

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: P528940

Luminaire Tested: **GALN-SA4A-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528940
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-SA4A-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 13473 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

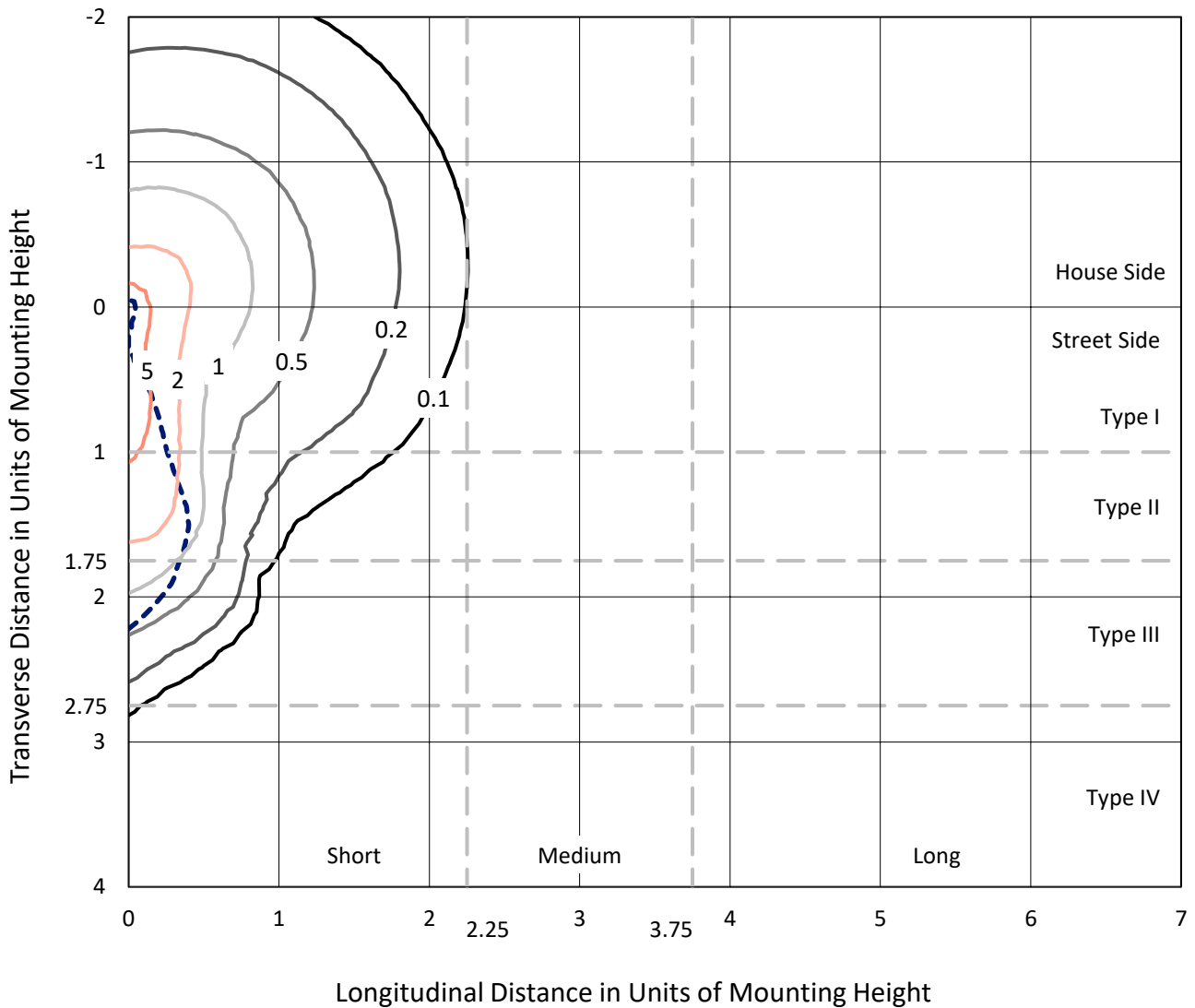
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

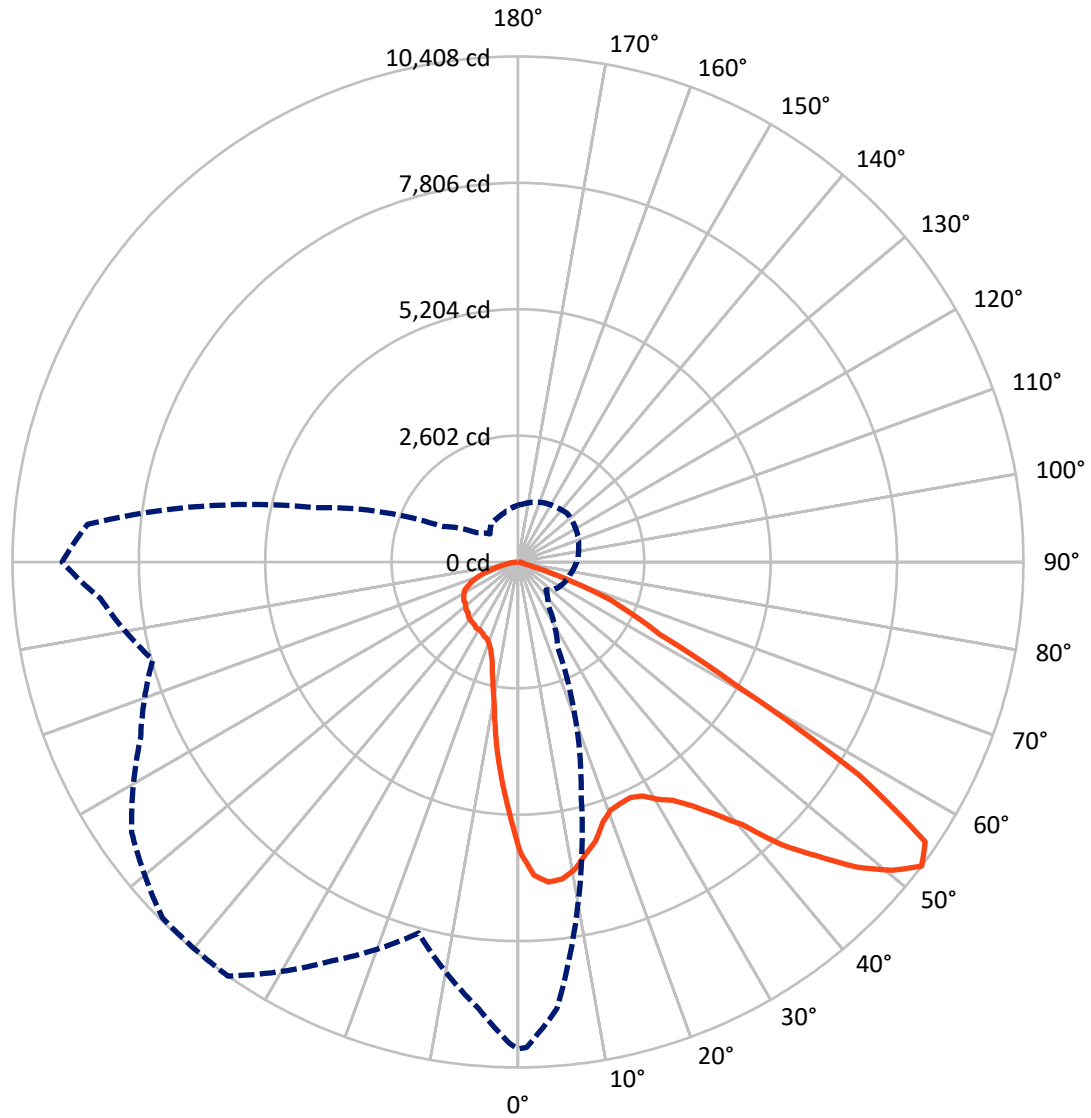
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	4061.5	0.0	4061.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9411.5	0.0	9411.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	13473.0	0.0	13473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.2	3.4
10°-20°	988.9	7.3
20°-30°	1494.2	11.1
30°-40°	2159.2	16.0
40°-50°	2873.4	21.3
50°-60°	3214.0	23.9
60°-70°	1811.4	13.4
70°-80°	403.8	3.0
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°	13473.0	100.0
0°-180°	13473.0	100.0

Coefficient of Utilization



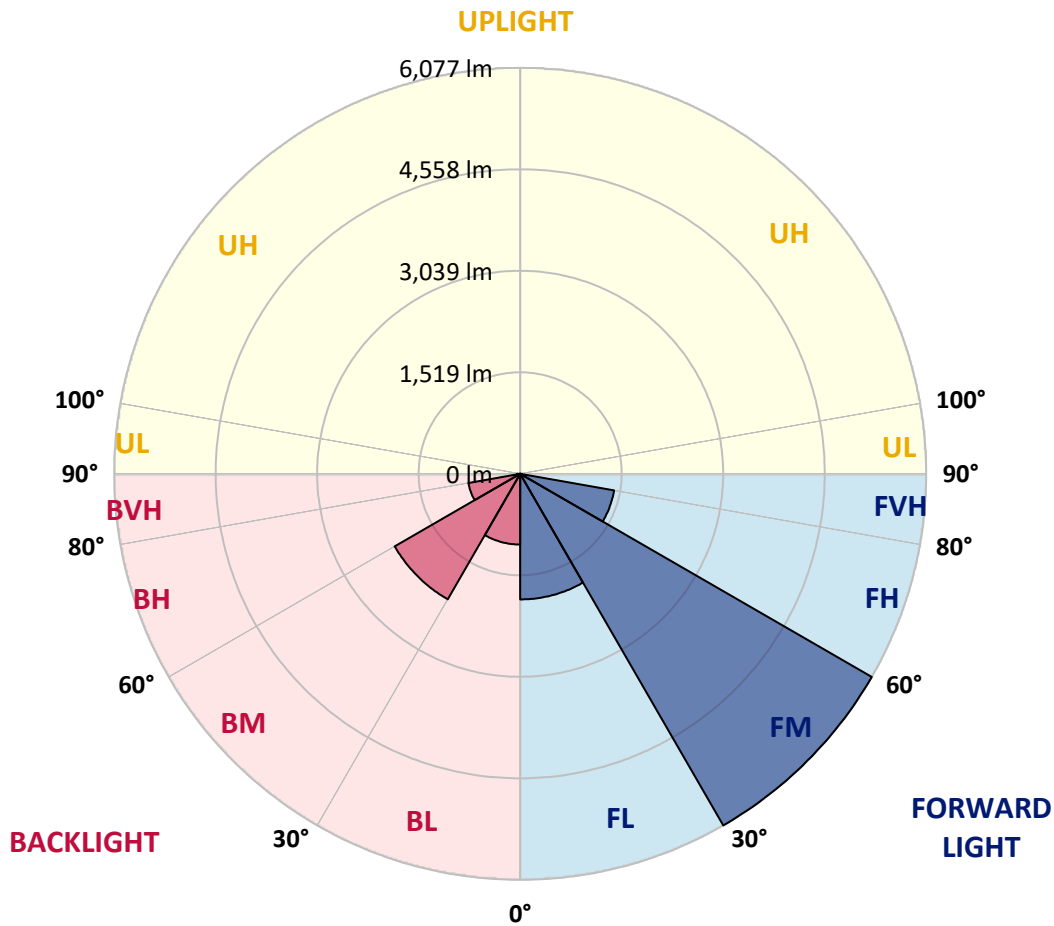
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.1	14.0			
FM (30°-60°)	6077.4	45.1			
FH (60°-80°)	1427.9	10.6			G1/1800
FVH (80°-90°)	26.0	0.2			G1/100
BL (0°-30°)	1059.2	7.9	B3/2500		
BM (30°-60°)	2169.3	16.1	B2/2500		
BH (60°-80°)	787.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	45.9	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°	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4
2.5°	6079.0	6176.6	6071.2	5883.7	5750.9	5629.9	5502.9	5477.5	5311.6	5282.3	5161.2
5°	5733.4	5711.9	5583.0	5336.9	5065.5	4819.5	4637.8	4462.1	4343.0	4204.3	4194.6
7.5°	5313.5	5188.5	5114.3	4741.3	4405.5	4018.8	3852.8	3585.3	3501.3	3376.3	3311.9
10°	4938.6	4846.8	4673.0	4300.0	3831.3	3575.5	3397.8	3253.3	3155.7	3026.8	2864.7
12.5°	4753.1	4716.0	4520.7	3942.7	3595.1	3321.7	3196.7	3056.1	2890.1	2683.1	2603.1
15°	4786.3	4661.3	4512.9	3874.3	3393.9	3130.3	2931.1	2755.4	2542.5	2345.3	2230.1
17.5°	5034.3	4938.6	4641.7	3917.3	3317.8	2937.0	2575.7	2316.0	2124.6	1946.9	1866.9
20°	5522.5	5383.8	5049.9	3971.9	3153.7	2667.5	2253.5	1933.2	1728.2	1634.5	1607.1
22.5°	6063.4	5981.4	5448.2	4095.0	3022.9	2417.5	1911.8	1591.5	1515.4	1490.0	1540.7
25°	6721.5	6508.6	6067.3	4296.1	2921.4	2204.7	1622.8	1445.1	1406.0	1431.4	1490.0
27.5°	7221.4	7164.7	6500.8	4485.5	2782.7	1948.9	1460.7	1343.5	1355.2	1380.6	1435.3
30°	7815.0	7528.0	6920.6	4616.4	2657.7	1773.1	1347.4	1316.2	1327.9	1370.8	1398.2
32.5°	8172.4	8065.0	7184.3	4813.6	2513.2	1620.8	1259.5	1230.2	1247.8	1312.3	1376.7
35°	8627.4	8414.5	7510.4	4864.4	2411.7	1560.3	1197.1	1175.6	1216.6	1261.5	1333.7
37.5°	9158.5	9012.1	7961.5	4829.2	2357.0	1497.8	1144.3	1134.6	1163.9	1226.3	1310.3
40°	9472.9	9428.0	8197.8	4850.7	2271.1	1443.1	1083.8	1095.5	1156.0	1204.9	1286.9
42.5°	9775.6	9482.7	8547.3	4842.9	2216.4	1368.9	1089.6	1076.0	1122.8	1179.5	1257.6
45°	9842.0	9551.0	8629.3	4788.2	2150.0	1296.6	1044.7	1050.6	1107.2	1177.5	1228.3
47.5°	9799.0	9584.2	8781.6	4772.6	2087.5	1245.9	978.3	1048.6	1081.8	1138.5	1210.7
50°	9769.7	9758.0	8910.5	4846.8	2003.5	1165.8	898.3	1023.3	1056.5	1113.1	1191.2
52.5°	10027.5	10002.1	9232.7	5042.1	1937.2	1079.9	816.3	958.8	1038.9	1093.6	1169.7
55°	10183.7	10072.4	9785.4	5282.3	1825.8	966.6	759.6	878.7	995.9	1044.7	1122.8
57.5°	9160.5	9084.3	8851.9	4930.8	1638.4	818.2	689.3	796.7	937.3	1013.5	1093.6
60°	7621.7	7502.6	6907.0	4190.7	1208.8	636.6	646.4	732.3	921.7	951.0	1044.7
62.5°	7186.2	6891.3	6080.9	3372.4	927.6	546.8	580.0	673.7	839.7	888.5	982.2
65°	5702.1	5483.4	4350.8	2435.1	621.0	474.5	529.2	607.3	724.5	820.2	906.1
67.5°	3569.7	3360.7	2321.9	1152.1	433.5	406.2	472.6	554.6	650.3	736.2	831.9
70°	1864.9	1636.4	1072.1	415.9	298.8	332.0	394.5	472.6	566.3	636.6	710.8
72.5°	695.2	564.4	349.5	179.7	207.0	253.9	320.3	376.9	443.3	529.2	570.2
75°	107.4	91.8	89.8	109.4	140.6	183.6	228.5	285.1	343.7	398.4	425.7
77.5°	50.8	48.8	54.7	72.3	93.7	130.8	166.0	220.7	267.5	302.7	318.3
80°	33.2	31.2	35.1	48.8	70.3	97.6	132.8	169.9	212.9	242.1	238.2
82.5°	19.5	21.5	21.5	33.2	48.8	70.3	95.7	128.9	158.2	183.6	167.9
85°	11.7	9.8	9.8	19.5	33.2	56.6	80.1	54.7	56.6	56.6	64.4
87.5°	3.9	3.9	3.9	2.0	3.9	3.9	5.9	9.8	11.7	13.7	17.6
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°	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4
2.5°	5157.3	5217.8	5196.3	5120.2	5178.8	5188.5	5149.5	5284.2	5309.6	5268.6	5280.3
5°	4180.9	4196.5	4231.7	4305.9	4358.6	4421.1	4421.1	4425.0	4372.3	4505.1	4466.0
7.5°	3257.2	3267.0	3308.0	3466.2	3511.1	3630.2	3681.0	3645.8	3540.4	3495.5	3532.6
10°	2812.0	2755.4	2741.7	2761.2	2862.8	2913.5	2956.5	2944.8	2927.2	2892.1	2853.0
12.5°	2515.2	2474.2	2441.0	2394.1	2400.0	2448.8	2482.0	2454.6	2462.5	2470.3	2482.0
15°	2193.0	2163.7	2146.1	2075.8	2068.0	2101.2	2112.9	2128.5	2157.8	2159.8	2146.1
17.5°	1851.2	1825.8	1864.9	1904.0	1876.6	1878.6	1900.1	1913.7	1905.9	1870.8	1853.2
20°	1616.9	1644.2	1683.3	1720.4	1749.7	1767.3	1775.1	1753.6	1728.2	1656.0	1654.0
22.5°	1548.6	1583.7	1616.9	1673.5	1700.9	1745.8	1704.8	1656.0	1620.8	1585.7	1544.6
25°	1497.8	1527.1	1593.5	1614.9	1667.7	1704.8	1675.5	1626.7	1566.1	1515.4	1484.1
27.5°	1460.7	1493.9	1536.8	1595.4	1636.4	1657.9	1628.6	1609.1	1546.6	1486.1	1441.1
30°	1437.2	1472.4	1550.5	1599.3	1634.5	1652.0	1601.3	1577.8	1532.9	1482.2	1443.1
32.5°	1421.6	1452.9	1519.3	1581.7	1605.2	1605.2	1613.0	1585.7	1523.2	1437.2	1404.0
35°	1370.8	1413.8	1468.5	1540.7	1583.7	1609.1	1570.0	1538.8	1497.8	1409.9	1349.4
37.5°	1341.6	1370.8	1441.1	1509.5	1546.6	1573.9	1558.3	1503.6	1449.0	1376.7	1327.9
40°	1310.3	1357.2	1419.7	1484.1	1525.1	1552.5	1540.7	1476.3	1409.9	1341.6	1308.4
42.5°	1288.8	1320.1	1384.5	1456.8	1505.6	1558.3	1523.2	1443.1	1396.2	1302.5	1265.4
45°	1271.3	1322.0	1390.4	1419.7	1470.4	1525.1	1462.6	1413.8	1359.1	1290.8	1259.5
47.5°	1249.8	1296.6	1341.6	1419.7	1443.1	1468.5	1456.8	1378.7	1331.8	1257.6	1236.1
50°	1242.0	1259.5	1341.6	1384.5	1417.7	1443.1	1411.9	1353.3	1308.4	1232.2	1185.3
52.5°	1210.7	1243.9	1296.6	1353.3	1394.3	1425.5	1374.8	1337.7	1277.1	1197.1	1167.8
55°	1171.7	1191.2	1284.9	1343.5	1365.0	1386.5	1366.9	1306.4	1243.9	1161.9	1132.6
57.5°	1120.9	1165.8	1242.0	1324.0	1351.3	1363.0	1331.8	1283.0	1204.9	1132.6	1085.7
60°	1068.2	1115.0	1199.0	1265.4	1292.7	1335.7	1288.8	1259.5	1169.7	1089.6	1038.9
62.5°	1015.4	1068.2	1130.7	1214.6	1238.1	1255.6	1243.9	1202.9	1130.7	1040.8	978.3
65°	953.0	992.0	1070.1	1113.1	1128.7	1169.7	1128.7	1113.1	1048.6	962.7	910.0
67.5°	859.2	892.4	960.8	1001.8	1013.5	1031.1	1029.1	1011.5	939.3	880.7	833.8
70°	751.8	781.1	824.1	872.9	878.7	900.2	880.7	876.8	829.9	749.9	724.5
72.5°	603.4	630.7	687.4	708.9	710.8	718.6	708.9	695.2	683.5	599.5	574.1
75°	462.8	478.4	505.8	525.3	525.3	535.1	529.2	515.5	484.3	431.6	406.2
77.5°	322.2	337.8	373.0	384.7	382.7	386.6	369.1	355.4	308.5	281.2	259.7
80°	234.3	244.1	261.7	269.5	271.4	277.3	255.8	244.1	216.8	185.5	175.7
82.5°	169.9	175.7	177.7	187.5	187.5	177.7	171.8	160.1	140.6	121.1	113.3
85°	70.3	72.3	74.2	85.9	87.9	105.4	97.6	91.8	80.1	68.3	62.5
87.5°	17.6	19.5	25.4	21.5	25.4	25.4	27.3	31.2	31.2	25.4	25.4
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°	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4
2.5°	5325.2	5340.8	5540.0	5565.4	5663.1	5762.6	5963.8	6108.3	6225.4	6301.6	6323.1
5°	4507.0	4606.6	4698.4	4846.8	4981.5	5172.9	5393.6	5667.0	6010.6	6186.4	6256.7
7.5°	3528.7	3645.8	3778.6	3923.1	4120.4	4464.0	4758.9	5075.3	5514.6	5696.2	5971.6
10°	2880.3	3011.2	3186.9	3298.2	3536.5	3864.5	4208.2	4573.4	4993.2	5254.9	5573.2
12.5°	2546.4	2653.8	2815.9	3050.2	3227.9	3440.8	3696.6	4157.5	4758.9	5006.9	5225.6
15°	2177.3	2296.5	2483.9	2743.7	2956.5	3210.4	3497.4	3999.3	4639.8	5022.5	5208.1
17.5°	1872.7	1958.6	2155.9	2380.4	2624.5	2901.8	3313.9	3991.5	4764.8	5254.9	5557.6
20°	1661.8	1673.5	1780.9	1972.3	2304.3	2665.5	3200.6	3952.4	5165.1	5655.2	6038.0
22.5°	1529.0	1517.3	1519.3	1681.3	1913.7	2433.2	3022.9	4085.2	5620.1	6291.8	6549.6
25°	1462.6	1431.4	1411.9	1447.0	1657.9	2157.8	2888.2	4261.0	6110.2	6817.1	7133.5
27.5°	1427.5	1372.8	1333.7	1339.6	1493.9	2019.2	2804.2	4337.1	6596.5	7549.4	7660.7
30°	1413.8	1345.5	1288.8	1269.3	1370.8	1825.8	2624.5	4468.0	7031.9	7951.7	8047.4
32.5°	1365.0	1281.0	1226.3	1208.8	1249.8	1656.0	2495.6	4561.7	7416.6	8389.1	8355.9
35°	1308.4	1238.1	1169.7	1136.5	1165.8	1546.6	2392.2	4516.8	7869.7	8728.9	8711.3
37.5°	1302.5	1210.7	1154.1	1099.4	1097.5	1411.9	2251.6	4559.7	8158.7	9338.2	9098.0
40°	1251.7	1193.1	1118.9	1074.0	1048.6	1343.5	2114.9	4458.2	8582.5	9584.2	9347.9
42.5°	1253.7	1165.8	1101.4	1048.6	1023.3	1243.9	2021.1	4430.8	8730.9	9984.5	9465.1
45°	1222.4	1136.5	1081.8	1019.3	1005.7	1167.8	1931.3	4303.9	8992.5	10004.1	9318.6
47.5°	1191.2	1115.0	1056.5	982.2	951.0	1140.4	1861.0	4198.5	8855.8	9820.5	9115.6
50°	1169.7	1081.8	1027.2	974.4	886.6	1093.6	1769.2	4173.1	8664.5	9572.5	8738.7
52.5°	1132.6	1054.5	997.9	956.9	816.3	1050.6	1734.1	4321.5	8898.8	9387.0	8629.3
55°	1097.5	1017.4	945.1	865.1	757.7	937.3	1636.4	4460.1	9240.5	9814.7	9125.3
57.5°	1060.4	984.2	906.1	810.4	701.0	820.2	1534.9	4485.5	8600.0	9070.6	8662.5
60°	1011.5	913.9	855.3	730.3	640.5	679.6	1216.6	3954.4	6670.7	7574.8	7588.5
62.5°	956.9	851.4	800.6	654.2	578.0	585.8	992.0	3323.6	5411.1	6270.4	6643.3
65°	884.6	783.1	722.5	605.4	533.1	507.7	726.4	2435.1	4110.6	5087.0	5510.7
67.5°	790.9	695.2	619.0	527.2	476.5	435.5	496.0	1370.8	2427.3	3415.4	3544.3
70°	691.3	609.3	529.2	453.0	396.4	367.1	363.2	607.3	1159.9	1837.6	2091.4
72.5°	544.8	486.2	421.8	365.2	328.1	285.1	259.7	251.9	392.5	747.9	1033.0
75°	390.6	341.7	304.6	267.5	240.2	216.8	197.2	179.7	164.0	187.5	257.8
77.5°	246.0	228.5	199.2	189.4	173.8	167.9	160.1	150.4	138.6	130.8	130.8
80°	166.0	154.3	144.5	142.6	136.7	134.7	136.7	126.9	115.2	105.4	109.4
82.5°	111.3	109.4	107.4	105.4	107.4	109.4	113.3	111.3	101.5	95.7	97.6
85°	66.4	70.3	74.2	78.1	85.9	76.2	62.5	52.7	46.9	43.0	41.0
87.5°	25.4	35.1	31.2	29.3	31.2	29.3	27.3	25.4	21.5	19.5	19.5
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: P528940

CATALOG NUMBER: GALN-SA4A-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4	5979.4
2.5°	6465.6	6504.7	6537.9	6530.1	6461.7	6370.0	6332.9	6143.4	6104.4	6079.0
5°	6553.5	6780.0	6828.9	6799.6	6621.9	6397.3	6178.6	5901.3	5739.2	5733.4
7.5°	6391.4	6670.7	6758.6	6825.0	6588.7	6198.1	5823.2	5407.2	5305.7	5313.5
10°	5979.4	6424.6	6641.4	6709.7	6438.3	6100.5	5581.0	5159.2	4942.5	4938.6
12.5°	5750.9	6100.5	6161.0	6256.7	6176.6	5834.9	5440.4	4967.9	4757.0	4753.1
15°	5547.8	5778.3	5795.8	5930.6	5973.5	5743.1	5477.5	4973.7	4803.8	4786.3
17.5°	5725.5	5565.4	5499.0	5516.6	5643.5	5727.5	5692.3	5305.7	5131.9	5034.3
20°	5844.7	5487.3	5286.2	5305.7	5456.1	5762.6	6012.6	5786.1	5510.7	5522.5
22.5°	6163.0	5499.0	5184.6	5163.1	5401.4	5946.2	6373.9	6393.4	6127.8	6063.4
25°	6639.4	5633.8	5153.4	5147.5	5376.0	6143.4	6795.7	7112.0	6840.6	6721.5
27.5°	7022.2	5844.7	5251.0	5270.5	5456.1	6303.6	7155.0	7574.8	7367.8	7221.4
30°	7358.1	6063.4	5387.7	5297.9	5670.9	6387.5	7309.2	8102.1	7936.1	7815.0
32.5°	7496.7	6373.9	5604.5	5456.1	5848.6	6489.1	7629.5	8613.7	8471.1	8172.4
35°	7731.0	6547.7	5721.6	5709.9	6159.1	6733.2	7779.9	8951.5	8892.9	8627.4
37.5°	7918.5	6723.4	6137.6	6008.7	6584.8	7143.3	8022.0	9418.2	9283.5	9158.5
40°	8063.0	7037.8	6526.2	6696.1	7108.1	7516.2	8244.6	9447.5	9836.1	9472.9
42.5°	7930.2	7319.0	7164.7	7570.9	7961.5	7941.9	8270.0	9674.1	9965.0	9775.6
45°	7897.0	7795.5	8174.3	8543.4	8633.2	8295.4	8088.4	9424.1	9926.0	9842.0
47.5°	7817.0	8264.1	8924.2	9525.6	9388.9	8531.7	7871.6	9379.2	9949.4	9799.0
50°	7789.6	8365.7	9478.8	10064.6	9982.6	8736.7	7770.1	9090.2	9783.4	9769.7
52.5°	7787.7	8574.6	9709.2	10357.5	10408.3	9060.9	7908.7	9236.6	9912.3	10027.5
55°	7875.5	8508.2	9679.9	10195.4	10175.9	8916.4	7924.4	9334.3	10070.5	10183.7
57.5°	7428.4	7621.7	7988.8	8396.9	8291.5	7385.4	7076.9	8629.3	9242.5	9160.5
60°	6414.9	5809.5	5395.5	5376.0	5171.0	4887.8	5791.9	7701.7	7701.7	7621.7
62.5°	5618.1	3813.8	3276.8	3124.4	3270.9	3597.0	5586.9	7490.8	7278.0	7186.2
65°	4913.2	2911.6	2368.7	2325.8	2579.6	3071.7	5051.8	6381.7	6006.7	5702.1
67.5°	3161.5	2132.4	1761.4	1685.2	1991.8	2255.5	3362.7	3925.1	3688.8	3569.7
70°	2038.7	1388.4	980.3	919.8	1038.9	1390.4	2148.1	2288.7	1945.0	1864.9
72.5°	964.7	599.5	343.7	283.2	318.3	531.2	849.5	913.9	759.6	695.2
75°	306.6	220.7	140.6	121.1	115.2	136.7	195.3	150.4	109.4	107.4
77.5°	136.7	130.8	111.3	93.7	82.0	68.3	56.6	46.9	48.8	50.8
80°	113.3	103.5	91.8	82.0	68.3	52.7	41.0	31.2	31.2	33.2
82.5°	99.6	89.8	80.1	68.3	58.6	43.0	31.2	21.5	19.5	19.5
85°	43.0	50.8	54.7	58.6	46.9	35.1	21.5	13.7	11.7	11.7
87.5°	17.6	15.6	13.7	11.7	9.8	9.8	7.8	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)