°	2898.3	21.5
50°-60°	3235.1	24.0
60°-70°	1774.6	13.2
70°-80°	383.7	2.8
80°-90°	62.1	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°	13473.0	100.0
0°-180°	13473.0	100.0

Coefficient of Utilization



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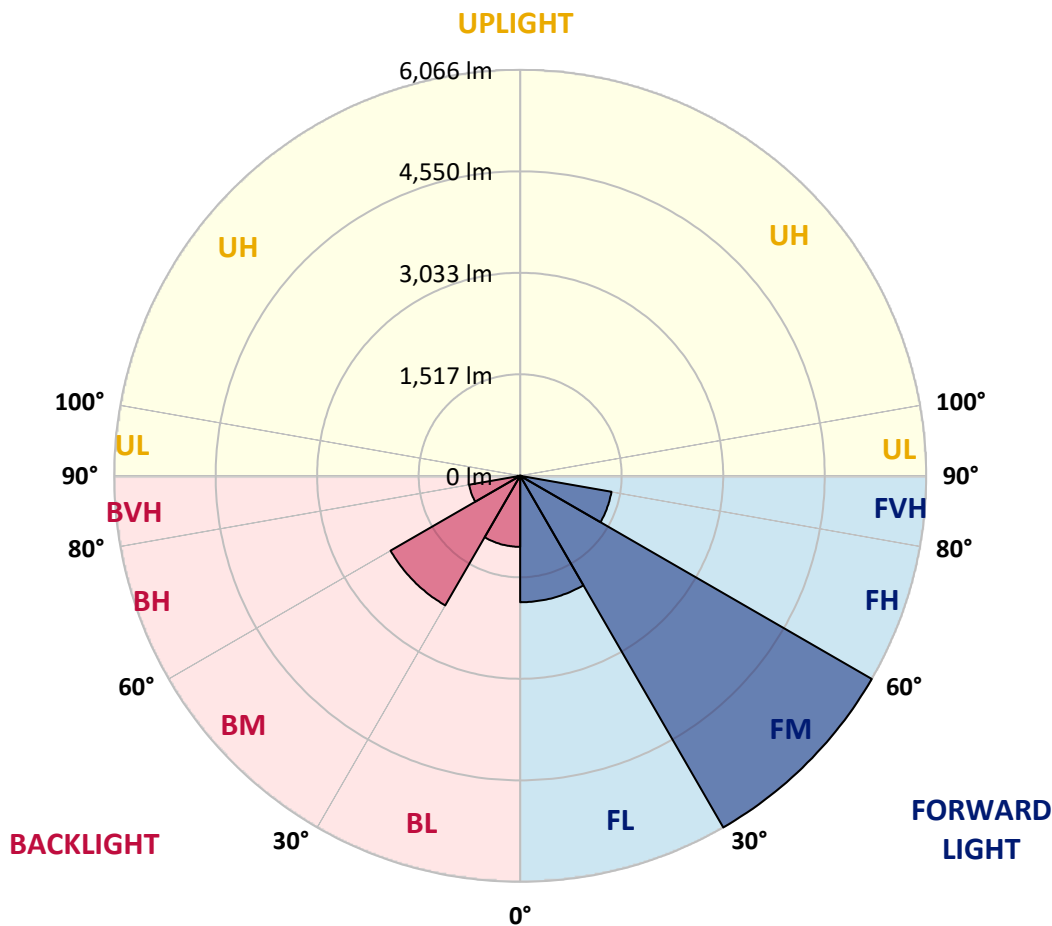
CATALOG NUMBER: GALN-SA4A-750-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1889.2	14.0			
FM (30°-60°)	6066.2	45.0			
FH (60°-80°)	1384.7	10.3			G1/1800
FVH (80°-90°)	23.0	0.2			G1/100
BL (0°-30°)	1061.1	7.9	B3/2500		
BM (30°-60°)	2236.2	16.6	B2/2500		
BH (60°-80°)	773.6	5.7	B2/1000		G2/1000
BVH (80°-90°)	39.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0
2.5°	6307.1	6271.6	6303.1	6452.6	6539.2	6598.2	6635.6	6629.7	6488.0	6350.3	6350.3
5°	6122.1	6076.9	6141.8	6480.2	6820.5	6850.0	6899.2	6818.5	6610.0	6358.2	6043.4
7.5°	5587.0	5620.5	5728.7	6173.3	6615.9	6838.2	6897.2	6794.9	6456.6	5986.4	5524.1
10°	5124.7	5203.4	5453.3	5933.3	6340.5	6629.7	6694.6	6551.0	6283.5	5707.0	5293.9
12.5°	4965.4	4916.2	5193.6	5673.6	6063.1	6218.5	6248.0	6257.9	6076.9	5565.4	5061.8
15°	4945.7	4977.2	5193.6	5557.5	5797.5	5805.4	5854.6	5931.3	5954.9	5661.8	5170.0
17.5°	5229.0	5191.6	5413.9	5703.1	5589.0	5474.9	5486.7	5596.9	5791.6	5744.4	5510.3
20°	5648.0	5732.6	5907.7	5878.2	5571.3	5282.1	5284.1	5388.3	5772.0	6086.7	5984.4
22.5°	6344.4	6427.1	6556.9	6200.8	5571.3	5225.1	5158.2	5299.8	5897.9	6493.9	6519.5
25°	6979.9	7131.3	7166.8	6747.7	5850.7	5278.2	5234.9	5374.6	6023.8	6891.3	7133.3
27.5°	7558.2	7613.3	7768.7	7099.9	6006.1	5313.6	5309.7	5488.7	6183.1	7090.0	7682.2
30°	8014.6	8008.7	8097.3	7322.2	6253.9	5512.3	5321.5	5659.8	6391.6	7418.6	8189.7
32.5°	8325.5	8392.4	8579.3	7631.0	6358.2	5701.1	5551.6	5860.5	6645.4	7574.0	8547.8
35°	8872.4	8988.4	8752.4	7802.2	6688.7	5888.0	5712.9	6133.9	6771.3	7743.2	8986.5
37.5°	9387.8	9299.3	9059.3	7894.6	6903.1	6234.3	6071.0	6663.1	7162.8	8111.0	9277.6
40°	9718.3	9716.3	9289.4	7969.4	7054.6	6763.5	6753.6	7200.2	7642.8	8343.2	9604.2
42.5°	9861.9	9999.6	9383.9	7961.5	7373.3	7404.8	7603.5	8002.8	7983.2	8390.4	9596.3
44°	10058.6	10141.3	9547.1	7979.2	7585.8	7837.6	8305.8	8559.6	8280.2	8364.8	9586.5
45°	10050.8	10056.7	9315.0	8002.8	7766.8	8199.6	8618.6	9047.5	8541.9	8309.7	9716.3
47.5°	9820.6	9753.7	9118.3	7827.8	8331.4	9155.7	9543.2	9802.9	8864.5	8191.7	9555.0
50°	9366.2	9289.4	8640.2	7753.0	8449.4	9749.8	10284.9	10379.3	9157.6	8075.6	9395.7
52.5°	9397.6	9376.0	8776.0	7865.1	8567.4	9936.7	10794.4	10818.0	9490.1	8319.6	9397.6
55°	9960.3	9885.5	9165.5	8004.8	8480.9	9718.3	10469.8	10428.5	9378.0	8172.0	9570.8
57.5°	9114.3	9163.5	8626.5	7452.0	7422.5	7900.5	8231.0	8128.7	7825.8	7375.3	8903.8
60°	7353.6	7493.3	7544.5	6232.3	5600.8	5354.9	5256.5	5075.5	5126.7	6059.2	7821.9
62.5°	6307.1	6299.2	6619.9	5650.0	3669.0	3155.5	3108.3	3149.6	3739.8	5964.8	7660.5
65°	5000.8	5134.6	5232.9	4788.3	2903.7	2343.0	2341.0	2602.7	3236.2	4985.1	6185.1
67.5°	3175.2	3350.3	3472.2	3063.0	1941.7	1668.2	1623.0	1937.8	2242.7	3269.6	3724.0
70°	1790.2	1872.8	1927.9	1766.6	1235.4	865.6	814.4	889.2	1355.4	2116.8	2207.3
72.5°	690.5	727.9	802.6	808.5	466.2	279.4	226.2	271.5	570.5	838.1	798.7
75°	106.2	114.1	161.3	192.8	133.8	102.3	108.2	112.1	159.3	216.4	181.0
77.5°	51.1	51.1	49.2	57.1	66.9	72.8	78.7	86.6	94.4	104.3	100.3
80°	33.4	33.4	33.4	39.3	49.2	59.0	66.9	70.8	74.8	82.6	78.7
82.5°	21.6	21.6	21.6	29.5	39.3	49.2	53.1	63.0	70.8	82.6	76.7
85°	11.8	11.8	11.8	19.7	29.5	41.3	39.3	31.5	17.7	2.0	3.9
87.5°	3.9	3.9	3.9	3.9	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°	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0
2.5°	6185.1	6094.6	6086.7	5901.8	5736.6	5655.9	5591.0	5410.0	5449.3	5345.1	5343.1
5°	5886.1	5701.1	5402.1	5156.2	4910.3	4861.1	4646.7	4459.8	4465.7	4331.9	4355.5
7.5°	5349.0	5221.1	4857.2	4471.6	4145.0	3912.9	3710.3	3588.3	3432.9	3379.8	3352.2
10°	5008.7	4851.3	4442.1	3958.1	3592.2	3468.3	3273.5	3165.3	3006.0	2927.3	2872.2
12.5°	4859.1	4629.0	4117.5	3625.7	3381.7	3253.9	3088.6	2891.9	2703.0	2630.2	2529.9
15°	4874.9	4599.5	4023.1	3491.9	3198.8	2950.9	2803.4	2585.0	2392.2	2264.3	2191.5
17.5°	5112.9	4778.5	4066.3	3389.6	2968.6	2657.8	2368.6	2132.5	1979.1	1882.7	1859.1
20°	5675.6	5221.1	4139.1	3224.4	2738.4	2350.9	1994.8	1748.9	1630.9	1628.9	1630.9
22.5°	6143.8	5693.3	4286.7	3126.0	2508.3	1957.4	1603.3	1524.6	1501.0	1550.2	1556.1
25°	6775.3	6224.4	4540.5	3074.8	2295.8	1668.2	1449.9	1420.4	1418.4	1481.4	1483.3
27.5°	7422.5	6688.7	4691.9	2925.3	2079.4	1518.7	1357.4	1351.5	1383.0	1449.9	1444.0
30°	7863.2	7078.2	4965.4	2746.3	1823.7	1386.9	1320.0	1327.9	1371.2	1422.3	1430.2
32.5°	8376.6	7461.8	5036.2	2647.9	1666.3	1276.8	1229.5	1247.2	1302.3	1383.0	1426.3
35°	8964.8	7733.3	5144.4	2514.2	1607.3	1192.2	1168.6	1188.2	1255.1	1308.2	1355.4
37.5°	9399.6	8213.3	5164.1	2409.9	1542.3	1144.9	1107.6	1172.5	1211.8	1286.6	1310.2
40°	9722.2	8561.5	5215.2	2345.0	1491.2	1084.0	1084.0	1127.2	1180.4	1249.2	1296.4
42.5°	9928.8	8815.3	5252.6	2286.0	1392.8	1066.3	1056.4	1099.7	1170.5	1237.4	1259.1
44°	10054.7	8923.5	5215.2	2230.9	1365.3	1044.6	1044.6	1082.0	1137.1	1215.8	1241.3
45°	10086.2	9059.3	5132.6	2228.9	1331.8	1019.0	1015.1	1085.9	1123.3	1219.7	1235.4
47.5°	10208.1	9226.5	5142.4	2166.0	1251.2	958.1	1026.9	1058.4	1091.8	1176.4	1229.5
50°	10204.2	9330.7	5120.8	2073.5	1192.2	889.2	1003.3	1038.7	1072.2	1158.7	1180.4
52.5°	10231.8	9720.3	5319.5	1926.0	1085.9	800.7	924.6	1003.3	1044.6	1117.4	1162.7
55°	10218.0	9942.6	5516.2	1815.8	936.4	747.6	857.7	950.2	1009.2	1085.9	1107.6
57.5°	9332.7	8787.8	5105.1	1609.2	775.1	684.6	763.3	895.1	969.9	1048.6	1076.1
60°	7625.1	6773.3	4210.0	1184.3	637.4	629.5	710.2	877.4	908.9	977.7	1024.9
62.5°	7046.7	5941.1	3338.5	904.9	544.9	576.4	655.1	792.8	842.0	926.6	969.9
65°	5514.2	3946.3	2067.6	611.8	480.0	517.4	592.1	694.4	775.1	853.8	904.9
67.5°	3265.7	2156.1	1023.0	428.9	419.0	458.4	535.1	611.8	704.3	790.8	816.4
70°	1778.4	1060.4	436.7	326.6	356.1	391.5	466.2	519.4	607.9	674.8	718.1
72.5°	570.5	322.6	218.4	242.0	271.5	312.8	358.0	423.0	485.9	525.3	560.7
75°	137.7	135.7	155.4	169.2	196.7	228.2	265.6	299.0	348.2	385.6	417.1
77.5°	96.4	104.3	120.0	139.7	149.5	161.3	184.9	210.5	232.1	259.7	279.4
80°	74.8	80.7	92.5	102.3	112.1	122.0	133.8	143.6	157.4	175.1	184.9
82.5°	70.8	74.8	86.6	92.5	88.5	86.6	94.4	98.4	100.3	106.2	112.1
85°	5.9	0.0	3.9	13.8	33.4	49.2	53.1	53.1	51.1	55.1	55.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.9	5.9
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°	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0
2.5°	5319.5	5252.6	5278.2	5309.7	5264.4	5160.1	5187.7	5175.9	5282.1	5274.2	5380.5
5°	4459.8	4355.5	4367.3	4520.8	4471.6	4524.7	4418.5	4404.7	4424.4	4434.2	4451.9
7.5°	3413.2	3399.4	3517.5	3647.3	3708.3	3645.3	3541.1	3517.5	3495.8	3452.6	3550.9
10°	2785.6	2789.6	2781.7	2880.1	2948.9	2935.2	2872.2	2864.3	2823.0	2807.3	2862.4
12.5°	2486.6	2433.5	2407.9	2376.5	2429.6	2465.0	2437.4	2417.8	2419.7	2439.4	2447.3
15°	2197.4	2164.0	2108.9	2073.5	2099.1	2081.4	2071.5	2110.9	2101.0	2097.1	2144.3
17.5°	1872.8	1900.4	1896.4	1857.1	1890.5	1876.8	1874.8	1847.3	1809.9	1782.3	1798.1
20°	1658.4	1709.6	1748.9	1750.9	1768.6	1766.6	1737.1	1652.5	1625.0	1619.1	1623.0
22.5°	1581.7	1609.2	1656.4	1723.3	1723.3	1691.8	1656.4	1558.1	1532.5	1505.0	1493.2
25°	1520.7	1573.8	1634.8	1642.7	1674.1	1644.6	1587.6	1538.4	1485.3	1447.9	1447.9
27.5°	1489.2	1548.2	1593.5	1607.3	1650.5	1626.9	1567.9	1505.0	1442.0	1440.0	1406.6
30°	1475.5	1530.5	1560.0	1593.5	1613.2	1575.8	1558.1	1491.2	1428.2	1412.5	1357.4
32.5°	1434.1	1512.8	1567.9	1560.0	1575.8	1560.0	1534.5	1479.4	1408.6	1373.2	1367.3
35°	1386.9	1465.6	1524.6	1565.9	1575.8	1542.3	1526.6	1451.8	1355.4	1337.7	1276.8
37.5°	1361.3	1408.6	1481.4	1548.2	1562.0	1544.3	1491.2	1414.5	1318.1	1298.4	1245.3
40°	1329.9	1390.9	1447.9	1503.0	1544.3	1501.0	1440.0	1365.3	1322.0	1263.0	1247.2
42.5°	1306.3	1375.1	1422.3	1483.3	1530.5	1473.5	1402.7	1351.5	1290.5	1251.2	1205.9
44°	1298.4	1361.3	1392.8	1467.6	1506.9	1463.6	1404.6	1351.5	1280.7	1245.3	1205.9
45°	1270.9	1357.4	1390.9	1457.7	1491.2	1455.8	1381.0	1327.9	1276.8	1233.5	1192.2
47.5°	1243.3	1302.3	1359.4	1412.5	1436.1	1424.3	1361.3	1296.4	1235.4	1209.9	1170.5
50°	1235.4	1294.5	1347.6	1396.8	1424.3	1400.7	1343.6	1280.7	1209.9	1168.6	1135.1
52.5°	1196.1	1268.9	1327.9	1343.6	1379.1	1365.3	1322.0	1253.1	1186.3	1150.9	1123.3
55°	1139.0	1215.8	1296.4	1316.1	1367.3	1345.6	1280.7	1215.8	1158.7	1105.6	1070.2
57.5°	1117.4	1192.2	1270.9	1296.4	1327.9	1292.5	1276.8	1207.9	1117.4	1089.9	1034.8
60°	1062.3	1156.8	1221.7	1280.7	1282.7	1272.8	1245.3	1166.6	1091.8	1040.7	1001.3
62.5°	1019.0	1107.6	1158.7	1213.8	1247.2	1219.7	1192.2	1119.4	1038.7	981.7	936.4
65°	956.1	1036.7	1080.0	1113.5	1150.9	1146.9	1099.7	1046.6	962.0	916.7	873.5
67.5°	859.7	930.5	989.5	1021.0	1044.6	1038.7	1003.3	965.9	879.4	834.1	802.6
70°	743.6	816.4	853.8	871.5	895.1	906.9	879.4	861.7	784.9	725.9	696.4
72.5°	598.0	645.3	700.3	716.1	725.9	733.8	733.8	718.1	639.4	615.8	564.6
75°	440.7	478.0	519.4	519.4	537.1	539.0	543.0	533.1	474.1	442.6	430.8
77.5°	299.0	326.6	360.0	373.8	385.6	383.6	381.6	354.1	322.6	308.9	297.1
80°	194.8	222.3	238.0	255.7	267.5	265.6	269.5	249.8	236.1	212.5	216.4
82.5°	116.1	137.7	153.4	175.1	175.1	181.0	181.0	175.1	161.3	149.5	149.5
85°	55.1	72.8	82.6	96.4	104.3	106.2	94.4	80.7	66.9	61.0	66.9
87.5°	9.8	13.8	19.7	17.7	21.6	19.7	19.7	19.7	19.7	15.7	17.7
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: P528964

CATALOG NUMBER: GALN-SA4A-750-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0	6010.0
2.5°	5341.1	5439.5	5508.3	5622.4	5819.2	5976.6	6137.9	6257.9	6271.6	6307.1
5°	4516.8	4570.0	4745.0	4973.3	5134.6	5400.1	5571.3	5882.1	5998.2	6122.1
7.5°	3527.3	3613.9	3848.0	4001.4	4355.5	4688.0	5032.3	5415.9	5569.3	5587.0
10°	2974.5	3100.4	3259.8	3505.7	3698.5	4068.3	4497.2	4924.1	5095.2	5124.7
12.5°	2612.5	2773.8	2986.3	3163.4	3348.3	3670.9	4082.1	4609.3	4831.6	4965.4
15°	2264.3	2431.5	2665.6	2911.6	3074.8	3460.4	3944.4	4538.5	4827.7	4945.7
17.5°	1906.3	2061.7	2254.5	2520.1	2848.6	3281.4	3922.7	4774.6	5091.3	5229.0
20°	1599.4	1685.9	1910.2	2183.7	2594.8	3098.4	3930.6	5122.8	5587.0	5648.0
22.5°	1479.4	1499.1	1587.6	1839.4	2289.9	2911.6	4070.3	5616.5	6143.8	6344.4
25°	1386.9	1383.0	1406.6	1575.8	2067.6	2838.8	4208.0	6071.0	6761.5	6979.9
27.5°	1335.8	1296.4	1298.4	1457.7	1910.2	2720.7	4385.0	6592.3	7461.8	7558.2
30°	1310.2	1302.3	1278.7	1343.6	1739.1	2543.7	4414.5	7105.8	7875.0	8014.6
32.5°	1294.5	1217.7	1188.2	1211.8	1577.7	2350.9	4524.7	7444.1	8386.5	8325.5
35°	1215.8	1146.9	1127.2	1150.9	1463.6	2242.7	4451.9	7739.2	8770.1	8872.4
37.5°	1186.3	1125.3	1085.9	1066.3	1357.4	2152.2	4414.5	8193.7	9141.9	9387.8
40°	1158.7	1093.8	1046.6	1026.9	1274.8	2032.2	4402.7	8543.8	9570.8	9718.3
42.5°	1127.2	1085.9	1032.8	997.4	1174.5	1912.2	4267.0	8652.0	9702.6	9861.9
44°	1117.4	1054.5	999.4	987.6	1135.1	1851.2	4239.5	8750.4	9816.7	10058.6
45°	1107.6	1048.6	985.6	969.9	1121.3	1817.8	4202.1	8774.0	10005.5	10050.8
47.5°	1080.0	1042.7	981.7	938.4	1091.8	1745.0	4089.9	8640.2	9812.7	9820.6
50°	1058.4	1015.1	952.2	867.6	1052.5	1684.0	4141.1	8591.1	9348.5	9366.2
52.5°	1034.8	969.9	934.5	788.9	987.6	1632.8	4249.3	8813.4	9401.6	9397.6
55°	1007.2	936.4	849.9	722.0	879.4	1567.9	4510.9	9252.1	9893.4	9960.3
57.5°	964.0	903.0	779.0	663.0	755.4	1444.0	4426.4	8412.0	9102.5	9114.3
60°	906.9	849.9	706.2	617.7	619.7	1139.0	3958.1	6554.9	7182.5	7353.6
62.5°	851.8	820.4	645.3	552.8	527.2	906.9	3346.3	5447.4	6165.4	6307.1
65°	786.9	710.2	592.1	503.6	452.5	635.4	2370.6	4070.3	4810.0	5000.8
67.5°	704.3	621.7	521.3	442.6	387.6	424.9	1223.6	2313.5	3063.0	3175.2
70°	615.8	539.0	438.7	373.8	312.8	293.1	539.0	1103.6	1674.1	1790.2
72.5°	505.6	434.8	350.2	295.1	234.1	202.6	181.0	295.1	594.1	690.5
75°	365.9	316.7	263.6	210.5	165.3	129.8	106.2	88.5	98.4	106.2
77.5°	269.5	230.2	194.8	149.5	116.1	92.5	72.8	55.1	53.1	51.1
80°	210.5	186.9	155.4	120.0	90.5	68.9	51.1	37.4	33.4	33.4
82.5°	165.3	153.4	127.9	98.4	74.8	55.1	37.4	25.6	21.6	21.6
85°	63.0	63.0	92.5	80.7	57.1	39.3	25.6	13.8	11.8	11.8
87.5°	15.7	15.7	15.7	15.7	13.8	11.8	11.8	5.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)