

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: P647940

Luminaire Tested: **GALN-SA5A-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647940
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-SA5A-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 13354.8 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

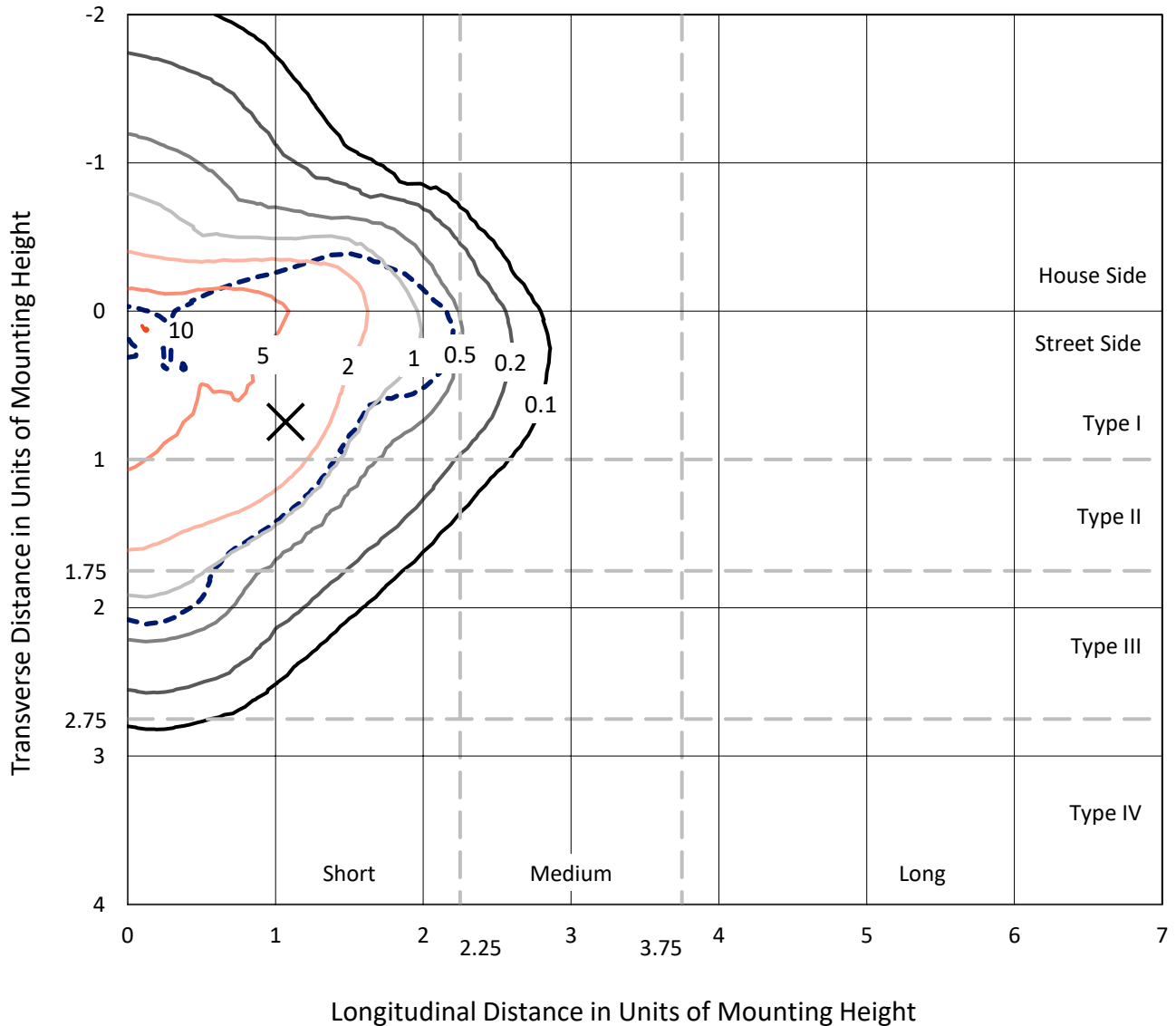
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

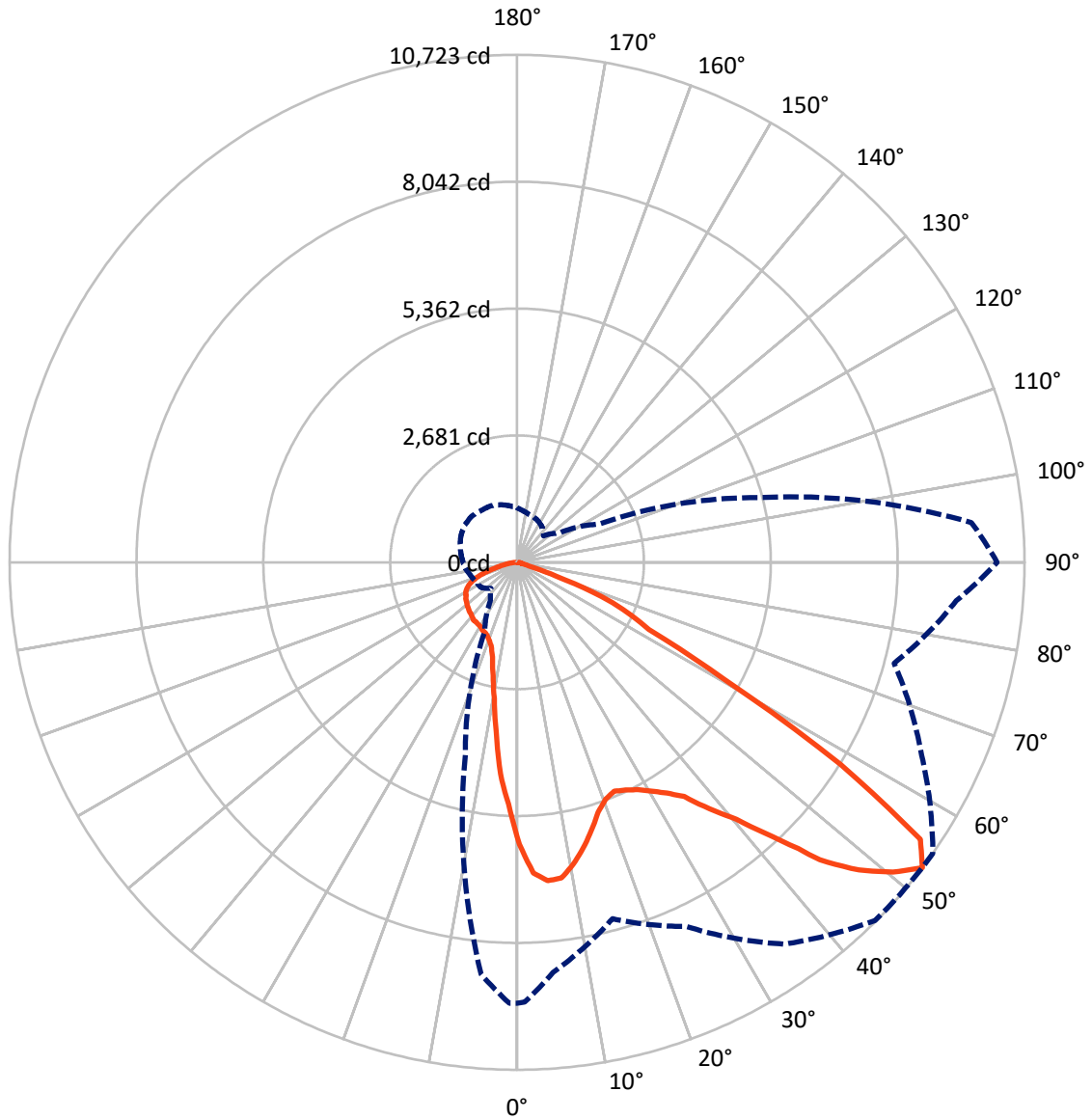
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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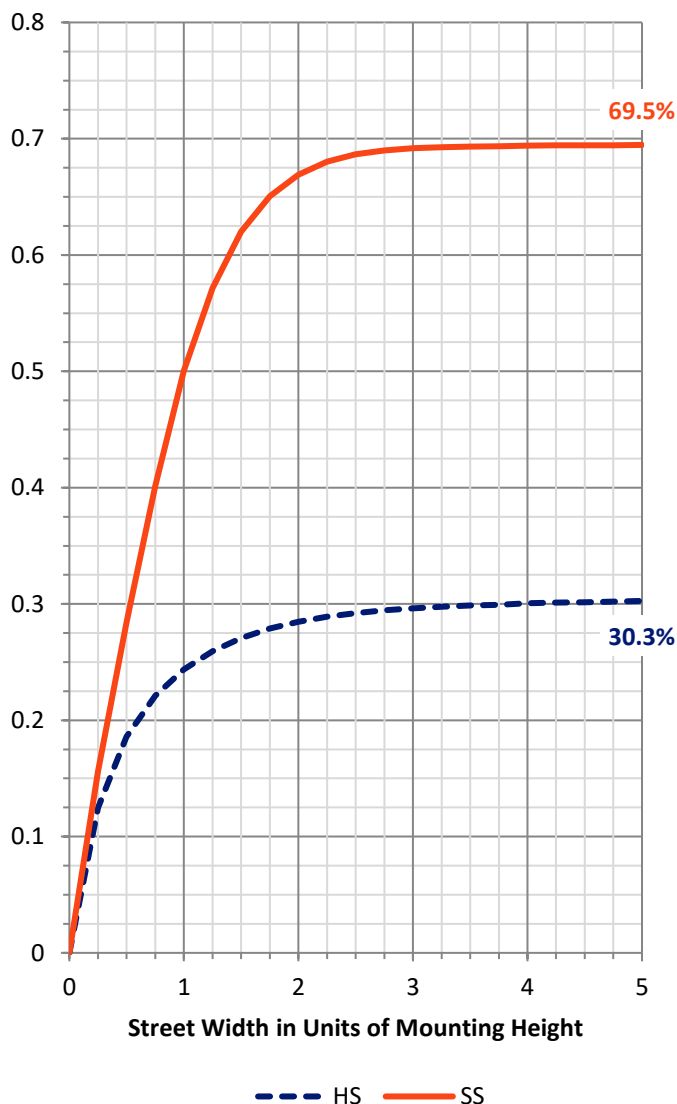
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4073.9	0.0	4073.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9280.9	0.0	9280.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	13354.8	0.0	13354.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.1	3.4
10°-20°	981.3	7.3
20°-30°	1488.0	11.1
30°-40°	2149.9	16.1
40°-50°	2872.9	21.5
50°-60°	3206.8	24.0
60°-70°	1759.0	13.2
70°-80°	380.3	2.8
80°-90°	61.5	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°	13354.8	100.0
0°-180°	13354.8	100.0

Coefficient of Utilization



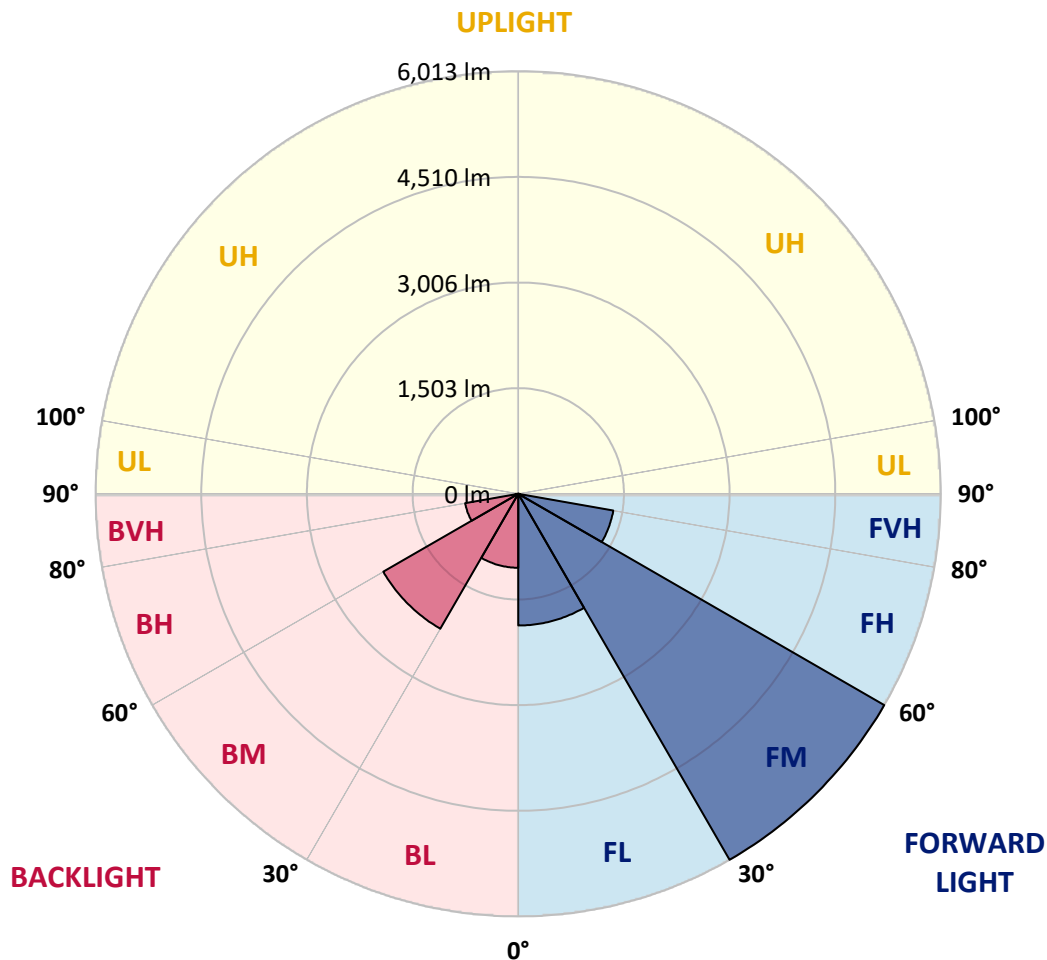
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.6	14.0			
FM (30°-60°)	6013.0	45.0			
FH (60°-80°)	1372.5	10.3			G1/1800
FVH (80°-90°)	22.8	0.2			G1/100
BL (0°-30°)	1051.8	7.9	B3/2500		
BM (30°-60°)	2216.6	16.6	B2/2500		
BH (60°-80°)	766.8	5.7	B2/1000		G2/1000
BVH (80°-90°)	38.7	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°	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3
2.5°	6251.8	6216.6	6247.9	6396.0	6481.8	6540.3	6577.4	6571.6	6431.2	6294.6	6294.6
5°	6068.5	6023.6	6088.0	6423.3	6760.7	6789.9	6838.7	6758.8	6552.1	6302.4	5990.4
7.5°	5538.1	5571.2	5678.5	6119.1	6557.9	6778.3	6836.8	6735.4	6399.9	5933.9	5475.7
10°	5079.8	5157.8	5405.4	5881.3	6284.9	6571.6	6635.9	6493.6	6228.4	5657.0	5247.5
12.5°	4921.9	4873.1	5148.1	5623.8	6009.9	6164.0	6193.2	6203.0	6023.6	5516.6	5017.4
15°	4902.4	4933.5	5148.1	5508.8	5746.7	5754.5	5803.3	5879.3	5902.7	5612.2	5124.7
17.5°	5183.1	5146.1	5366.4	5653.1	5540.0	5426.9	5438.6	5547.8	5740.9	5694.1	5462.0
20°	5598.5	5682.3	5855.9	5826.6	5522.4	5235.8	5237.7	5341.1	5721.4	6033.3	5931.9
22.5°	6288.8	6370.7	6499.4	6146.5	5522.4	5179.2	5112.9	5253.3	5846.1	6437.0	6462.3
25°	6918.7	7068.8	7103.9	6688.5	5799.4	5231.9	5189.0	5327.5	5970.9	6830.9	7070.7
27.5°	7492.0	7546.6	7700.6	7037.6	5953.4	5267.0	5263.1	5440.5	6128.9	7027.8	7614.8
30°	7944.4	7938.5	8026.3	7257.9	6199.1	5463.9	5274.8	5610.2	6335.6	7353.5	8117.9
32.5°	8252.4	8318.7	8504.0	7564.1	6302.4	5651.1	5502.9	5809.1	6587.1	7507.6	8472.8
35°	8794.6	8909.6	8675.6	7733.8	6630.1	5836.4	5662.8	6080.2	6712.0	7675.3	8907.6
37.5°	9305.5	9217.7	8979.8	7825.4	6842.6	6179.6	6017.7	6604.7	7100.0	8039.9	9196.3
40°	9633.1	9631.1	9208.0	7899.5	6992.7	6704.1	6694.4	7137.0	7575.8	8270.0	9519.9
42.5°	9775.4	9911.9	9301.6	7891.7	7308.7	7339.8	7536.8	7932.7	7913.2	8316.8	9512.2
44°	9970.4	10052.3	9463.4	7909.2	7519.2	7768.8	8232.9	8484.5	8207.6	8291.5	9502.4
45°	9962.7	9968.5	9233.3	7932.7	7698.7	8127.7	8543.0	8968.1	8467.0	8236.8	9631.1
47.5°	9734.5	9668.2	9038.3	7759.1	8258.3	9075.4	9459.5	9717.0	8786.7	8119.9	9471.2
50°	9284.0	9208.0	8564.5	7685.0	8375.3	9664.3	10194.7	10288.3	9077.3	8004.8	9313.2
52.5°	9315.2	9293.7	8699.1	7796.2	8492.3	9849.5	10699.7	10723.1	9406.9	8246.6	9315.2
55°	9872.9	9798.9	9085.1	7934.6	8406.5	9633.1	10378.0	10337.0	9295.7	8100.4	9486.8
57.5°	9034.4	9083.2	8550.8	7386.7	7357.4	7831.3	8158.9	8057.5	7757.2	7310.6	8825.7
60°	7289.2	7427.6	7478.3	6177.6	5551.7	5308.0	5210.5	5031.0	5081.7	6006.1	7753.3
62.5°	6251.8	6244.0	6561.8	5600.4	3636.8	3127.9	3081.0	3122.0	3707.0	5912.4	7593.4
65°	4956.9	5089.5	5187.1	4746.3	2878.2	2322.5	2320.5	2579.9	3207.8	4941.4	6130.8
67.5°	3147.3	3320.9	3441.8	3036.2	1924.7	1653.6	1608.8	1920.8	2223.0	3240.9	3691.4
70°	1774.5	1856.4	1911.0	1751.1	1224.6	858.0	807.3	881.4	1343.5	2098.2	2187.9
72.5°	684.4	721.5	795.6	801.5	462.1	276.9	224.3	269.1	565.5	830.7	791.7
75°	105.3	113.1	159.9	191.1	132.6	101.4	107.3	111.2	157.9	214.5	179.4
77.5°	50.7	50.7	48.8	56.5	66.3	72.1	78.0	85.8	93.6	103.4	99.4
80°	33.1	33.1	33.1	39.0	48.8	58.5	66.3	70.2	74.1	81.9	78.0
82.5°	21.5	21.5	21.5	29.3	39.0	48.8	52.6	62.4	70.2	81.9	76.0
85°	11.7	11.7	11.7	19.5	29.3	41.0	39.0	31.2	17.5	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°	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3
2.5°	6130.8	6041.2	6033.3	5850.0	5686.2	5606.3	5541.9	5362.5	5401.5	5298.2	5296.2
5°	5834.4	5651.1	5354.7	5111.0	4867.2	4818.5	4605.9	4420.7	4426.5	4293.9	4317.3
7.5°	5302.1	5175.3	4814.6	4432.4	4108.7	3878.6	3677.8	3556.9	3402.8	3350.1	3322.8
10°	4964.8	4808.7	4403.1	3923.5	3560.7	3437.8	3244.8	3137.6	2979.6	2901.6	2847.0
12.5°	4816.5	4588.4	4081.4	3593.9	3352.1	3225.3	3061.5	2866.5	2679.3	2607.2	2507.7
15°	4832.1	4559.1	3987.8	3461.3	3170.8	2925.1	2778.8	2562.3	2371.2	2244.5	2172.4
17.5°	5068.1	4736.6	4030.6	3359.9	2942.6	2634.5	2347.8	2113.8	1961.7	1866.2	1842.8
20°	5625.8	5175.3	4102.8	3196.0	2714.4	2330.3	1977.3	1733.6	1616.6	1614.6	1616.6
22.5°	6089.9	5643.3	4249.1	3098.6	2486.3	1940.3	1589.3	1511.3	1487.9	1536.6	1542.4
25°	6715.9	6169.9	4500.6	3047.9	2275.6	1653.6	1437.2	1407.9	1406.0	1468.4	1470.3
27.5°	7357.4	6630.1	4650.8	2899.7	2061.2	1505.4	1345.5	1339.6	1370.9	1437.2	1431.3
30°	7794.2	7016.1	4921.9	2722.3	1807.6	1374.8	1308.5	1316.2	1359.1	1409.9	1417.7
32.5°	8303.2	7396.4	4992.0	2624.7	1651.7	1265.6	1218.7	1236.3	1290.9	1370.9	1413.8
35°	8886.2	7665.5	5099.3	2492.1	1593.2	1181.7	1158.3	1177.8	1244.1	1296.7	1343.5
37.5°	9317.2	8141.3	5118.8	2388.8	1528.8	1134.9	1097.8	1162.2	1201.2	1275.3	1298.7
40°	9637.0	8486.5	5169.5	2324.4	1478.1	1074.4	1074.4	1117.3	1170.0	1238.2	1285.1
42.5°	9841.8	8738.0	5206.6	2265.9	1380.6	1056.9	1047.2	1090.1	1160.2	1226.6	1248.0
44°	9966.5	8845.2	5169.5	2211.3	1353.3	1035.4	1035.4	1072.5	1127.1	1205.1	1230.5
45°	9997.7	8979.8	5087.6	2209.4	1320.1	1010.1	1006.2	1076.4	1113.4	1209.0	1224.6
47.5°	10118.6	9145.6	5097.3	2147.0	1240.2	949.6	1017.9	1049.1	1082.3	1166.1	1218.7
50°	10114.7	9249.0	5075.9	2055.3	1181.7	881.4	994.5	1029.6	1062.8	1148.6	1170.0
52.5°	10142.0	9635.0	5272.9	1909.0	1076.4	793.6	916.5	994.5	1035.4	1107.6	1152.5
55°	10128.3	9855.4	5467.8	1799.9	928.2	741.0	850.2	941.9	1000.4	1076.4	1097.8
57.5°	9250.8	8710.7	5060.3	1595.1	768.3	678.6	756.6	887.3	961.4	1039.4	1066.7
60°	7558.2	6713.9	4173.0	1173.9	631.8	624.0	703.9	869.7	900.9	969.1	1015.9
62.5°	6985.0	5889.0	3309.2	897.0	540.2	571.4	649.3	785.8	834.6	918.5	961.4
65°	5465.9	3911.7	2049.5	606.4	475.8	512.9	586.9	688.3	768.3	846.3	897.0
67.5°	3237.0	2137.2	1014.0	425.1	415.4	454.4	530.4	606.4	698.1	783.9	809.2
70°	1762.8	1051.0	432.9	323.7	353.0	388.1	462.1	514.8	602.5	668.8	711.7
72.5°	565.5	319.8	216.4	239.8	269.1	310.1	354.9	419.2	481.6	520.6	555.8
75°	136.5	134.5	154.0	167.7	195.0	226.2	263.2	296.4	345.1	382.2	413.4
77.5°	95.5	103.4	118.9	138.4	148.2	159.9	183.3	208.7	230.1	257.4	276.9
80°	74.1	79.9	91.7	101.4	111.2	120.9	132.6	142.3	156.0	173.5	183.3
82.5°	70.2	74.1	85.8	91.7	87.8	85.8	93.6	97.5	99.4	105.3	111.2
85°	5.9	0.0	3.9	13.6	33.1	48.8	52.6	52.6	50.7	54.6	54.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.8	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°	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3
2.5°	5272.9	5206.6	5231.9	5263.1	5218.2	5114.9	5142.2	5130.5	5235.8	5228.0	5333.3
5°	4420.7	4317.3	4329.1	4481.1	4432.4	4485.0	4379.7	4366.1	4385.6	4395.4	4412.9
7.5°	3383.3	3369.6	3486.6	3615.3	3675.8	3613.4	3510.0	3486.6	3465.2	3422.3	3519.7
10°	2761.2	2765.1	2757.3	2854.8	2923.1	2909.4	2847.0	2839.2	2798.3	2782.7	2837.3
12.5°	2464.8	2412.2	2386.8	2355.7	2408.3	2443.4	2416.1	2396.6	2398.5	2418.0	2425.8
15°	2178.1	2145.0	2090.5	2055.3	2080.7	2063.1	2053.3	2092.3	2082.6	2078.7	2125.5
17.5°	1856.4	1883.7	1879.8	1840.8	1874.0	1860.3	1858.4	1831.0	1794.0	1766.7	1782.3
20°	1643.8	1694.6	1733.6	1735.5	1753.1	1751.1	1721.9	1638.0	1610.7	1604.8	1608.8
22.5°	1567.8	1595.1	1642.0	1708.2	1708.2	1677.0	1642.0	1544.4	1519.1	1491.8	1480.0
25°	1507.4	1560.0	1620.5	1628.2	1659.5	1630.2	1573.7	1524.9	1472.3	1435.2	1435.2
27.5°	1476.2	1534.7	1579.5	1593.2	1636.1	1612.7	1554.2	1491.8	1429.4	1427.4	1394.3
30°	1462.5	1517.1	1546.3	1579.5	1599.0	1561.9	1544.4	1478.1	1415.7	1400.1	1345.5
32.5°	1421.5	1499.5	1554.2	1546.3	1561.9	1546.3	1521.0	1466.4	1396.2	1361.1	1355.3
35°	1374.8	1452.8	1511.3	1552.2	1561.9	1528.8	1513.2	1439.1	1343.5	1326.0	1265.6
37.5°	1349.4	1396.2	1468.4	1534.7	1548.3	1530.8	1478.1	1402.0	1306.5	1287.0	1234.3
40°	1318.2	1378.6	1435.2	1489.8	1530.8	1487.9	1427.4	1353.3	1310.4	1251.9	1236.3
42.5°	1294.8	1363.0	1409.9	1470.3	1517.1	1460.5	1390.4	1339.6	1279.2	1240.2	1195.3
44°	1287.0	1349.4	1380.6	1454.7	1493.7	1450.8	1392.3	1339.6	1269.5	1234.3	1195.3
45°	1259.7	1345.5	1378.6	1444.9	1478.1	1443.0	1368.9	1316.2	1265.6	1222.7	1181.7
47.5°	1232.4	1290.9	1347.5	1400.1	1423.5	1411.8	1349.4	1285.1	1224.6	1199.2	1160.2
50°	1224.6	1283.1	1335.8	1384.5	1411.8	1388.4	1331.9	1269.5	1199.2	1158.3	1125.2
52.5°	1185.6	1257.7	1316.2	1331.9	1367.0	1353.3	1310.4	1242.2	1175.8	1140.8	1113.4
55°	1129.1	1205.1	1285.1	1304.6	1355.3	1333.8	1269.5	1205.1	1148.6	1095.9	1060.8
57.5°	1107.6	1181.7	1259.7	1285.1	1316.2	1281.1	1265.6	1197.3	1107.6	1080.3	1025.7
60°	1053.0	1146.6	1211.0	1269.5	1271.4	1261.6	1234.3	1156.3	1082.3	1031.5	992.5
62.5°	1010.1	1097.8	1148.6	1203.2	1236.3	1209.0	1181.7	1109.6	1029.6	973.0	928.2
65°	947.7	1027.7	1070.6	1103.7	1140.8	1136.8	1090.1	1037.4	953.5	908.7	865.8
67.5°	852.1	922.4	980.9	1012.0	1035.4	1029.6	994.5	957.5	871.6	826.8	795.6
70°	737.1	809.2	846.3	863.9	887.3	899.0	871.6	854.1	778.1	719.6	690.3
72.5°	592.8	639.6	694.2	709.8	719.6	727.3	727.3	711.7	633.8	610.3	559.7
75°	436.8	473.9	514.8	514.8	532.4	534.3	538.2	528.4	470.0	438.7	427.0
77.5°	296.4	323.7	356.9	370.5	382.2	380.2	378.3	351.0	319.8	306.2	294.5
80°	193.1	220.3	235.9	253.5	265.2	263.2	267.2	247.7	234.0	210.6	214.5
82.5°	115.0	136.5	152.1	173.5	173.5	179.4	179.4	173.5	159.9	148.2	148.2
85°	54.6	72.1	81.9	95.5	103.4	105.3	93.6	79.9	66.3	60.4	66.3
87.5°	9.8	13.6	19.5	17.5	21.5	19.5	19.5	19.5	19.5	15.6	17.5
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: P647940

CATALOG NUMBER: GALN-SA5A-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3	5957.3
2.5°	5294.3	5391.8	5460.0	5573.2	5768.1	5924.2	6084.1	6203.0	6216.6	6251.8
5°	4477.3	4529.9	4703.4	4929.6	5089.5	5352.8	5522.4	5830.5	5945.6	6068.5
7.5°	3496.4	3582.1	3814.2	3966.4	4317.3	4646.9	4988.1	5368.4	5520.5	5538.1
10°	2948.4	3073.2	3231.2	3475.0	3666.0	4032.6	4457.7	4880.9	5050.5	5079.8
12.5°	2589.6	2749.5	2960.1	3135.6	3318.9	3638.8	4046.3	4568.9	4789.2	4921.9
15°	2244.5	2410.2	2642.2	2886.1	3047.9	3430.1	3909.8	4498.6	4785.3	4902.4
17.5°	1889.5	2043.6	2234.7	2498.0	2823.7	3252.7	3888.3	4732.7	5046.7	5183.1
20°	1585.3	1671.2	1893.5	2164.5	2572.1	3071.2	3896.1	5077.8	5538.1	5598.5
22.5°	1466.4	1485.9	1573.7	1823.3	2269.8	2886.1	4034.6	5567.3	6089.9	6288.8
25°	1374.8	1370.9	1394.3	1561.9	2049.5	2813.9	4171.1	6017.7	6702.2	6918.7
27.5°	1324.1	1285.1	1287.0	1444.9	1893.5	2696.9	4346.6	6534.5	7396.4	7492.0
30°	1298.7	1290.9	1267.5	1331.9	1723.8	2521.3	4375.8	7043.5	7805.9	7944.4
32.5°	1283.1	1207.1	1177.8	1201.2	1563.9	2330.3	4485.0	7378.8	8312.9	8252.4
35°	1205.1	1136.8	1117.3	1140.8	1450.8	2223.0	4412.9	7671.4	8693.2	8794.6
37.5°	1175.8	1115.4	1076.4	1056.9	1345.5	2133.3	4375.8	8121.8	9061.7	9305.5
40°	1148.6	1084.2	1037.4	1017.9	1263.6	2014.3	4364.1	8468.9	9486.8	9633.1
42.5°	1117.3	1076.4	1023.8	988.7	1164.2	1895.4	4229.6	8576.2	9617.5	9775.4
44°	1107.6	1045.2	990.6	978.9	1125.2	1835.0	4202.3	8673.7	9730.6	9970.4
45°	1097.8	1039.4	976.9	961.4	1111.5	1801.8	4165.2	8697.1	9917.8	9962.7
47.5°	1070.6	1033.5	973.0	930.1	1082.3	1729.6	4054.1	8564.5	9726.7	9734.5
50°	1049.1	1006.2	943.8	860.0	1043.3	1669.2	4104.8	8515.8	9266.5	9284.0
52.5°	1025.7	961.4	926.3	782.0	978.9	1618.5	4212.1	8736.1	9319.1	9315.2
55°	998.4	928.2	842.4	715.7	871.6	1554.2	4471.4	9170.9	9806.6	9872.9
57.5°	955.5	895.0	772.2	657.2	748.8	1431.3	4387.5	8338.2	9022.7	9034.4
60°	899.0	842.4	700.1	612.3	614.3	1129.1	3923.5	6497.4	7119.5	7289.2
62.5°	844.4	813.1	639.6	547.9	522.6	899.0	3316.9	5399.6	6111.3	6251.8
65°	780.0	703.9	586.9	499.2	448.5	629.8	2349.8	4034.6	4767.8	4956.9
67.5°	698.1	616.2	516.8	438.7	384.1	421.2	1212.9	2293.3	3036.2	3147.3
70°	610.3	534.3	434.9	370.5	310.1	290.6	534.3	1093.9	1659.5	1774.5
72.5°	501.1	431.0	347.1	292.5	232.1	200.8	179.4	292.5	588.9	684.4
75°	362.7	314.0	261.3	208.7	163.8	128.7	105.3	87.8	97.5	105.3
77.5°	267.2	228.2	193.1	148.2	115.0	91.7	72.1	54.6	52.6	50.7
80°	208.7	185.3	154.0	118.9	89.7	68.3	50.7	37.0	33.1	33.1
82.5°	163.8	152.1	126.8	97.5	74.1	54.6	37.0	25.4	21.5	21.5
85°	62.4	62.4	91.7	79.9	56.5	39.0	25.4	13.6	11.7	11.7
87.5°	15.6	15.6	15.6	15.6	13.6	11.7	11.7	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)