

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: P651849

Luminaire Tested: **GALN-SA4A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651849
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-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 11330.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

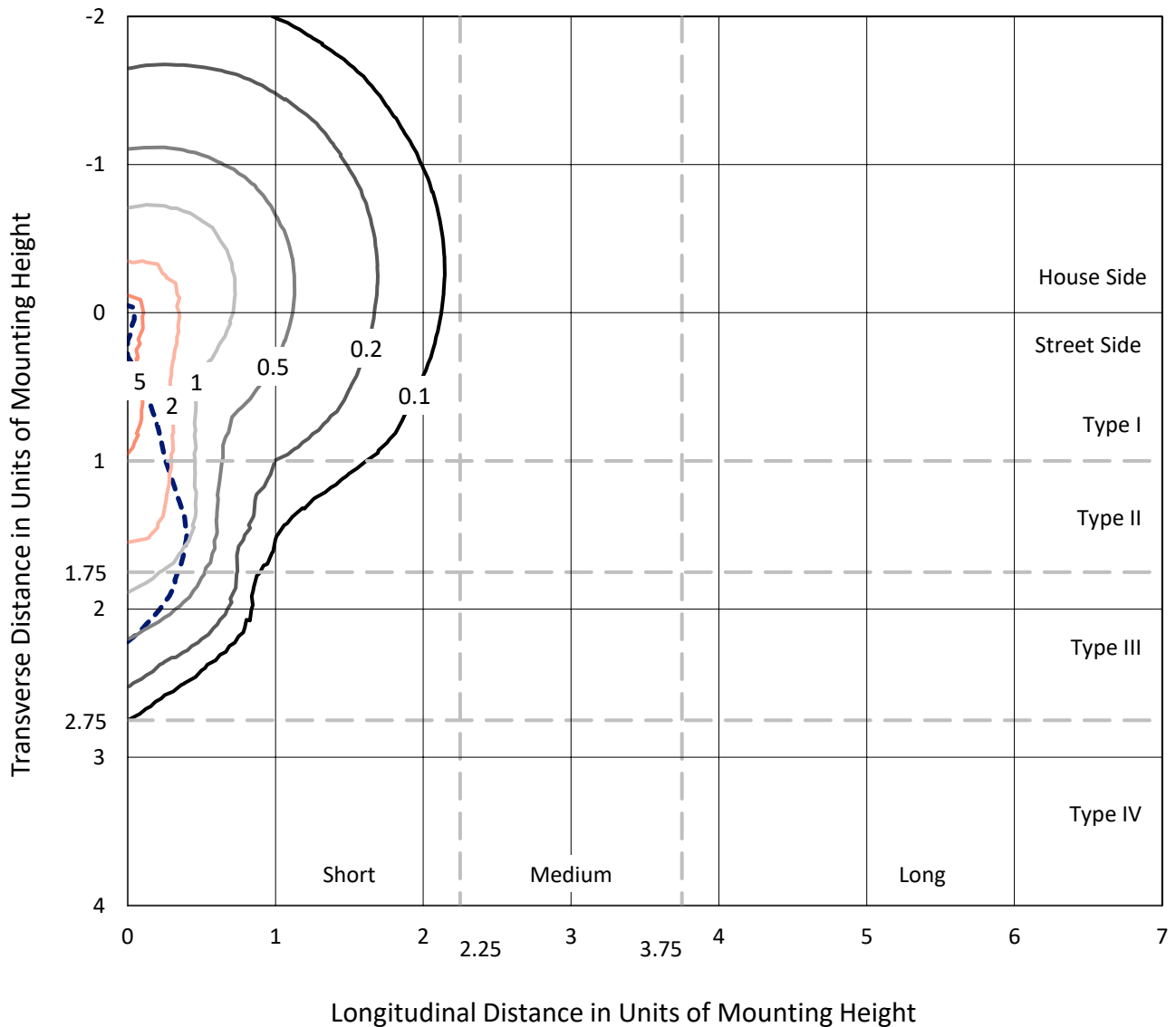
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651849
 CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

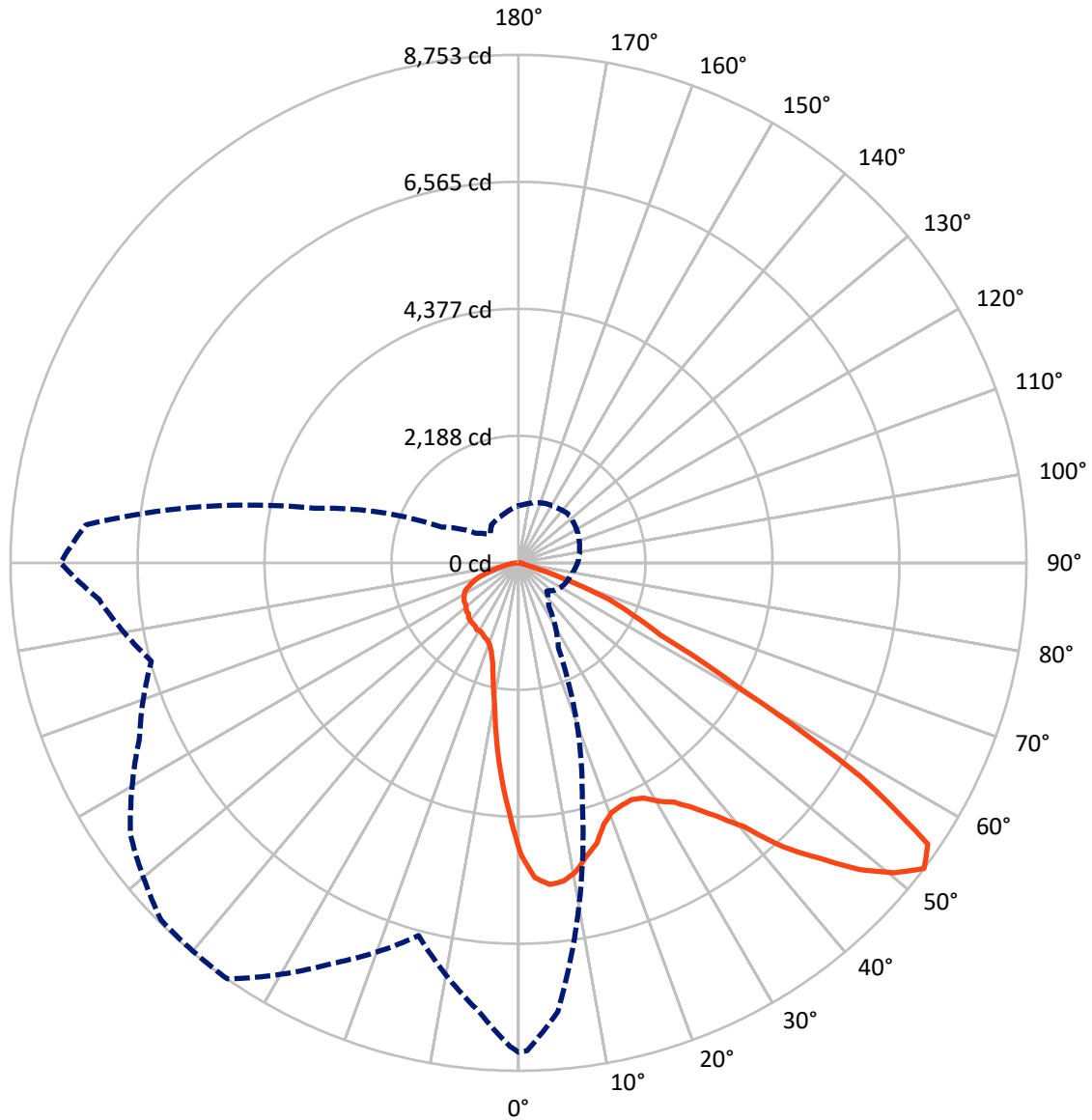
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

REPORT NUMBER: P651849
CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P651849
 CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

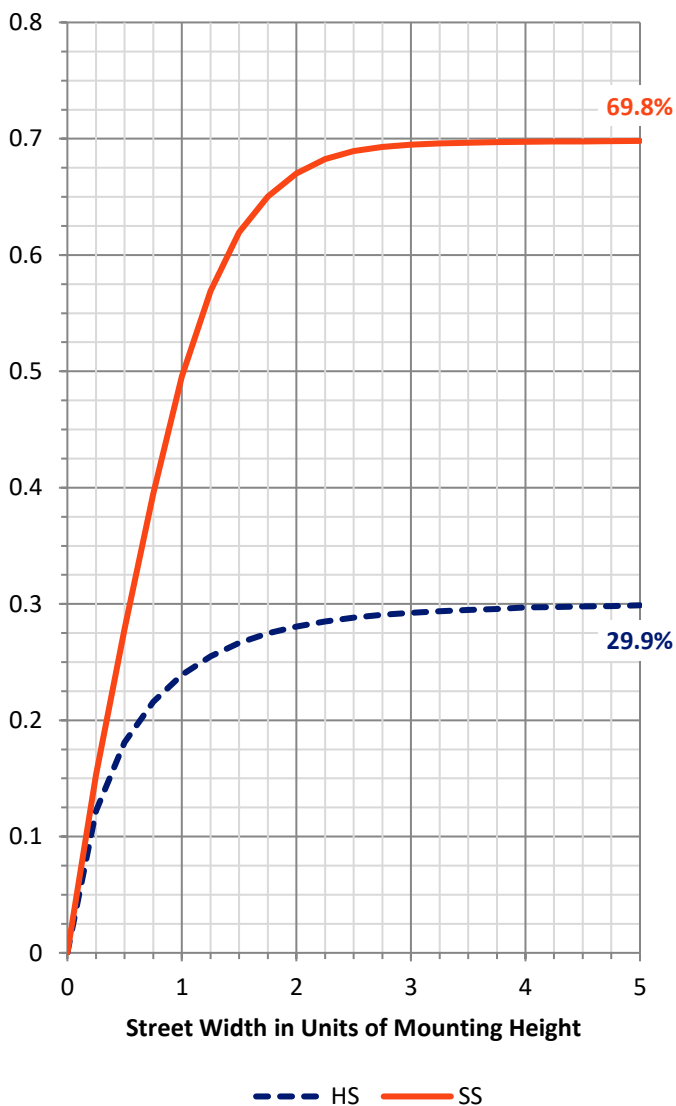
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3415.7	0.0	3415.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7915.0	0.0	7915.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	11330.8	0.0	11330.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.6	3.4
10°-20°	831.7	7.3
20°-30°	1256.6	11.1
30°-40°	1815.8	16.0
40°-50°	2416.6	21.3
50°-60°	2703.0	23.9
60°-70°	1523.4	13.4
70°-80°	339.6	3.0
80°-90°	60.5	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°	11330.8	100.0
0°-180°	11330.8	100.0

Coefficient of Utilization

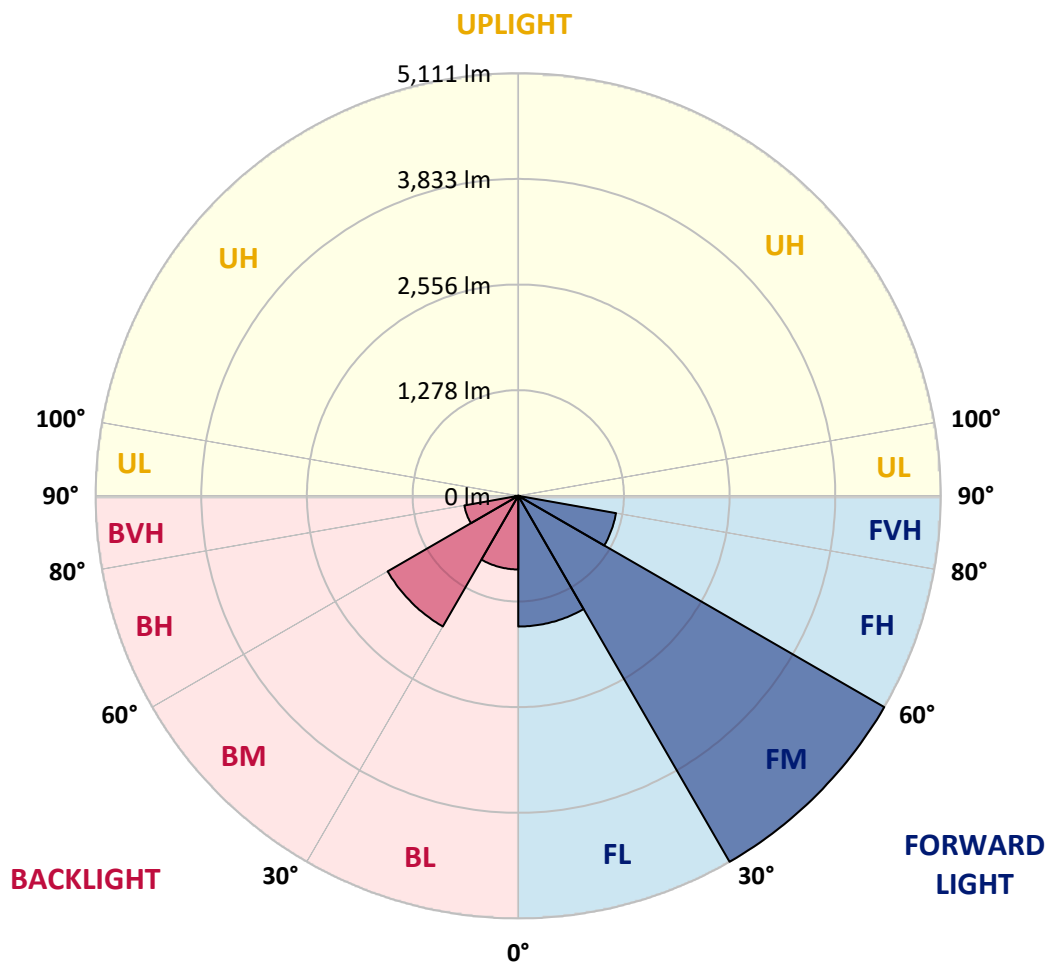


REPORT NUMBER: P651849
 CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.2	14.0			
FM (30°-60°)	5111.1	45.1			
FH (60°-80°)	1200.9	10.6			G1/1800
FVH (80°-90°)	21.9	0.2			G1/100
BL (0°-30°)	890.7	7.9	B2/1000		
BM (30°-60°)	1824.4	16.1	B2/2500		
BH (60°-80°)	662.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	38.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





REPORT NUMBER: P651849

CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7
2.5°	5112.4	5194.5	5105.9	4948.2	4836.5	4734.7	4627.9	4606.6	4467.1	4442.4	4340.6
5°	4821.8	4803.7	4695.3	4488.3	4260.1	4053.2	3900.4	3752.6	3652.5	3535.8	3527.7
7.5°	4468.7	4363.5	4301.1	3987.4	3705.0	3379.8	3240.2	3015.2	2944.6	2839.5	2785.3
10°	4153.4	4076.2	3930.0	3616.3	3222.1	3007.0	2857.5	2736.0	2653.9	2545.5	2409.2
12.5°	3997.4	3966.2	3801.9	3315.8	3023.5	2793.5	2688.4	2570.2	2430.6	2256.5	2189.2
15°	4025.3	3920.2	3795.3	3258.3	2854.3	2632.6	2465.1	2317.3	2138.2	1972.4	1875.5
17.5°	4233.8	4153.4	3903.7	3294.4	2790.3	2470.0	2166.2	1947.8	1786.8	1637.3	1570.1
20°	4644.4	4527.8	4247.0	3340.4	2652.3	2243.4	1895.2	1625.8	1453.4	1374.6	1351.6
22.5°	5099.3	5030.4	4581.9	3443.9	2542.3	2033.1	1607.8	1338.5	1274.5	1253.1	1295.7
25°	5652.8	5473.7	5102.6	3613.0	2456.9	1854.2	1364.8	1215.3	1182.4	1203.8	1253.1
27.5°	6073.2	6025.5	5467.2	3772.3	2340.3	1639.0	1228.4	1129.9	1139.7	1161.1	1207.1
30°	6572.4	6331.0	5820.2	3882.4	2235.1	1491.2	1133.2	1106.9	1116.8	1152.8	1175.9
32.5°	6873.0	6782.7	6042.0	4048.2	2113.6	1363.1	1059.2	1034.6	1049.4	1103.6	1157.8
35°	7255.6	7076.6	6316.2	4091.0	2028.2	1312.2	1006.8	988.7	1023.2	1060.9	1121.6
37.5°	7702.3	7579.2	6695.6	4061.4	1982.2	1259.6	962.4	954.2	978.8	1031.3	1102.0
40°	7966.7	7928.9	6894.3	4079.4	1910.0	1213.6	911.5	921.3	972.2	1013.3	1082.3
42.5°	8221.3	7975.0	7188.3	4072.9	1864.0	1151.2	916.4	904.9	944.3	992.0	1057.6
45°	8277.1	8032.4	7257.2	4026.9	1808.2	1090.4	878.6	883.6	931.2	990.3	1033.0
47.5°	8241.0	8060.3	7385.3	4013.8	1755.6	1047.8	822.8	881.9	909.8	957.5	1018.2
50°	8216.3	8206.5	7493.7	4076.2	1684.9	980.4	755.5	860.6	888.5	936.1	1001.8
52.5°	8433.1	8411.8	7764.7	4240.4	1629.2	908.2	686.5	806.4	873.7	919.7	983.7
55°	8564.5	8470.9	8229.5	4442.4	1535.5	812.9	638.8	739.0	837.6	878.6	944.3
57.5°	7704.0	7639.9	7444.4	4146.8	1377.9	688.1	579.7	670.0	788.3	852.4	919.7
60°	6409.8	6309.7	5808.8	3524.4	1016.6	535.4	543.6	615.9	775.1	799.8	878.6
62.5°	6043.6	5795.6	5114.0	2836.2	780.1	459.9	487.8	566.6	706.2	747.2	826.0
65°	4795.5	4611.5	3659.0	2047.9	522.3	399.1	445.1	510.7	609.3	689.8	762.0
67.5°	3002.1	2826.3	1952.7	968.9	364.6	341.6	397.5	466.4	546.9	619.1	699.6
70°	1568.4	1376.2	901.6	349.8	251.3	279.2	331.8	397.5	476.3	535.4	597.8
72.5°	584.7	474.7	293.9	151.1	174.1	213.5	269.4	317.0	372.8	445.1	479.5
75°	90.3	77.2	75.5	92.0	118.2	154.4	192.2	239.8	289.1	335.1	358.0
77.5°	42.7	41.0	46.0	60.8	78.8	110.0	139.6	185.6	225.0	254.6	267.7
80°	27.9	26.2	29.5	41.0	59.1	82.1	111.7	142.9	179.0	203.6	200.3
82.5°	16.4	18.1	18.1	27.9	41.0	59.1	80.5	108.4	133.0	154.4	141.2
85°	9.8	8.2	8.2	16.4	27.9	47.6	67.4	46.0	47.6	47.6	54.2
87.5°	3.3	3.3	3.3	1.7	3.3	3.3	5.0	8.2	9.8	11.5	14.8
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: P651849

CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7
2.5°	4337.3	4388.2	4370.1	4306.1	4355.4	4363.5	4330.7	4444.0	4465.4	4430.9	4440.7
5°	3516.1	3529.3	3558.9	3621.3	3665.6	3718.1	3718.1	3721.4	3677.1	3788.8	3755.9
7.5°	2739.3	2747.5	2782.0	2915.1	2952.8	3053.0	3095.7	3066.1	2977.5	2939.7	2970.9
10°	2364.9	2317.3	2305.8	2322.2	2407.6	2450.3	2486.4	2476.6	2461.8	2432.3	2399.4
12.5°	2115.3	2080.8	2052.9	2013.4	2018.4	2059.4	2087.4	2064.3	2071.0	2077.5	2087.4
15°	1844.3	1819.7	1804.9	1745.7	1739.2	1767.1	1776.9	1790.1	1814.7	1816.4	1804.9
17.5°	1556.9	1535.5	1568.4	1601.3	1578.2	1579.9	1598.0	1609.4	1602.9	1573.3	1558.5
20°	1359.8	1382.8	1415.7	1446.9	1471.5	1486.3	1492.9	1474.8	1453.4	1392.7	1391.0
22.5°	1302.4	1331.9	1359.8	1407.4	1430.5	1468.2	1433.7	1392.7	1363.1	1333.6	1299.0
25°	1259.6	1284.3	1340.1	1358.1	1402.5	1433.7	1409.1	1368.1	1317.1	1274.5	1248.1
27.5°	1228.4	1256.4	1292.4	1341.7	1376.2	1394.3	1369.7	1353.3	1300.7	1249.8	1212.0
30°	1208.7	1238.3	1304.0	1345.0	1374.6	1389.3	1346.7	1326.9	1289.2	1246.5	1213.6
32.5°	1195.6	1221.9	1277.7	1330.2	1350.0	1350.0	1356.5	1333.6	1281.0	1208.7	1180.8
35°	1152.8	1189.0	1235.0	1295.7	1331.9	1353.3	1320.4	1294.1	1259.6	1185.7	1134.8
37.5°	1128.3	1152.8	1212.0	1269.5	1300.7	1323.6	1310.5	1264.5	1218.6	1157.8	1116.8
40°	1102.0	1141.4	1194.0	1248.1	1282.6	1305.7	1295.7	1241.6	1185.7	1128.3	1100.4
42.5°	1083.9	1110.2	1164.4	1225.2	1266.2	1310.5	1281.0	1213.6	1174.2	1095.4	1064.2
45°	1069.2	1111.8	1169.3	1194.0	1236.6	1282.6	1230.0	1189.0	1143.0	1085.6	1059.2
47.5°	1051.1	1090.4	1128.3	1194.0	1213.6	1235.0	1225.2	1159.5	1120.0	1057.6	1039.6
50°	1044.5	1059.2	1128.3	1164.4	1192.3	1213.6	1187.4	1138.1	1100.4	1036.3	996.8
52.5°	1018.2	1046.1	1090.4	1138.1	1172.6	1198.8	1156.2	1125.0	1074.0	1006.8	982.1
55°	985.4	1001.8	1080.6	1129.9	1148.0	1166.0	1149.6	1098.7	1046.1	977.2	952.5
57.5°	942.7	980.4	1044.5	1113.5	1136.4	1146.3	1120.0	1079.0	1013.3	952.5	913.1
60°	898.4	937.7	1008.4	1064.2	1087.2	1123.3	1083.9	1059.2	983.7	916.4	873.7
62.5°	854.0	898.4	950.9	1021.5	1041.2	1056.0	1046.1	1011.6	950.9	875.3	822.8
65°	801.5	834.3	900.0	936.1	949.2	983.7	949.2	936.1	881.9	809.6	765.3
67.5°	722.6	750.5	808.0	842.5	852.4	867.2	865.5	850.7	790.0	740.7	701.2
70°	632.3	656.9	693.1	734.1	739.0	757.1	740.7	737.4	697.9	630.7	609.3
72.5°	507.5	530.4	578.1	596.2	597.8	604.3	596.2	584.7	574.8	504.2	482.8
75°	389.2	402.3	425.4	441.8	441.8	450.0	445.1	433.5	407.3	363.0	341.6
77.5°	271.0	284.1	313.7	323.5	321.9	325.1	310.4	298.9	259.4	236.5	218.4
80°	197.0	205.3	220.1	226.6	228.2	233.2	215.1	205.3	182.3	156.0	147.8
82.5°	142.9	147.8	149.4	157.7	157.7	149.4	144.5	134.6	118.2	101.8	95.3
85°	59.1	60.8	62.4	72.2	73.9	88.6	82.1	77.2	67.4	57.4	52.6
87.5°	14.8	16.4	21.4	18.1	21.4	21.4	23.0	26.2	26.2	21.4	21.4
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: P651849

CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7
2.5°	4478.5	4491.6	4659.1	4680.5	4762.7	4846.3	5015.6	5137.1	5235.6	5299.6	5317.7
5°	3790.4	3874.2	3951.4	4076.2	4189.4	4350.4	4536.0	4765.9	5054.9	5202.8	5261.9
7.5°	2967.6	3066.1	3177.8	3299.3	3465.3	3754.2	4002.2	4268.3	4637.8	4790.5	5022.1
10°	2422.3	2532.4	2680.2	2773.8	2974.2	3250.0	3539.1	3846.2	4199.3	4419.4	4687.1
12.5°	2141.5	2231.8	2368.2	2565.2	2714.7	2893.7	3108.8	3496.5	4002.2	4210.8	4394.7
15°	1831.1	1931.4	2089.0	2307.5	2486.4	2699.9	2941.3	3363.4	3902.1	4223.9	4380.0
17.5°	1574.9	1647.2	1813.1	2001.9	2207.2	2440.4	2787.0	3356.9	4007.2	4419.4	4673.9
20°	1397.6	1407.4	1497.7	1658.7	1937.9	2241.7	2691.7	3324.0	4343.8	4756.0	5078.0
22.5°	1285.9	1276.0	1277.7	1414.0	1609.4	2046.3	2542.3	3435.7	4726.5	5291.4	5508.2
25°	1230.0	1203.8	1187.4	1216.9	1394.3	1814.7	2429.0	3583.5	5138.7	5733.2	5999.3
27.5°	1200.5	1154.5	1121.6	1126.6	1256.4	1698.1	2358.3	3647.5	5547.7	6349.0	6442.6
30°	1189.0	1131.6	1083.9	1067.5	1152.8	1535.5	2207.2	3757.6	5913.8	6687.4	6767.9
32.5°	1148.0	1077.3	1031.3	1016.6	1051.1	1392.7	2098.8	3836.4	6237.4	7055.2	7027.3
35°	1100.4	1041.2	983.7	955.8	980.4	1300.7	2011.8	3798.6	6618.4	7341.0	7326.2
37.5°	1095.4	1018.2	970.6	924.6	923.0	1187.4	1893.6	3834.7	6861.5	7853.4	7651.4
40°	1052.7	1003.4	941.0	903.2	881.9	1129.9	1778.6	3749.3	7217.9	8060.3	7861.6
42.5°	1054.4	980.4	926.3	881.9	860.6	1046.1	1699.7	3726.3	7342.7	8397.0	7960.1
45°	1028.0	955.8	909.8	857.2	845.8	982.1	1624.2	3619.6	7562.7	8413.4	7836.9
47.5°	1001.8	937.7	888.5	826.0	799.8	959.1	1565.1	3530.9	7447.7	8259.0	7666.2
50°	983.7	909.8	863.9	819.5	745.6	919.7	1487.9	3509.6	7286.8	8050.5	7349.2
52.5°	952.5	886.8	839.2	804.8	686.5	883.6	1458.4	3634.4	7483.9	7894.5	7257.2
55°	923.0	855.6	794.8	727.5	637.2	788.3	1376.2	3750.9	7771.3	8254.2	7674.4
57.5°	891.8	827.7	762.0	681.5	589.5	689.8	1290.9	3772.3	7232.6	7628.4	7285.2
60°	850.7	768.6	719.3	614.2	538.7	571.5	1023.2	3325.7	5610.1	6370.4	6381.9
62.5°	804.8	716.0	673.3	550.2	486.1	492.7	834.3	2795.1	4550.7	5273.4	5587.0
65°	743.9	658.6	607.6	509.1	448.3	427.0	610.9	2047.9	3457.0	4278.2	4634.5
67.5°	665.1	584.7	520.6	443.4	400.7	366.3	417.1	1152.8	2041.4	2872.4	2980.8
70°	581.4	512.4	445.1	381.0	333.4	308.7	305.5	510.7	975.5	1545.4	1758.9
72.5°	458.2	408.9	354.7	307.1	275.9	239.8	218.4	211.8	330.1	629.0	868.8
75°	328.5	287.4	256.2	225.0	202.0	182.3	165.8	151.1	137.9	157.7	216.8
77.5°	206.9	192.2	167.5	159.3	146.2	141.2	134.6	126.5	116.6	110.0	110.0
80°	139.6	129.8	121.5	119.9	115.0	113.3	115.0	106.7	96.9	88.6	92.0
82.5°	93.6	92.0	90.3	88.6	90.3	92.0	95.3	93.6	85.4	80.5	82.1
85°	55.8	59.1	62.4	65.7	72.2	64.1	52.6	44.3	39.4	36.2	34.5
87.5°	21.4	29.5	26.2	24.6	26.2	24.6	23.0	21.4	18.1	16.4	16.4
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: P651849

CATALOG NUMBER: GALN-SA4A-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7	5028.7
2.5°	5437.6	5470.5	5498.4	5491.8	5434.3	5357.2	5326.0	5166.6	5133.8	5112.4
5°	5511.5	5702.0	5743.1	5718.5	5569.0	5380.1	5196.2	4963.0	4826.7	4821.8
7.5°	5375.2	5610.1	5684.0	5739.8	5541.1	5212.6	4897.3	4547.5	4462.1	4468.7
10°	5028.7	5403.1	5585.4	5642.9	5414.6	5130.5	4693.6	4338.9	4156.6	4153.4
12.5°	4836.5	5130.5	5181.4	5261.9	5194.5	4907.2	4575.4	4178.0	4000.6	3997.4
15°	4665.7	4859.6	4874.3	4987.6	5023.7	4829.9	4606.6	4182.9	4040.0	4025.3
17.5°	4815.1	4680.5	4624.7	4639.5	4746.2	4816.8	4787.2	4462.1	4315.9	4233.8
20°	4915.4	4614.8	4445.7	4462.1	4588.6	4846.3	5056.6	4866.1	4634.5	4644.4
22.5°	5183.1	4624.7	4360.2	4342.2	4542.6	5000.8	5360.4	5376.8	5153.5	5099.3
25°	5583.7	4738.0	4334.0	4329.0	4521.2	5166.6	5715.2	5981.2	5752.9	5652.8
27.5°	5905.7	4915.4	4416.1	4432.5	4588.6	5301.3	6017.4	6370.4	6196.3	6073.2
30°	6188.2	5099.3	4531.1	4455.5	4769.2	5371.9	6147.0	6813.9	6674.3	6572.4
32.5°	6304.7	5360.4	4713.4	4588.6	4918.7	5457.3	6416.4	7244.1	7124.2	6873.0
35°	6501.8	5506.6	4811.9	4802.0	5179.8	5662.6	6542.9	7528.2	7478.9	7255.6
37.5°	6659.5	5654.4	5161.7	5053.3	5537.8	6007.5	6746.5	7920.7	7807.4	7702.3
40°	6781.0	5918.8	5488.5	5631.4	5977.9	6321.1	6933.7	7945.3	8272.2	7966.7
42.5°	6669.3	6155.3	6025.5	6367.1	6695.6	6679.1	6955.1	8135.9	8380.6	8221.3
45°	6641.4	6556.0	6874.6	7185.0	7260.5	6976.4	6802.3	7925.7	8347.8	8277.1
47.5°	6574.1	6950.1	7505.3	8011.0	7896.1	7175.2	6620.0	7887.9	8367.4	8241.0
50°	6551.1	7035.6	7971.7	8464.3	8395.4	7347.6	6534.7	7644.9	8227.8	8216.3
52.5°	6549.5	7211.2	8165.4	8710.7	8753.4	7620.2	6651.2	7768.0	8336.2	8433.1
55°	6623.3	7155.4	8140.8	8574.3	8557.9	7498.7	6664.4	7850.1	8469.3	8564.5
57.5°	6247.3	6409.8	6718.6	7061.8	6973.2	6211.1	5951.7	7257.2	7772.9	7704.0
60°	5394.9	4885.8	4537.6	4521.2	4348.8	4110.6	4871.0	6477.1	6477.1	6409.8
62.5°	4724.8	3207.4	2755.8	2627.6	2750.8	3025.1	4698.6	6299.8	6120.8	6043.6
65°	4132.0	2448.7	1992.1	1956.0	2169.4	2583.3	4248.6	5367.0	5051.6	4795.5
67.5°	2658.8	1793.3	1481.3	1417.3	1675.1	1896.9	2828.0	3301.0	3102.3	3002.1
70°	1714.5	1167.6	824.4	773.6	873.7	1169.3	1806.6	1924.8	1635.7	1568.4
72.5°	811.3	504.2	289.1	238.2	267.7	446.7	714.4	768.6	638.8	584.7
75°	257.9	185.6	118.2	101.8	96.9	115.0	164.2	126.5	92.0	90.3
77.5°	115.0	110.0	93.6	78.8	69.0	57.4	47.6	39.4	41.0	42.7
80°	95.3	87.0	77.2	69.0	57.4	44.3	34.5	26.2	26.2	27.9
82.5°	83.8	75.5	67.4	57.4	49.3	36.2	26.2	18.1	16.4	16.4
85°	36.2	42.7	46.0	49.3	39.4	29.5	18.1	11.5	9.8	9.8
87.5°	14.8	13.1	11.5	9.8	8.2	8.2	6.6	5.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)