

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P640144

Luminaire Tested: LCR621RD9FSE020-23W-3000K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2208386A001)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: LCR621RD9FSE020-23W-3000K
Description: LCR 6
Light Source: 3000K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

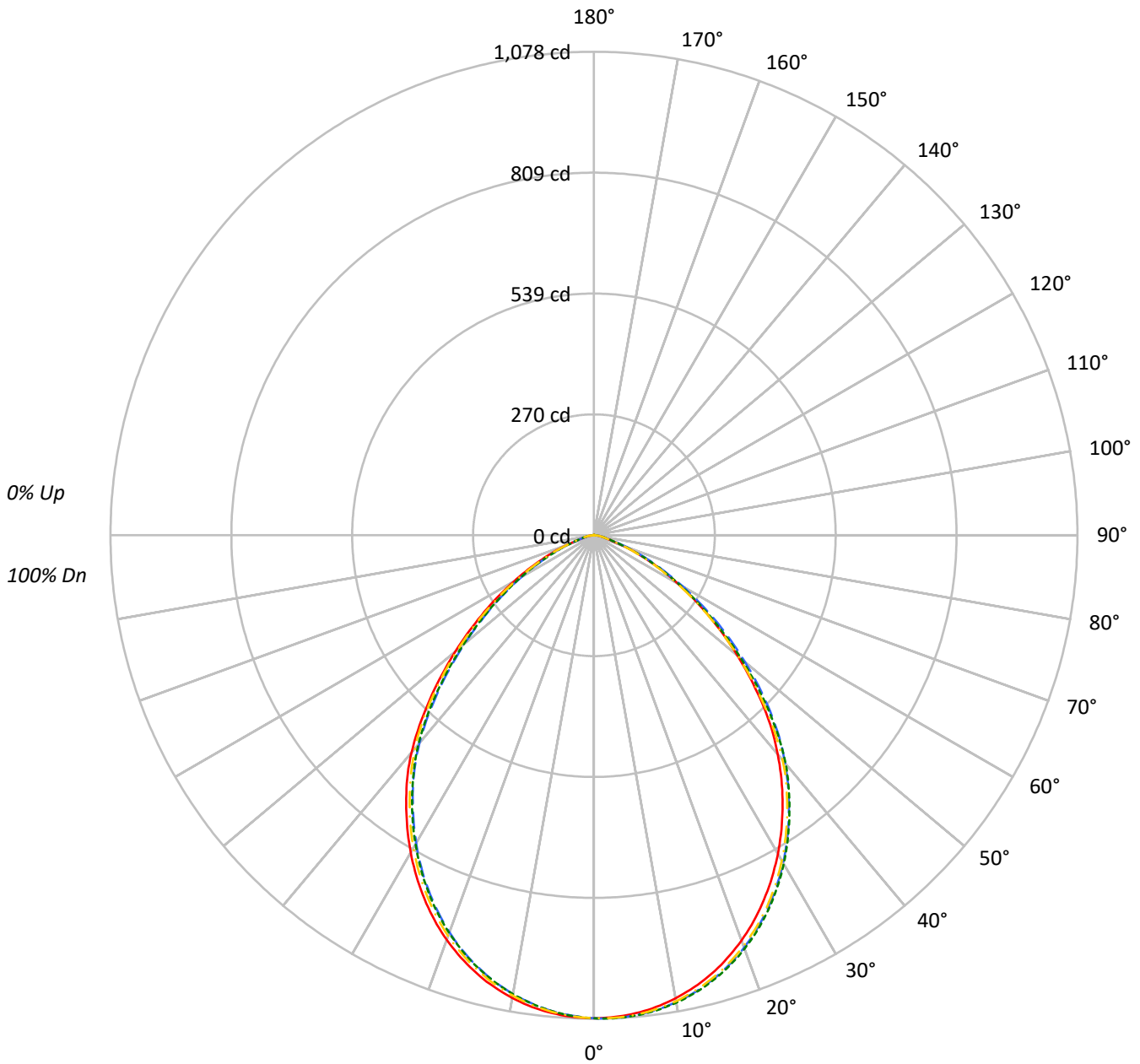
Lumens per Lamp: N/A
Luminaire Lumens: 2105.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.15 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 22.9
Input Voltage (V): 120
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



TEST NUMBER: P640144
CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	90	90	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	79	79	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	70	70	70	68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	61	61	61	60
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	55	55	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	49	49	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	44	44	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	40	40	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	36	36	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33	33	33	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	59041	59041	59041	59041
5°	58876	59151	58860	58629
10°	58349	58911	58321	57842
15°	57458	58292	57378	56669
20°	56110	57242	55993	55060
25°	54251	55697	54106	52951
30°	51919	53584	51704	50362
35°	49061	50862	48834	47281
40°	45621	47568	45285	43589
45°	41136	42586	40105	38368
50°	35615	36579	34404	32485
55°	29839	30374	28520	26551
60°	23814	24121	22619	20733
65°	17628	17875	16707	15047
70°	11220	11717	10707	9793
75°	6736	6799	6100	6439
80°	5588	5840	4988	5398
85°	4151	5032	3397	4151

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 43152 cd/sqm



TEST NUMBER: P640144
 CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	4.8
10°-20°	284.9	13.5
20°-30°	412.1	19.6
30°-40°	456.9	21.7
40°-50°	402.2	19.1
50°-60°	270.4	12.8
60°-70°	130.1	6.2
70°-80°	37.3	1.8
80°-90°	8.0	0.4
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.2	0.0
120°-130°	0.2	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	798.5	37.9
0°-40°	1255.4	59.6
0°-60°	1927.9	91.6
0°-90°	2103.3	99.9
90°-120°	0.4	0.0
90°-150°	1.2	0.1
90°-180°	2.0	0.1
0°-180°	2105.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1077	1077	1077	1077	1077	
5°	1070	1075	1070	1065	1070	101
15°	1012	1027	1011	998	1012	285
25°	897	921	894	875	897	412
35°	733	760	730	706	733	457
45°	531	549	517	495	531	408
55°	312	318	298	278	312	280
65°	136	138	129	116	136	136
75°	32	32	29	30	32	38
85°	7	8	5	7	7	8
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	1	1	0	0	0
165°	0	1	1	0	0	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0
0.5°	1077.0	1077.3	1077.5	1077.6	1077.4	1077.4	1077.0	1077.0	1076.8	1076.7	1076.4
1°	1076.8	1077.1	1077.6	1078.0	1077.9	1077.6	1077.2	1076.9	1076.7	1076.1	1075.7
1.5°	1076.3	1076.9	1077.6	1078.1	1078.0	1077.6	1077.4	1076.8	1076.2	1075.5	1074.8
2°	1075.9	1076.5	1077.6	1078.1	1078.0	1077.5	1077.2	1076.4	1075.7	1074.9	1073.7
2.5°	1075.1	1076.1	1077.4	1078.0	1077.8	1077.4	1076.8	1076.1	1075.1	1074.1	1072.8
3°	1074.3	1075.5	1077.1	1077.7	1077.5	1076.9	1076.4	1075.5	1074.3	1073.2	1071.5
3.5°	1073.4	1074.7	1076.5	1077.2	1077.1	1076.3	1075.7	1074.8	1073.4	1072.2	1070.2
4°	1072.4	1073.7	1075.9	1076.7	1076.5	1075.7	1074.9	1073.7	1072.3	1071.0	1068.7
4.5°	1071.4	1072.7	1075.0	1076.1	1075.6	1075.1	1074.0	1072.5	1070.9	1069.5	1066.9
5°	1069.9	1071.5	1074.0	1075.2	1074.9	1074.3	1072.9	1071.3	1069.6	1067.9	1065.1
5.5°	1068.5	1070.2	1073.1	1074.4	1073.9	1073.4	1071.7	1070.0	1068.1	1066.1	1063.1
6°	1066.8	1068.8	1072.0	1073.3	1072.8	1072.2	1070.5	1068.7	1066.3	1064.2	1060.9
6.5°	1065.0	1067.2	1070.4	1072.1	1071.5	1070.8	1069.2	1067.1	1064.6	1062.2	1058.6
7°	1063.1	1065.4	1069.0	1070.6	1070.1	1069.4	1067.6	1065.3	1062.7	1059.9	1056.1
7.5°	1061.0	1063.3	1067.3	1069.2	1068.5	1067.7	1065.9	1063.4	1060.5	1057.6	1053.5
8°	1058.7	1061.2	1065.6	1067.5	1066.7	1065.9	1063.9	1061.2	1058.2	1055.2	1050.7
8.5°	1056.3	1058.9	1063.7	1065.6	1064.6	1063.8	1061.8	1058.9	1055.8	1052.6	1047.9
9°	1053.7	1056.5	1061.5	1063.6	1062.6	1061.8	1059.5	1056.7	1053.2	1049.9	1045.0
9.5°	1051.0	1054.1	1059.1	1061.3	1060.7	1059.5	1057.3	1054.2	1050.6	1046.9	1042.0
10°	1048.2	1051.4	1056.9	1059.2	1058.3	1057.4	1054.9	1051.5	1047.7	1044.0	1038.6
10.5°	1045.4	1048.5	1054.4	1056.7	1055.9	1055.0	1052.3	1048.6	1044.7	1040.9	1035.1
11°	1042.2	1045.6	1051.9	1054.1	1053.3	1052.2	1049.5	1045.6	1041.5	1037.5	1031.4
11.5°	1039.0	1042.5	1049.0	1051.3	1050.6	1049.5	1046.5	1042.5	1038.0	1034.2	1027.6
12°	1035.5	1039.3	1046.0	1048.5	1047.7	1046.5	1043.4	1039.4	1034.6	1030.6	1023.9
12.5°	1032.1	1035.9	1043.0	1045.5	1044.8	1043.4	1040.3	1035.9	1031.1	1027.0	1020.0
13°	1028.4	1032.4	1039.8	1042.4	1041.5	1040.2	1037.1	1032.5	1027.4	1023.1	1015.8
13.5°	1024.4	1028.5	1036.4	1039.2	1038.3	1036.8	1033.6	1028.7	1023.7	1019.0	1011.4
14°	1020.7	1024.7	1032.8	1035.8	1034.7	1033.4	1030.0	1024.9	1019.7	1014.7	1006.9
14.5°	1016.5	1020.7	1029.0	1032.2	1030.8	1029.7	1026.2	1021.2	1015.5	1010.4	1002.2
15°	1012.4	1016.6	1025.2	1028.5	1027.1	1026.0	1022.3	1017.1	1011.0	1005.8	997.4
15.5°	1008.0	1012.3	1021.4	1024.7	1023.3	1022.1	1018.2	1012.8	1006.5	1001.2	992.5
16°	1003.4	1008.0	1017.3	1020.6	1019.4	1018.0	1013.8	1008.3	1001.8	996.3	987.6
16.5°	998.7	1003.3	1013.0	1016.3	1015.2	1013.5	1009.4	1003.7	997.2	991.5	982.3
17°	993.7	998.7	1008.3	1012.0	1010.7	1009.2	1005.0	999.0	992.3	986.3	976.8
17.5°	988.6	993.7	1003.6	1007.5	1006.2	1004.5	1000.2	994.2	987.2	981.1	971.2
18°	983.5	988.7	999.0	1002.8	1001.3	999.7	995.5	989.1	982.0	975.8	965.7
18.5°	978.3	983.7	994.1	998.1	996.7	994.9	990.6	983.9	976.6	970.3	960.1
19°	972.9	978.5	989.0	993.3	991.7	990.1	985.6	978.6	971.1	964.5	954.2
19.5°	967.3	972.9	983.9	988.1	986.6	984.9	980.3	973.2	965.4	958.8	948.1
20°	961.8	967.4	978.6	983.0	981.2	979.7	974.9	967.6	959.8	953.0	941.9
20.5°	955.9	961.8	973.1	977.6	975.8	974.1	969.4	962.0	954.0	946.8	935.5
21°	949.8	955.9	967.6	972.0	970.2	968.4	963.8	956.1	948.0	940.4	929.0
21.5°	943.6	949.7	961.8	966.4	964.6	962.8	957.8	950.1	941.7	934.2	922.5
22°	937.3	943.7	955.9	960.7	958.9	957.1	951.8	943.9	935.3	927.7	915.8



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	930.9	937.3	949.8	954.8	953.1	951.1	945.8	937.4	928.7	921.1	908.8
23°	924.4	930.7	943.6	948.7	946.9	944.9	939.7	931.1	922.1	914.3	902.1
23.5°	917.7	924.3	937.4	942.4	940.6	938.8	933.1	924.7	915.4	907.5	894.8
24°	910.9	917.6	931.0	936.1	934.1	932.3	926.5	918.1	908.6	900.6	887.7
24.5°	903.9	910.8	924.2	929.5	927.4	925.6	920.0	911.2	901.7	893.6	880.3
25°	896.9	903.9	917.4	922.6	920.8	918.9	913.4	904.1	894.5	886.1	873.0
25.5°	889.6	896.9	910.7	915.8	913.9	912.0	906.3	897.2	887.3	878.7	865.4
26°	882.4	889.6	903.5	909.0	906.9	905.1	899.2	890.0	879.9	871.1	857.8
26.5°	875.1	882.2	896.5	902.1	900.1	897.9	892.0	882.6	872.4	863.7	850.0
27°	867.6	875.0	889.2	894.8	892.6	890.7	884.9	875.1	864.7	855.8	842.1
27.5°	859.8	867.3	882.0	887.7	885.1	883.4	877.2	867.6	857.2	848.1	834.0
28°	852.4	859.8	874.4	880.0	877.7	875.8	869.5	859.8	849.5	840.1	825.9
28.5°	844.1	852.1	867.0	872.5	870.0	868.1	861.9	852.2	841.4	832.2	817.9
29°	836.6	844.1	859.4	864.6	862.3	860.5	854.3	844.1	833.6	824.0	809.6
29.5°	828.3	836.1	851.3	857.1	854.4	852.6	846.2	836.2	825.2	815.9	801.0
30°	820.2	828.0	843.2	849.0	846.5	844.6	838.1	827.9	816.8	807.3	792.5
30.5°	812.0	819.9	835.4	841.1	838.3	836.3	829.7	819.7	808.6	798.9	783.9
31°	803.6	811.5	827.3	832.7	830.0	828.3	821.8	811.1	800.0	790.2	775.4
31.5°	795.2	803.1	818.7	824.6	821.5	819.7	813.2	802.8	791.5	781.7	766.5
32°	786.6	794.7	810.2	815.9	813.0	811.2	804.5	794.0	782.7	773.0	757.8
32.5°	777.8	786.0	801.9	807.4	804.5	802.4	796.0	785.6	774.3	764.2	749.1
33°	769.2	777.3	793.6	798.8	795.7	794.0	787.1	776.6	765.2	755.4	740.2
33.5°	760.3	768.5	784.9	789.9	786.6	785.0	778.3	767.8	756.6	746.8	731.2
34°	751.4	759.8	776.0	780.9	778.0	776.0	769.3	759.1	747.6	737.7	722.3
34.5°	742.2	750.7	766.9	772.1	768.9	766.8	760.2	750.1	738.9	728.4	713.3
35°	733.1	741.4	757.8	762.9	760.0	757.7	751.4	741.2	729.7	719.1	704.3
35.5°	724.1	732.2	748.7	753.7	750.7	748.8	742.3	732.0	720.6	709.8	695.4
36°	715.0	723.0	739.6	744.7	741.8	739.7	733.0	722.8	711.5	700.5	686.1
36.5°	705.8	713.8	730.4	735.6	732.4	730.3	723.7	713.7	702.4	692.6	676.2
37°	696.3	704.4	721.1	726.1	723.0	720.9	714.4	704.5	693.2	683.0	666.5
37.5°	686.9	694.6	711.9	716.6	713.6	711.5	705.1	695.3	683.8	673.4	656.6
38°	677.1	684.8	702.3	706.9	704.2	702.1	695.8	685.8	674.2	663.5	646.6
38.5°	667.4	675.1	692.5	697.2	694.7	692.7	686.2	675.9	664.6	653.6	636.7
39°	657.8	665.6	682.5	687.3	685.0	682.8	676.1	665.8	654.2	643.9	626.8
39.5°	647.5	655.7	672.6	677.6	675.0	672.4	665.5	654.9	643.9	633.8	616.0
40°	637.5	645.5	662.7	667.3	664.7	661.6	654.4	644.2	632.8	623.0	605.1
40.5°	627.4	635.7	652.7	657.4	653.9	650.6	643.1	632.7	621.8	611.8	594.0
41°	617.4	625.4	642.6	647.3	643.1	639.3	631.8	621.5	610.3	600.4	582.8
41.5°	607.3	615.5	632.6	636.7	631.8	627.9	620.3	610.1	598.9	589.0	571.1
42°	597.3	605.5	622.1	625.9	620.4	616.2	608.7	598.5	587.1	577.5	559.6
42.5°	586.7	594.6	611.5	614.6	609.0	604.1	597.2	586.8	575.7	566.0	548.0
43°	576.0	583.7	600.7	603.4	597.0	592.4	585.0	575.2	564.2	554.5	536.4
43.5°	564.8	572.6	589.5	591.8	585.1	580.5	573.4	563.5	552.5	542.7	524.6
44°	553.3	561.1	578.0	580.2	573.3	568.4	561.5	551.8	540.5	530.9	512.9
44.5°	542.2	550.2	566.3	568.5	561.3	556.3	549.6	539.9	528.9	519.3	501.3



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	530.6	538.7	555.3	556.6	549.3	544.4	537.6	528.1	517.3	507.8	489.6
45.5°	519.5	527.5	543.8	544.8	537.2	532.3	525.7	516.3	505.7	496.0	478.0
46°	508.1	515.9	532.4	533.1	525.0	520.2	513.7	504.5	494.1	484.5	466.5
46.5°	496.3	504.5	520.8	521.0	513.0	508.2	502.0	492.9	482.4	472.9	454.8
47°	485.0	493.0	509.0	509.0	500.9	495.8	490.1	481.1	470.8	461.4	443.3
47.5°	473.9	481.6	497.5	497.1	488.6	483.7	477.9	469.4	459.3	449.9	432.1
48°	462.5	470.5	486.0	485.2	476.6	471.6	466.1	458.0	447.9	438.4	420.6
48.5°	451.4	459.3	474.4	473.4	464.7	459.8	454.5	446.6	436.6	427.4	409.5
49°	440.0	447.8	462.9	461.8	452.7	448.0	442.8	435.0	425.3	416.3	398.3
49.5°	428.9	436.9	451.4	449.8	440.8	436.2	431.2	423.9	414.2	405.2	387.5
50°	417.6	425.4	439.9	438.3	428.9	424.4	419.5	412.4	403.4	394.3	376.4
50.5°	406.8	414.3	428.3	426.5	417.3	412.8	408.0	401.2	392.5	383.3	365.6
51°	395.6	403.1	417.0	415.1	405.7	401.3	396.5	390.2	381.2	372.5	355.0
51.5°	384.9	392.3	405.8	403.5	394.4	389.9	385.4	379.2	370.5	362.0	344.4
52°	374.2	381.5	394.5	392.5	383.1	378.7	374.0	368.4	360.1	351.5	333.7
52.5°	363.7	370.5	383.4	381.0	371.7	367.3	362.9	357.3	349.2	340.9	323.8
53°	353.0	359.5	372.6	369.8	360.6	356.4	352.0	346.7	338.9	330.6	313.5
53.5°	342.8	349.7	361.4	358.5	349.7	345.7	341.2	336.0	328.5	320.4	303.4
54°	332.6	339.3	350.9	346.0	338.8	334.6	330.6	325.6	318.5	310.2	293.5
54.5°	322.4	328.8	340.3	335.8	328.2	324.0	319.8	315.0	308.3	300.4	284.1
55°	312.2	318.4	329.6	325.6	317.8	313.5	309.6	305.2	298.4	290.7	274.0
55.5°	302.0	307.9	318.9	315.4	307.2	303.2	299.2	294.9	288.6	281.0	264.7
56°	291.8	297.5	308.3	305.3	296.9	292.7	289.0	285.0	279.0	271.2	255.3
56.5°	282.2	287.5	297.6	295.0	286.9	282.6	279.0	275.2	269.3	261.8	246.2
57°	272.5	277.6	287.5	284.9	276.8	272.7	268.9	265.5	259.8	252.6	237.1
57.5°	262.9	267.7	277.3	274.7	267.0	262.9	259.3	255.9	250.6	243.6	228.3
58°	253.7	258.1	267.3	264.9	257.1	253.2	249.8	246.7	241.6	234.5	219.6
58.5°	244.3	248.6	257.8	255.3	247.9	243.8	240.4	237.4	232.5	225.8	211.1
59°	235.1	239.3	248.0	245.7	238.3	234.4	231.1	228.3	223.7	217.1	202.5
59.5°	226.1	230.1	238.4	236.4	229.1	225.2	221.9	219.3	215.0	208.5	194.2
60°	217.2	220.8	228.9	227.0	220.0	216.0	212.9	210.3	206.3	200.1	186.3
60.5°	208.5	211.8	219.9	218.0	211.1	207.2	204.1	201.8	197.9	191.7	178.5
61°	199.9	203.0	210.6	208.9	202.2	198.6	195.7	193.4	189.6	183.8	170.7
61.5°	191.3	194.5	201.7	200.2	193.8	190.1	187.1	185.0	181.5	175.9	162.9
62°	183.0	185.7	193.0	191.6	185.3	181.9	178.7	176.8	173.6	168.2	155.5
62.5°	174.7	177.3	184.6	183.0	176.9	173.6	170.6	168.7	165.8	160.5	148.2
63°	166.7	169.1	176.2	174.8	168.5	165.5	162.7	160.8	158.0	152.9	141.3
63.5°	158.8	161.0	168.0	166.6	160.7	157.4	154.8	153.1	150.4	145.6	134.3
64°	150.9	153.1	159.6	158.6	152.8	149.9	147.3	145.6	143.1	138.7	127.5
64.5°	143.2	145.3	151.9	150.7	145.2	142.3	139.7	138.2	135.9	131.7	121.0
65°	135.9	137.6	144.2	143.1	137.8	134.8	132.6	131.0	128.8	124.8	114.7
65.5°	128.6	130.0	136.8	135.7	130.4	127.6	125.4	124.0	122.0	118.2	108.3
66°	121.3	123.0	129.3	128.3	123.1	120.6	118.5	117.1	115.3	111.8	102.3
66.5°	114.3	116.0	122.2	121.2	116.2	113.7	111.8	110.5	108.8	105.5	96.4
67°	107.5	108.9	115.3	114.3	109.4	107.2	105.3	103.9	102.3	99.5	90.9



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	100.8	102.3	108.5	107.4	102.9	100.6	98.9	97.7	96.2	93.5	85.7
68°	94.6	95.9	101.8	100.9	96.3	94.4	92.9	91.7	90.3	88.1	80.5
68.5°	88.2	89.6	95.7	94.6	90.5	88.7	87.3	86.1	84.4	82.7	75.3
69°	82.0	83.6	89.5	88.5	84.7	83.0	81.6	80.5	78.5	77.3	70.1
69.5°	75.8	77.8	83.6	82.5	78.9	77.3	75.9	74.9	72.7	72.0	65.2
70°	70.0	72.2	77.7	76.7	73.1	71.7	70.3	69.3	66.8	66.6	60.8
70.5°	64.4	66.8	72.4	71.3	67.3	66.0	65.2	64.3	61.7	61.8	56.5
71°	59.2	61.7	67.1	66.1	62.2	61.2	60.3	59.3	56.6	57.2	52.3
71.5°	54.2	56.8	62.1	61.2	57.3	56.4	55.8	54.7	52.1	52.9	48.4
72°	49.7	52.2	57.5	56.4	52.9	51.8	51.4	50.2	47.8	48.8	44.9
72.5°	45.4	48.0	53.1	52.0	48.5	47.7	47.3	46.2	44.0	45.0	41.4
73°	41.8	44.1	48.9	47.9	44.5	43.8	43.5	42.4	40.3	41.5	38.2
73.5°	38.5	40.7	45.1	44.1	40.9	40.2	40.0	39.0	37.1	38.3	35.2
74°	35.4	37.5	41.5	40.6	37.7	37.0	36.8	35.8	34.1	35.2	32.6
74.5°	33.6	34.7	38.3	37.4	34.8	34.1	34.0	33.1	31.3	32.5	30.2
75°	31.8	32.9	35.3	34.4	32.1	31.5	31.3	30.4	28.8	29.9	28.0
75.5°	30.1	31.0	33.4	32.5	30.0	29.3	29.0	28.2	27.2	27.7	26.1
76°	28.3	29.1	31.5	30.6	28.3	27.6	27.0	26.1	25.5	25.6	24.8
76.5°	26.5	27.3	29.6	28.7	27.0	26.4	25.6	24.5	24.0	24.1	23.6
77°	25.2	25.4	27.7	26.8	25.7	25.1	24.4	23.3	22.8	22.9	22.4
77.5°	23.9	24.1	25.8	25.6	24.5	23.9	23.2	22.2	21.6	21.7	21.3
78°	22.7	22.9	24.5	24.3	23.3	22.7	22.0	21.0	20.5	20.6	20.1
78.5°	21.4	21.6	23.3	23.1	22.0	21.5	20.8	19.8	19.3	19.4	18.9
79°	20.1	20.4	22.0	21.8	20.9	20.3	19.6	18.6	18.1	18.3	17.8
79.5°	18.9	19.2	20.8	20.7	19.7	19.1	18.4	17.5	17.0	17.1	16.7
80°	17.7	18.0	19.6	19.5	18.5	18.0	17.3	16.3	15.8	16.0	15.6
80.5°	16.5	16.8	18.4	18.3	17.3	16.9	16.2	15.2	14.7	14.9	14.5
81°	15.3	15.6	17.3	17.2	16.2	15.8	15.1	14.1	13.6	13.8	13.4
81.5°	14.1	14.4	16.1	16.1	15.2	14.7	14.0	13.0	12.5	12.7	12.4
82°	13.0	13.3	15.0	15.0	14.1	13.6	13.0	11.9	11.5	11.6	11.3
82.5°	11.9	12.2	13.9	13.9	13.0	12.6	11.9	10.8	10.4	10.5	10.3
83°	10.8	11.1	12.8	12.8	12.0	11.5	10.9	9.8	9.4	9.5	9.3
83.5°	9.7	10.0	11.7	11.8	10.9	10.5	9.9	8.8	8.4	8.5	8.4
84°	8.7	9.0	10.7	10.7	9.9	9.5	8.9	7.9	7.4	7.5	7.4
84.5°	7.7	7.9	9.7	9.7	8.9	8.6	8.0	6.9	6.4	6.5	6.4
85°	6.6	6.9	8.7	8.7	8.0	7.6	7.0	5.9	5.4	5.5	5.5
85.5°	5.6	5.9	7.7	7.7	7.0	6.7	6.1	5.0	4.5	4.7	4.5
86°	4.6	5.0	6.7	6.8	6.0	5.7	5.1	4.1	3.7	3.9	3.7
86.5°	3.8	4.2	5.8	5.8	5.1	4.7	4.2	3.3	3.0	3.0	2.8
87°	3.1	3.3	4.9	4.9	4.2	3.9	3.4	2.5	2.2	2.3	2.0
87.5°	2.4	2.6	4.0	4.0	3.3	3.0	2.6	1.9	1.5	1.6	1.1
88°	1.7	1.9	3.2	3.2	2.4	2.1	1.8	1.2	0.9	1.0	0.4
88.5°	0.9	1.2	2.5	2.4	1.5	1.3	1.0	0.6	0.4	0.4	0.1
89°	0.4	0.5	1.7	1.7	0.7	0.5	0.3	0.2	0.1	0.1	0.1
89.5°	0.1	0.2	0.9	0.9	0.2	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P640144
 CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
91°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
91.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
93°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
104°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
104.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
106°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
106.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
108°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
108.5°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
112°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
113°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
113.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
114°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
114.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2
115°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
115.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
116°	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
116.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
117°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
117.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
118°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
118.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
119°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
119.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
120.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
121°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
121.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
122°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
122.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
123.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
124°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
124.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
125°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
125.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
126°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3
126.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
127°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
127.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
128°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
128.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
129°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
129.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
130°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
130.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
131°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
131.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
132°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
132.5°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
133°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
133.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
134°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4
134.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4



TEST NUMBER: P640144
 CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4
135.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
136°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
136.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
137°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
137.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
138°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
138.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
139°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
139.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
140°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
140.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
141°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
141.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
142°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
142.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
143°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5
143.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
144°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
144.5°	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145.5°	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
146°	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
146.5°	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
147°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
148°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
148.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
149°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
149.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
150.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
151°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
151.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
152°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
153°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
153.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
154°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
154.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
155.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
156°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
156.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
157°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6



TEST NUMBER: P640144
 CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
158°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
158.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
159°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
159.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
161°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
161.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
162°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
162.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
163°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
163.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
164°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.6	0.6
164.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.6	0.7
165°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7
165.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7
166°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7
166.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7
167°	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7
167.5°	0.6	0.6	0.5	0.5	0.7	0.6	0.7	0.7	0.7	0.7	0.7
168°	0.6	0.6	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
168.5°	0.6	0.6	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
169°	0.6	0.6	0.6	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
169.5°	0.6	0.6	0.6	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
170°	0.6	0.6	0.6	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
170.5°	0.6	0.6	0.6	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
171°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
171.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
172°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
172.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
173°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
173.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
174°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
174.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
175°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
175.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
176°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
176.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
177°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
177.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
178°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
178.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
179°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
179.5°	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P640144
CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0
0.5°	1076.4	1076.6	1076.6	1076.7	1076.8	1077.0
1°	1075.6	1076.0	1076.0	1076.2	1076.6	1076.8
1.5°	1074.8	1075.2	1075.3	1075.5	1076.0	1076.3
2°	1073.7	1074.3	1074.3	1074.7	1075.4	1075.9
2.5°	1072.6	1073.3	1073.3	1073.6	1074.6	1075.1
3°	1071.2	1072.0	1072.0	1072.4	1073.5	1074.3
3.5°	1069.8	1070.5	1070.7	1071.1	1072.2	1073.4
4°	1068.2	1069.0	1069.4	1070.0	1070.9	1072.4
4.5°	1066.5	1067.2	1067.7	1068.5	1069.6	1071.4
5°	1064.6	1065.4	1066.0	1067.0	1068.3	1069.9
5.5°	1062.7	1063.3	1064.1	1065.2	1066.8	1068.5
6°	1060.3	1061.2	1062.1	1063.0	1065.1	1066.8
6.5°	1058.1	1058.9	1059.8	1061.0	1063.2	1065.0
7°	1055.3	1056.5	1057.5	1058.7	1061.0	1063.1
7.5°	1052.7	1054.0	1054.9	1056.5	1058.7	1061.0
8°	1049.9	1051.2	1052.3	1053.9	1056.1	1058.7
8.5°	1047.0	1048.4	1049.5	1051.2	1053.4	1056.3
9°	1044.1	1045.4	1046.5	1048.5	1050.9	1053.7
9.5°	1040.9	1042.4	1043.6	1045.5	1048.0	1051.0
10°	1037.6	1039.1	1040.5	1042.5	1045.2	1048.2
10.5°	1034.1	1035.5	1037.3	1039.3	1042.0	1045.4
11°	1030.3	1032.1	1033.7	1035.8	1038.9	1042.2
11.5°	1026.4	1028.4	1029.9	1032.3	1035.5	1039.0
12°	1022.4	1024.5	1026.1	1028.5	1031.9	1035.5
12.5°	1018.5	1020.6	1022.3	1024.7	1028.3	1032.1
13°	1014.4	1016.5	1018.3	1021.0	1024.4	1028.4
13.5°	1009.9	1012.2	1014.0	1016.9	1020.5	1024.4
14°	1005.3	1007.8	1009.7	1012.6	1016.4	1020.7
14.5°	1000.7	1003.1	1005.2	1008.2	1012.1	1016.5
15°	996.0	998.5	1000.5	1003.7	1007.7	1012.4
15.5°	990.9	993.6	995.8	998.9	1003.0	1008.0
16°	985.7	988.6	990.9	994.2	998.4	1003.4
16.5°	980.4	983.6	985.9	989.2	993.5	998.7
17°	974.9	978.3	980.6	984.1	988.5	993.7
17.5°	969.3	973.0	975.3	978.8	983.4	988.6
18°	963.8	967.2	969.7	973.4	978.1	983.5
18.5°	958.2	961.7	963.9	967.9	972.4	978.3
19°	952.2	955.8	958.5	962.4	967.0	972.9
19.5°	946.2	950.0	952.6	956.7	961.6	967.3
20°	940.0	943.8	946.7	950.8	955.7	961.8
20.5°	933.4	937.5	940.5	944.6	949.7	955.9
21°	926.9	931.0	934.0	938.3	943.6	949.8
21.5°	920.2	924.5	927.5	932.0	937.4	943.6
22°	913.7	917.9	920.9	925.4	931.0	937.3

TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	906.7	911.1	914.3	918.9	924.4	930.9
23°	899.8	904.4	907.4	912.1	917.8	924.4
23.5°	892.6	897.4	900.4	905.1	910.9	917.7
24°	885.3	890.3	893.4	898.1	903.8	910.9
24.5°	877.9	883.0	886.2	890.9	896.7	903.9
25°	870.5	875.4	879.0	883.7	889.8	896.9
25.5°	862.9	867.9	871.4	876.2	882.4	889.6
26°	855.4	860.3	863.9	868.8	875.2	882.4
26.5°	847.5	852.7	856.2	861.2	867.6	875.1
27°	839.9	844.7	848.4	853.6	860.1	867.6
27.5°	831.8	836.8	840.6	845.7	852.2	859.8
28°	823.6	828.6	832.4	837.7	844.4	852.4
28.5°	815.3	820.5	824.3	829.8	836.4	844.1
29°	806.9	812.2	816.1	821.5	828.4	836.6
29.5°	798.4	804.1	807.9	813.3	820.4	828.3
30°	790.0	795.6	799.2	805.0	812.2	820.2
30.5°	781.6	787.2	790.6	796.5	803.7	812.0
31°	773.1	778.6	782.1	787.9	795.2	803.6
31.5°	764.2	769.8	773.5	779.4	786.6	795.2
32°	755.6	761.2	764.9	770.8	778.1	786.6
32.5°	746.7	752.4	755.9	761.9	769.4	777.8
33°	737.9	743.3	747.0	753.0	760.2	769.2
33.5°	728.8	734.1	738.0	744.1	751.7	760.3
34°	719.8	725.1	728.9	735.1	742.8	751.4
34.5°	710.7	715.9	719.8	725.8	733.5	742.2
35°	701.6	706.5	710.6	716.6	724.0	733.1
35.5°	692.8	697.2	701.3	707.7	715.5	724.1
36°	683.4	688.0	692.1	698.2	706.4	715.0
36.5°	673.9	678.6	682.9	688.8	697.0	705.8
37°	664.2	668.9	673.3	679.3	687.3	696.3
37.5°	654.4	659.3	663.5	670.0	678.1	686.9
38°	644.4	649.6	653.8	660.1	668.4	677.1
38.5°	634.4	639.8	644.2	650.6	658.7	667.4
39°	624.5	630.0	634.5	640.7	648.6	657.8
39.5°	614.0	619.7	624.6	631.0	639.0	647.5
40°	603.2	609.1	614.1	620.8	629.0	637.5
40.5°	591.8	598.3	603.3	610.6	618.9	627.4
41°	580.7	587.1	592.3	600.1	608.8	617.4
41.5°	569.2	575.7	580.9	589.0	598.5	607.3
42°	557.6	564.6	569.8	577.9	588.0	597.3
42.5°	546.2	553.0	558.4	566.9	577.1	586.7
43°	534.2	541.4	546.8	555.2	565.7	576.0
43.5°	522.6	529.5	535.0	543.7	554.4	564.8
44°	511.0	518.2	523.6	532.0	543.1	553.3
44.5°	499.4	506.5	512.1	520.7	531.8	542.2



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	487.7	494.9	500.6	508.9	520.2	530.6
45.5°	476.0	483.2	488.5	497.5	509.1	519.5
46°	464.3	471.9	477.4	486.1	497.4	508.1
46.5°	452.8	460.0	465.7	474.9	486.0	496.3
47°	441.3	448.6	454.3	463.3	474.4	485.0
47.5°	430.0	436.9	442.6	452.0	463.2	473.9
48°	418.6	425.6	431.4	440.4	451.7	462.5
48.5°	407.4	414.4	420.1	429.2	440.5	451.4
49°	396.3	403.4	409.1	418.1	429.4	440.0
49.5°	385.3	392.3	397.8	407.1	418.3	428.9
50°	374.4	380.9	387.0	395.7	407.0	417.6
50.5°	363.4	370.0	375.8	384.7	396.3	406.8
51°	352.7	359.3	365.0	373.9	385.2	395.6
51.5°	342.2	347.7	354.2	363.3	374.4	384.9
52°	331.8	337.6	343.8	352.6	363.9	374.2
52.5°	321.5	327.5	333.5	342.2	353.3	363.7
53°	311.1	317.5	323.2	331.9	343.1	353.0
53.5°	301.3	307.4	312.8	321.6	332.8	342.8
54°	291.2	297.4	302.5	311.3	322.6	332.6
54.5°	281.4	287.6	292.7	301.0	312.4	322.4
55°	271.6	277.8	283.1	291.2	302.2	312.2
55.5°	262.1	268.3	273.2	281.4	292.1	302.0
56°	252.7	258.8	263.8	271.7	282.3	291.8
56.5°	243.7	249.5	254.4	262.0	272.7	282.2
57°	234.7	240.4	245.2	252.7	263.1	272.5
57.5°	225.7	231.4	235.9	243.4	253.8	262.9
58°	217.3	222.8	227.1	234.3	244.5	253.7
58.5°	208.6	214.2	218.3	225.3	235.4	244.3
59°	200.2	205.7	209.7	216.6	226.4	235.1
59.5°	192.0	197.2	201.3	207.9	217.5	226.1
60°	183.9	189.1	192.9	199.5	208.8	217.2
60.5°	176.1	181.0	184.8	191.1	200.1	208.5
61°	168.4	172.9	176.8	182.9	191.7	199.9
61.5°	160.9	165.5	169.0	174.8	183.6	191.3
62°	153.5	157.8	161.3	167.1	175.4	183.0
62.5°	146.3	150.4	153.6	159.2	167.3	174.7
63°	139.1	143.2	146.3	151.7	159.5	166.7
63.5°	132.3	136.1	139.1	144.2	151.8	158.8
64°	125.6	129.1	132.1	137.1	144.3	150.9
64.5°	119.1	122.6	125.2	130.1	136.8	143.2
65°	112.8	116.0	118.5	123.3	129.8	135.9
65.5°	106.5	109.6	112.0	116.2	122.7	128.6
66°	100.5	103.2	105.6	109.9	115.8	121.3
66.5°	94.7	97.4	99.5	103.5	109.0	114.3
67°	89.5	91.6	93.6	97.4	102.7	107.5



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	84.3	85.9	87.8	91.5	96.4	100.8
68°	79.0	80.5	82.2	85.7	90.3	94.6
68.5°	73.8	75.4	77.0	80.2	84.5	88.2
69°	68.6	70.4	71.7	74.8	78.8	82.0
69.5°	63.9	65.6	66.9	69.6	73.2	75.8
70°	59.6	61.1	62.2	64.9	68.2	70.0
70.5°	55.3	56.7	57.8	60.2	63.2	64.4
71°	51.4	52.7	53.5	55.8	58.4	59.2
71.5°	47.5	48.8	49.7	51.7	53.9	54.2
72°	44.0	45.3	46.1	48.0	49.7	49.7
72.5°	40.7	41.9	42.6	44.3	45.8	45.4
73°	37.7	38.8	39.4	41.1	42.2	41.8
73.5°	34.9	36.0	36.7	38.2	39.0	38.5
74°	32.3	34.1	34.3	35.5	36.1	35.4
74.5°	30.1	32.3	32.6	33.7	34.2	33.6
75°	28.1	30.4	30.9	32.0	32.3	31.8
75.5°	26.6	28.6	29.1	30.2	30.4	30.1
76°	25.4	26.7	27.4	28.4	28.5	28.3
76.5°	24.2	25.4	26.1	26.7	26.6	26.5
77°	23.0	24.2	24.9	25.4	25.2	25.2
77.5°	21.8	23.0	23.6	24.1	24.0	23.9
78°	20.6	21.8	22.4	22.8	22.7	22.7
78.5°	19.5	20.6	21.2	21.5	21.4	21.4
79°	18.3	19.4	20.0	20.3	20.2	20.1
79.5°	17.2	18.2	18.8	19.1	18.9	18.9
80°	16.1	17.1	17.6	17.9	17.7	17.7
80.5°	15.0	16.0	16.5	16.8	16.5	16.5
81°	13.9	14.9	15.4	15.6	15.3	15.3
81.5°	12.9	13.8	14.2	14.5	14.2	14.1
82°	11.8	12.7	13.2	13.4	13.0	13.0
82.5°	10.8	11.6	12.1	12.3	11.9	11.9
83°	9.7	10.6	11.0	11.2	10.8	10.8
83.5°	8.8	9.6	10.0	10.2	9.7	9.7
84°	7.8	8.6	9.0	9.1	8.6	8.7
84.5°	6.8	7.5	7.9	8.1	7.6	7.7
85°	5.8	6.6	6.9	7.1	6.5	6.6
85.5°	4.8	5.6	6.0	6.1	5.6	5.6
86°	3.9	4.6	5.0	5.2	4.7	4.6
86.5°	3.0	3.7	4.0	4.3	3.9	3.8
87°	2.1	2.8	3.3	3.3	3.1	3.1
87.5°	1.3	2.0	2.5	2.6	2.4	2.4
88°	0.5	1.2	1.7	1.8	1.6	1.7
88.5°	0.1	0.3	0.9	1.0	0.9	0.9
89°	0.1	0.1	0.1	0.2	0.3	0.4
89.5°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.1	0.1	0.1	0.1	0.1	0.1
90.5°	0.1	0.1	0.1	0.1	0.1	0.1
91°	0.1	0.1	0.1	0.1	0.1	0.1
91.5°	0.1	0.1	0.1	0.1	0.1	0.1
92°	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1
93°	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.1	0.1	0.1	0.1	0.1	0.1
99.5°	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1	0.1
100.5°	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.1	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.1	0.1	0.1	0.1
103°	0.1	0.1	0.1	0.1	0.1	0.1
103.5°	0.1	0.1	0.1	0.1	0.1	0.1
104°	0.1	0.1	0.1	0.1	0.1	0.1
104.5°	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.1	0.1	0.1	0.1	0.1	0.1
105.5°	0.1	0.1	0.1	0.1	0.1	0.1
106°	0.1	0.1	0.1	0.1	0.1	0.1
106.5°	0.1	0.1	0.1	0.1	0.1	0.1
107°	0.1	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.2	0.1	0.1	0.1	0.1
108°	0.1	0.2	0.2	0.1	0.1	0.1
108.5°	0.1	0.2	0.2	0.2	0.2	0.2
109°	0.1	0.2	0.2	0.2	0.2	0.2
109.5°	0.1	0.2	0.2	0.2	0.2	0.2
110°	0.1	0.2	0.2	0.2	0.2	0.2
110.5°	0.1	0.2	0.2	0.2	0.2	0.2
111°	0.1	0.2	0.2	0.2	0.2	0.2
111.5°	0.1	0.2	0.2	0.2	0.2	0.2
112°	0.1	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.1	0.2	0.2	0.2	0.2	0.2
113°	0.1	0.2	0.2	0.2	0.2	0.2
113.5°	0.1	0.2	0.2	0.2	0.2	0.2
114°	0.1	0.2	0.2	0.2	0.2	0.2
114.5°	0.2	0.2	0.2	0.2	0.2	0.2
115°	0.2	0.2	0.2	0.2	0.2	0.2
115.5°	0.2	0.2	0.2	0.2	0.2	0.2
116°	0.2	0.2	0.2	0.2	0.2	0.2
116.5°	0.2	0.2	0.2	0.2	0.2	0.2
117°	0.2	0.2	0.2	0.2	0.2	0.2
117.5°	0.2	0.2	0.2	0.2	0.2	0.2
118°	0.2	0.2	0.2	0.2	0.2	0.2
118.5°	0.2	0.2	0.2	0.2	0.2	0.2
119°	0.2	0.2	0.2	0.2	0.2	0.2
119.5°	0.2	0.2	0.2	0.2	0.2	0.2
120°	0.2	0.2	0.2	0.2	0.2	0.2
120.5°	0.2	0.3	0.2	0.2	0.2	0.2
121°	0.2	0.3	0.3	0.3	0.3	0.3
121.5°	0.2	0.3	0.3	0.3	0.3	0.3
122°	0.2	0.3	0.3	0.3	0.3	0.3
122.5°	0.2	0.3	0.3	0.3	0.3	0.3
123°	0.2	0.3	0.3	0.3	0.3	0.3
123.5°	0.2	0.3	0.3	0.3	0.3	0.3
124°	0.2	0.3	0.3	0.3	0.3	0.3
124.5°	0.2	0.3	0.3	0.3	0.3	0.3
125°	0.3	0.3	0.3	0.3	0.3	0.3
125.5°	0.3	0.3	0.3	0.3	0.3	0.3
126°	0.3	0.3	0.3	0.3	0.3	0.3
126.5°	0.3	0.3	0.3	0.3	0.3	0.3
127°	0.3	0.3	0.3	0.3	0.3	0.3
127.5°	0.3	0.3	0.3	0.3	0.3	0.3
128°	0.3	0.3	0.3	0.3	0.3	0.3
128.5°	0.3	0.3	0.3	0.3	0.3	0.3
129°	0.3	0.3	0.3	0.3	0.3	0.3
129.5°	0.3	0.3	0.3	0.3	0.3	0.3
130°	0.3	0.3	0.3	0.3	0.3	0.3
130.5°	0.3	0.3	0.3	0.3	0.3	0.3
131°	0.3	0.4	0.3	0.3	0.3	0.4
131.5°	0.3	0.4	0.4	0.3	0.4	0.4
132°	0.3	0.4	0.4	0.4	0.4	0.4
132.5°	0.3	0.4	0.4	0.4	0.4	0.4
133°	0.3	0.4	0.4	0.4	0.4	0.4
133.5°	0.3	0.4	0.4	0.4	0.4	0.4
134°	0.4	0.4	0.4	0.4	0.4	0.4
134.5°	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.4	0.4	0.4	0.4	0.4	0.4
135.5°	0.4	0.4	0.4	0.4	0.4	0.4
136°	0.4	0.4	0.4	0.4	0.4	0.4
136.5°	0.4	0.4	0.4	0.4	0.4	0.4
137°	0.4	0.4	0.4	0.4	0.4	0.4
137.5°	0.4	0.4	0.4	0.4	0.4	0.4
138°	0.4	0.4	0.4	0.4	0.4	0.4
138.5°	0.4	0.4	0.4	0.4	0.4	0.4
139°	0.4	0.4	0.4	0.4	0.4	0.4
139.5°	0.4	0.4	0.4	0.4	0.4	0.4
140°	0.4	0.4	0.4	0.4	0.4	0.4
140.5°	0.4	0.4	0.4	0.4	0.4	0.4
141°	0.4	0.4	0.4	0.4	0.4	0.4
141.5°	0.4	0.4	0.4	0.4	0.4	0.4
142°	0.4	0.4	0.4	0.4	0.4	0.4
142.5°	0.5	0.4	0.4	0.4	0.4	0.4
143°	0.5	0.4	0.4	0.4	0.4	0.4
143.5°	0.5	0.4	0.4	0.4	0.4	0.4
144°	0.5	0.5	0.5	0.4	0.4	0.4
144.5°	0.5	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5	0.5	0.5
145.5°	0.5	0.5	0.5	0.5	0.5	0.5
146°	0.5	0.5	0.5	0.5	0.5	0.5
146.5°	0.5	0.5	0.5	0.5	0.5	0.5
147°	0.5	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5	0.5
148°	0.5	0.5	0.5	0.5	0.5	0.5
148.5°	0.5	0.5	0.5	0.5	0.5	0.5
149°	0.5	0.5	0.5	0.5	0.5	0.5
149.5°	0.5	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5	0.5
150.5°	0.5	0.5	0.5	0.5	0.5	0.5
151°	0.5	0.5	0.5	0.5	0.5	0.5
151.5°	0.6	0.5	0.5	0.5	0.5	0.5
152°	0.6	0.5	0.5	0.5	0.5	0.5
152.5°	0.6	0.5	0.5	0.5	0.5	0.5
153°	0.6	0.5	0.5	0.5	0.5	0.5
153.5°	0.6	0.5	0.5	0.5	0.5	0.5
154°	0.6	0.5	0.5	0.5	0.5	0.5
154.5°	0.6	0.5	0.5	0.5	0.5	0.5
155°	0.6	0.5	0.5	0.5	0.5	0.5
155.5°	0.6	0.5	0.5	0.5	0.5	0.5
156°	0.6	0.5	0.5	0.5	0.5	0.5
156.5°	0.6	0.5	0.5	0.5	0.5	0.5
157°	0.6	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P640144

CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.6	0.5	0.5	0.5	0.5	0.5
158°	0.6	0.5	0.5	0.5	0.5	0.5
158.5°	0.6	0.5	0.5	0.5	0.5	0.5
159°	0.6	0.5	0.5	0.5	0.5	0.5
159.5°	0.6	0.5	0.5	0.5	0.5	0.5
160°	0.6	0.5	0.5	0.5	0.5	0.5
160.5°	0.6	0.5	0.5	0.5	0.5	0.5
161°	0.6	0.5	0.5	0.5	0.5	0.5
161.5°	0.6	0.5	0.5	0.5	0.5	0.5
162°	0.6	0.5	0.5	0.5	0.5	0.5
162.5°	0.6	0.5	0.5	0.5	0.5	0.5
163°	0.6	0.5	0.5	0.5	0.5	0.5
163.5°	0.6	0.5	0.5	0.5	0.5	0.5
164°	0.6	0.5	0.5	0.5	0.5	0.5
164.5°	0.6	0.5	0.5	0.5	0.5	0.5
165°	0.6	0.5	0.5	0.5	0.5	0.5
165.5°	0.7	0.5	0.5	0.5	0.5	0.5
166°	0.7	0.5	0.5	0.5	0.5	0.5
166.5°	0.7	0.5	0.5	0.5	0.6	0.5
167°	0.7	0.5	0.5	0.6	0.6	0.6
167.5°	0.7	0.5	0.5	0.6	0.6	0.6
168°	0.7	0.5	0.5	0.6	0.6	0.6
168.5°	0.7	0.5	0.6	0.6	0.6	0.6
169°	0.7	0.5	0.6	0.6	0.6	0.6
169.5°	0.7	0.6	0.6	0.6	0.6	0.6
170°	0.7	0.6	0.6	0.6	0.6	0.6
170.5°	0.7	0.6	0.6	0.6	0.6	0.6
171°	0.7	0.6	0.6	0.6	0.6	0.6
171.5°	0.7	0.6	0.6	0.6	0.6	0.6
172°	0.7	0.6	0.6	0.6	0.6	0.6
172.5°	0.7	0.6	0.6	0.6	0.6	0.6
173°	0.7	0.6	0.6	0.6	0.6	0.6
173.5°	0.7	0.6	0.6	0.6	0.6	0.6
174°	0.7	0.6	0.6	0.6	0.6	0.6
174.5°	0.7	0.6	0.6	0.6	0.6	0.6
175°	0.7	0.6	0.6	0.6	0.6	0.6
175.5°	0.7	0.6	0.6	0.6	0.6	0.6
176°	0.7	0.6	0.6	0.6	0.6	0.6
176.5°	0.7	0.6	0.6	0.6	0.6	0.6
177°	0.7	0.6	0.6	0.6	0.6	0.6
177.5°	0.7	0.6	0.6	0.6	0.6	0.6
178°	0.7	0.6	0.6	0.6	0.6	0.6
178.5°	0.7	0.6	0.6	0.6	0.6	0.6
179°	0.7	0.7	0.7	0.7	0.6	0.6
179.5°	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P640144
CATALOG NUMBER: LCR621RD9FSE020-23W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.7	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)