

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: P640145

Luminaire Tested: LCR621RD9FSE020-23W-3500K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640145
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-3500K
Description: LCR 6
Light Source: 3500K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

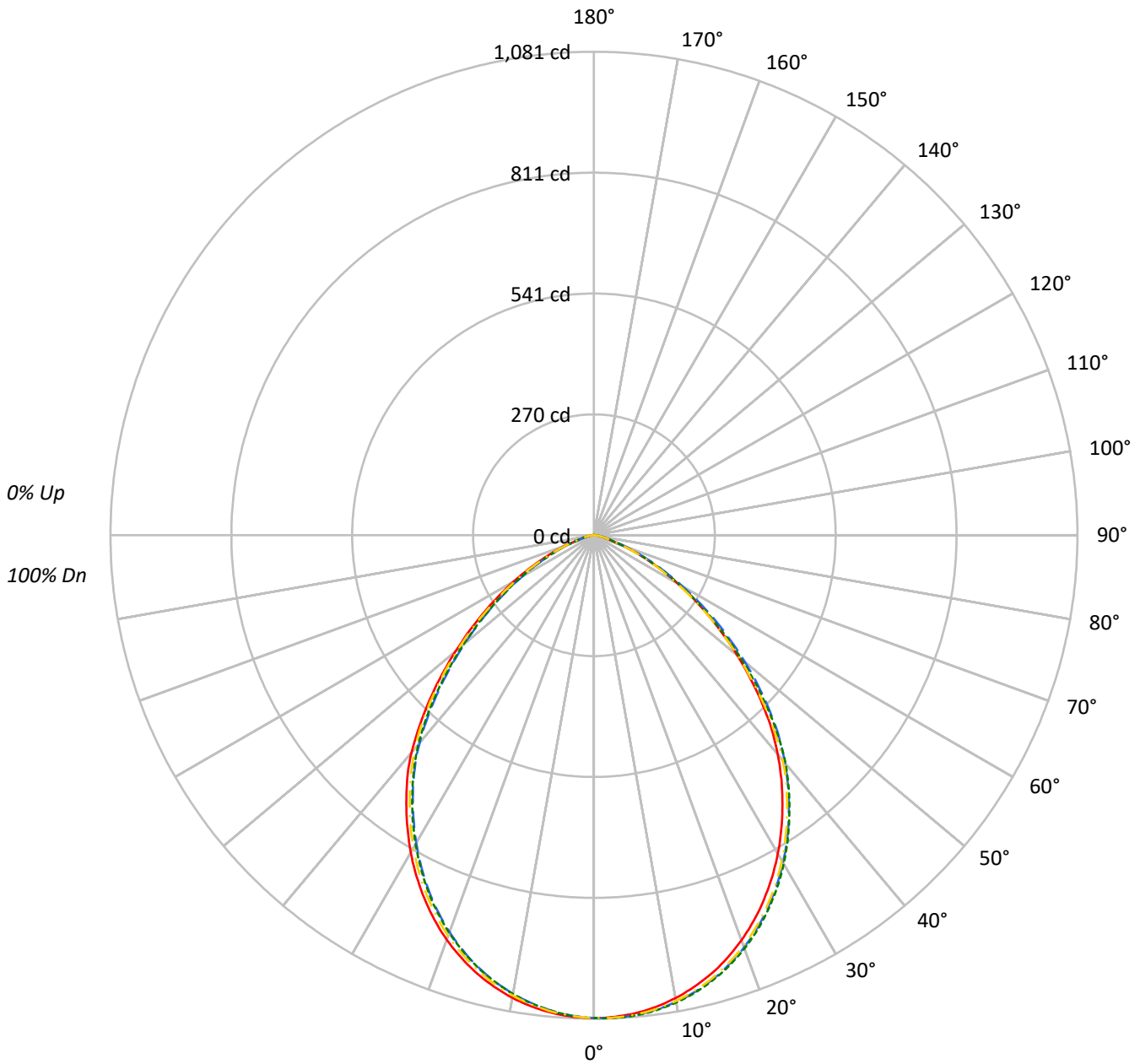
Lumens per Lamp: N/A
Luminaire Lumens: 2110.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.15 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



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Luminous Intensity Polar Plot



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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	59184	59184	59184	59184
5°	59019	59294	59003	58766
10°	58488	59050	58460	57976
15°	57594	58434	57515	56805
20°	56238	57376	56122	55194
25°	54378	55830	54233	53078
30°	52040	53711	51831	50482
35°	49182	50982	48954	47395
40°	45729	47682	45392	43689
45°	41237	42687	40198	38454
50°	35700	36673	34481	32562
55°	29915	30441	28587	26618
60°	23869	24176	22674	20777
65°	17667	17914	16746	15086
70°	11252	11733	10739	9809
75°	6757	6820	6100	6460
80°	5588	5840	5020	5398
85°	4151	5032	3397	4151

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 43253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	4.8
10°-20°	285.6	13.5
20°-30°	413.1	19.6
30°-40°	458.0	21.7
40°-50°	403.2	19.1
50°-60°	271.0	12.8
60°-70°	130.4	6.2
70°-80°	37.4	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°	800.4	37.9
0°-40°	1258.3	59.6
0°-60°	1932.5	91.6
0°-90°	2108.3	99.9
90°-120°	0.4	0.0
90°-150°	1.2	0.1
90°-180°	2.0	0.1
0°-180°	2110.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1080	1080	1080	1080	1080	
5°	1072	1078	1072	1068	1072	102
15°	1015	1030	1013	1001	1015	286
25°	899	923	897	878	899	413
35°	735	762	732	708	735	459
45°	532	551	518	496	532	409
55°	313	318	299	278	313	280
65°	136	138	129	116	136	137
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6
0.5°	1079.6	1079.9	1080.1	1080.2	1080.0	1080.0	1079.6	1079.6	1079.4	1079.3	1079.0
1°	1079.4	1079.7	1080.2	1080.6	1080.5	1080.2	1079.8	1079.5	1079.3	1078.7	1078.3
1.5°	1078.9	1079.5	1080.2	1080.7	1080.6	1080.2	1080.0	1079.4	1078.8	1078.1	1077.4
2°	1078.5	1079.1	1080.2	1080.7	1080.6	1080.1	1079.8	1079.0	1078.3	1077.5	1076.3
2.5°	1077.7	1078.7	1080.0	1080.6	1080.4	1080.0	1079.4	1078.7	1077.7	1076.7	1075.4
3°	1076.9	1078.1	1079.7	1080.3	1080.1	1079.5	1079.0	1078.1	1076.9	1075.8	1074.1
3.5°	1076.0	1077.3	1079.1	1079.8	1079.7	1078.9	1078.3	1077.4	1076.0	1074.8	1072.8
4°	1075.0	1076.3	1078.5	1079.3	1079.1	1078.3	1077.5	1076.3	1074.9	1073.6	1071.2
4.5°	1074.0	1075.3	1077.6	1078.7	1078.2	1077.7	1076.6	1075.1	1073.5	1072.0	1069.4
5°	1072.5	1074.1	1076.6	1077.8	1077.5	1076.9	1075.5	1073.9	1072.2	1070.4	1067.6
5.5°	1071.0	1072.8	1075.7	1077.0	1076.5	1076.0	1074.3	1072.6	1070.6	1068.6	1065.6
6°	1069.3	1071.3	1074.6	1075.9	1075.4	1074.8	1073.1	1071.2	1068.8	1066.7	1063.4
6.5°	1067.5	1069.7	1073.0	1074.7	1074.1	1073.4	1071.7	1069.6	1067.1	1064.7	1061.1
7°	1065.6	1067.9	1071.5	1073.2	1072.7	1071.9	1070.1	1067.8	1065.2	1062.4	1058.6
7.5°	1063.5	1065.8	1069.8	1071.7	1071.0	1070.2	1068.4	1065.9	1063.0	1060.1	1056.0
8°	1061.2	1063.7	1068.1	1070.0	1069.2	1068.4	1066.4	1063.7	1060.7	1057.7	1053.2
8.5°	1058.8	1061.4	1066.2	1068.1	1067.1	1066.3	1064.3	1061.4	1058.3	1055.1	1050.4
9°	1056.2	1059.0	1064.0	1066.1	1065.1	1064.3	1062.0	1059.2	1055.7	1052.4	1047.4
9.5°	1053.5	1056.6	1061.6	1063.8	1063.2	1062.0	1059.8	1056.7	1053.1	1049.4	1044.4
10°	1050.7	1053.9	1059.4	1061.7	1060.8	1059.9	1057.4	1054.0	1050.2	1046.4	1041.0
10.5°	1047.8	1051.0	1056.9	1059.2	1058.4	1057.5	1054.8	1051.1	1047.1	1043.3	1037.6
11°	1044.6	1048.1	1054.4	1056.6	1055.8	1054.7	1052.0	1048.1	1043.9	1039.9	1033.9
11.5°	1041.4	1044.9	1051.5	1053.8	1053.1	1052.0	1049.0	1044.9	1040.4	1036.7	1030.1
12°	1038.0	1041.7	1048.5	1051.0	1050.2	1049.0	1045.8	1041.8	1037.1	1033.1	1026.4
12.5°	1034.6	1038.4	1045.4	1048.0	1047.2	1045.8	1042.7	1038.4	1033.6	1029.5	1022.4
13°	1030.9	1034.9	1042.2	1044.8	1043.9	1042.6	1039.5	1035.0	1029.9	1025.6	1018.2
13.5°	1026.9	1031.0	1038.8	1041.6	1040.7	1039.2	1036.1	1031.2	1026.2	1021.4	1013.8
14°	1023.1	1027.2	1035.3	1038.3	1037.2	1035.9	1032.5	1027.4	1022.1	1017.1	1009.3
14.5°	1018.9	1023.1	1031.5	1034.7	1033.3	1032.2	1028.7	1023.6	1017.9	1012.8	1004.6
15°	1014.8	1019.0	1027.7	1031.0	1029.6	1028.5	1024.8	1019.5	1013.4	1008.2	999.7
15.5°	1010.4	1014.7	1023.8	1027.2	1025.8	1024.6	1020.6	1015.2	1008.9	1003.6	994.9
16°	1005.8	1010.4	1019.7	1023.0	1021.8	1020.4	1016.2	1010.7	1004.2	998.6	989.9
16.5°	1001.1	1005.7	1015.4	1018.7	1017.6	1015.9	1011.8	1006.1	999.5	993.8	984.6
17°	996.0	1001.1	1010.7	1014.4	1013.1	1011.6	1007.4	1001.4	994.7	988.6	979.2
17.5°	991.0	996.1	1006.0	1009.9	1008.6	1006.9	1002.6	996.5	989.6	983.4	973.5
18°	985.9	991.1	1001.4	1005.2	1003.7	1002.1	997.9	991.4	984.3	978.1	968.0
18.5°	980.6	986.1	996.5	1000.5	999.0	997.3	992.9	986.2	978.9	972.6	962.4
19°	975.2	980.8	991.4	995.6	994.0	992.4	987.9	981.0	973.5	966.8	956.4
19.5°	969.6	975.2	986.2	990.5	989.0	987.3	982.6	975.5	967.7	961.1	950.3
20°	964.0	969.7	980.9	985.4	983.5	982.1	977.2	969.9	962.0	955.2	944.2
20.5°	958.2	964.1	975.4	980.0	978.1	976.4	971.7	964.3	956.3	949.1	937.7
21°	952.0	958.2	969.9	974.3	972.5	970.7	966.1	958.4	950.3	942.7	931.2
21.5°	945.9	952.0	964.1	968.7	966.9	965.1	960.1	952.4	943.9	936.4	924.7
22°	939.5	945.9	958.2	963.0	961.2	959.4	954.1	946.1	937.5	929.9	918.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	933.1	939.5	952.1	957.1	955.3	953.3	948.1	939.6	931.0	923.3	911.0
23°	926.6	932.9	945.9	951.0	949.1	947.2	942.0	933.3	924.3	916.4	904.3
23.5°	919.9	926.5	939.6	944.6	942.9	941.0	935.3	926.9	917.6	909.6	897.0
24°	913.1	919.8	933.2	938.3	936.3	934.6	928.7	920.3	910.8	902.7	889.8
24.5°	906.0	913.0	926.4	931.7	929.6	927.8	922.1	913.4	903.9	895.7	882.3
25°	899.0	906.0	919.6	924.8	923.0	921.1	915.6	906.2	896.6	888.2	875.1
25.5°	891.7	899.0	912.8	918.0	916.1	914.2	908.5	899.4	889.4	880.7	867.4
26°	884.5	891.7	905.7	911.2	909.0	907.3	901.4	892.2	882.0	873.2	859.9
26.5°	877.2	884.3	898.6	904.3	902.3	900.0	894.1	884.7	874.5	865.8	852.0
27°	869.7	877.1	891.3	897.0	894.7	892.8	887.0	877.2	866.7	857.8	844.1
27.5°	861.9	869.3	884.0	889.8	887.2	885.5	879.2	869.6	859.2	850.1	836.0
28°	854.4	861.9	876.5	882.1	879.8	877.9	871.6	861.9	851.5	842.1	827.9
28.5°	846.1	854.1	869.0	874.5	872.0	870.1	864.0	854.2	843.4	834.2	819.8
29°	838.5	846.1	861.4	866.7	864.4	862.6	856.3	846.1	835.5	825.9	811.5
29.5°	830.3	838.0	853.3	859.1	856.4	854.6	848.2	838.2	827.2	817.9	802.9
30°	822.1	829.9	845.2	851.0	848.5	846.6	840.1	829.9	818.8	809.2	794.4
30.5°	813.9	821.8	837.3	843.1	840.3	838.3	831.7	821.7	810.5	800.8	785.7
31°	805.6	813.4	829.2	834.7	832.0	830.3	823.8	813.0	801.9	792.1	777.2
31.5°	797.1	805.0	820.6	826.5	823.4	821.7	815.1	804.7	793.4	783.6	768.3
32°	788.5	796.6	812.2	817.8	814.9	813.1	806.5	795.9	784.5	774.8	759.6
32.5°	779.7	787.9	803.8	809.3	806.4	804.3	797.9	787.4	776.1	766.0	750.8
33°	771.0	779.2	795.5	800.7	797.6	795.9	788.9	778.5	767.1	757.2	741.9
33.5°	762.1	770.3	786.7	791.8	788.5	786.8	780.2	769.7	758.4	748.5	733.0
34°	753.2	761.6	777.9	782.8	779.9	777.9	771.1	760.9	749.4	739.5	724.0
34.5°	744.0	752.5	768.7	774.0	770.7	768.6	762.1	751.9	740.6	730.2	715.0
35°	734.9	743.2	759.6	764.7	761.8	759.5	753.1	743.0	731.5	720.8	706.0
35.5°	725.8	733.9	750.5	755.5	752.5	750.6	744.0	733.8	722.3	711.5	697.0
36°	716.7	724.7	741.4	746.5	743.6	741.5	734.7	724.6	713.2	702.2	687.7
36.5°	707.5	715.5	732.2	737.4	734.1	732.0	725.4	715.4	704.0	694.2	677.8
37°	698.0	706.1	722.8	727.9	724.7	722.6	716.1	706.2	694.9	684.6	668.1
37.5°	688.5	696.2	713.6	718.3	715.3	713.2	706.8	697.0	685.4	675.0	658.1
38°	678.7	686.4	703.9	708.6	705.8	703.8	697.5	687.4	675.8	665.1	648.1
38.5°	669.0	676.7	694.1	698.9	696.4	694.4	687.8	677.5	666.2	655.2	638.2
39°	659.4	667.2	684.2	688.9	686.6	684.4	677.7	667.4	655.8	645.4	628.3
39.5°	649.0	657.2	674.2	679.2	676.6	674.0	667.1	656.5	645.5	635.3	617.5
40°	639.0	647.1	664.3	668.9	666.3	663.2	655.9	645.7	634.3	624.4	606.5
40.5°	628.9	637.3	654.2	658.9	655.5	652.1	644.7	634.3	623.3	613.2	595.4
41°	618.9	626.9	644.2	648.8	644.6	640.9	633.3	623.0	611.7	601.8	584.2
41.5°	608.7	617.0	634.1	638.2	633.3	629.4	621.8	611.6	600.3	590.4	572.4
42°	598.7	606.9	623.6	627.4	621.9	617.6	610.1	600.0	588.5	578.9	560.9
42.5°	588.1	596.0	612.9	616.1	610.4	605.6	598.6	588.2	577.0	567.4	549.3
43°	577.3	585.0	602.1	604.8	598.5	593.8	586.4	576.6	565.5	555.8	537.7
43.5°	566.2	573.9	590.9	593.3	586.5	581.8	574.8	564.8	553.8	544.0	525.8
44°	554.6	562.4	579.4	581.6	574.6	569.8	562.8	553.1	541.8	532.1	514.2
44.5°	543.5	551.5	567.7	569.8	562.6	557.6	550.9	541.2	530.1	520.6	502.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	531.9	540.0	556.6	557.9	550.6	545.6	538.9	529.3	518.5	509.0	490.8
45.5°	520.7	528.7	545.1	546.1	538.4	533.6	526.9	517.5	506.9	497.2	479.2
46°	509.3	517.1	533.7	534.4	526.3	521.5	515.0	505.7	495.3	485.6	467.6
46.5°	497.5	505.6	522.0	522.2	514.2	509.4	503.2	494.0	483.5	474.0	455.9
47°	486.2	494.2	510.2	510.2	502.1	497.0	491.2	482.3	471.9	462.5	444.3
47.5°	475.0	482.8	498.7	498.3	489.8	484.8	479.1	470.5	460.4	451.0	433.1
48°	463.6	471.6	487.1	486.4	477.7	472.8	467.2	459.1	449.0	439.5	421.6
48.5°	452.5	460.4	475.6	474.5	465.8	460.9	455.6	447.7	437.6	428.4	410.5
49°	441.1	448.9	464.0	462.9	453.8	449.1	443.8	436.1	426.3	417.3	399.3
49.5°	429.9	437.9	452.5	450.9	441.9	437.3	432.2	424.9	415.2	406.2	388.4
50°	418.6	426.4	441.0	439.3	430.0	425.4	420.5	413.4	404.3	395.2	377.3
50.5°	407.8	415.3	429.3	427.5	418.3	413.8	408.9	402.1	393.4	384.2	366.5
51°	396.6	404.0	418.0	416.0	406.6	402.2	397.5	391.2	382.1	373.4	355.8
51.5°	385.9	393.2	406.7	404.5	395.4	390.8	386.3	380.1	371.4	362.9	345.2
52°	375.1	382.4	395.4	393.4	384.0	379.6	374.9	369.3	361.0	352.3	334.5
52.5°	364.5	371.4	384.3	381.9	372.6	368.2	363.8	358.2	350.1	341.8	324.5
53°	353.8	360.3	373.5	370.7	361.5	357.2	352.8	347.5	339.7	331.4	314.2
53.5°	343.6	350.6	362.2	359.3	350.5	346.5	342.0	336.8	329.3	321.2	304.2
54°	333.4	340.1	351.8	346.8	339.6	335.4	331.4	326.3	319.3	311.0	294.2
54.5°	323.2	329.6	341.1	336.6	329.0	324.8	320.5	315.8	309.0	301.1	284.8
55°	313.0	319.1	330.4	326.4	318.5	314.2	310.3	306.0	299.1	291.3	274.7
55.5°	302.7	308.7	319.7	316.2	308.0	304.0	299.9	295.6	289.3	281.6	265.3
56°	292.5	298.2	309.0	306.0	297.6	293.4	289.7	285.7	279.6	271.9	256.0
56.5°	282.8	288.2	298.3	295.7	287.5	283.3	279.7	275.8	269.9	262.5	246.8
57°	273.1	278.2	288.1	285.6	277.4	273.3	269.6	266.2	260.5	253.2	237.7
57.5°	263.6	268.3	278.0	275.4	267.6	263.5	259.9	256.5	251.2	244.2	228.8
58°	254.3	258.8	268.0	265.5	257.7	253.8	250.4	247.3	242.1	235.0	220.1
58.5°	244.9	249.2	258.4	255.9	248.5	244.4	241.0	238.0	233.1	226.3	211.6
59°	235.6	239.8	248.5	246.3	238.9	235.0	231.6	228.8	224.2	217.6	203.0
59.5°	226.6	230.6	239.0	236.9	229.7	225.7	222.4	219.8	215.5	209.0	194.7
60°	217.7	221.3	229.4	227.6	220.5	216.5	213.4	210.8	206.8	200.6	186.7
60.5°	209.0	212.3	220.4	218.5	211.6	207.7	204.6	202.3	198.4	192.2	179.0
61°	200.4	203.4	211.1	209.4	202.7	199.1	196.2	193.9	190.1	184.2	171.1
61.5°	191.7	194.9	202.2	200.6	194.3	190.6	187.6	185.5	182.0	176.3	163.3
62°	183.4	186.1	193.4	192.1	185.7	182.3	179.2	177.2	174.0	168.6	155.9
62.5°	175.2	177.7	185.0	183.4	177.3	174.0	171.0	169.1	166.2	160.8	148.5
63°	167.1	169.5	176.6	175.2	168.9	165.9	163.1	161.2	158.3	153.3	141.6
63.5°	159.2	161.4	168.4	167.0	161.1	157.8	155.1	153.5	150.8	146.0	134.7
64°	151.2	153.4	160.0	159.0	153.2	150.2	147.6	146.0	143.4	139.0	127.8
64.5°	143.6	145.6	152.3	151.0	145.6	142.6	140.0	138.5	136.2	132.0	121.2
65°	136.2	138.0	144.6	143.4	138.1	135.1	133.0	131.3	129.1	125.1	115.0
65.5°	128.9	130.3	137.1	136.0	130.7	127.9	125.7	124.2	122.3	118.5	108.6
66°	121.6	123.3	129.6	128.6	123.4	120.9	118.8	117.4	115.5	112.1	102.6
66.5°	114.6	116.3	122.4	121.4	116.5	114.0	112.1	110.7	109.0	105.7	96.7
67°	107.7	109.2	115.5	114.5	109.7	107.4	105.6	104.1	102.5	99.7	91.2



TEST NUMBER: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	101.0	102.5	108.8	107.6	103.1	100.8	99.1	97.9	96.4	93.7	85.9
68°	94.8	96.2	102.1	101.1	96.6	94.6	93.2	91.9	90.5	88.3	80.7
68.5°	88.4	89.8	95.9	94.8	90.7	88.9	87.5	86.3	84.6	82.9	75.5
69°	82.2	83.8	89.7	88.7	84.9	83.2	81.8	80.7	78.7	77.5	70.2
69.5°	75.9	77.9	83.8	82.7	79.1	77.5	76.1	75.1	72.8	72.1	65.4
70°	70.2	72.4	77.9	76.9	73.2	71.8	70.5	69.5	67.0	66.7	61.0
70.5°	64.5	67.0	72.6	71.5	67.4	66.2	65.3	64.4	61.8	61.9	56.6
71°	59.3	61.8	67.3	66.3	62.3	61.4	60.5	59.5	56.8	57.3	52.5
71.5°	54.3	56.9	62.3	61.3	57.4	56.5	55.9	54.8	52.2	53.1	48.5
72°	49.8	52.3	57.6	56.5	53.0	52.0	51.6	50.3	47.9	48.9	45.0
72.5°	45.5	48.1	53.2	52.1	48.6	47.8	47.4	46.3	44.1	45.1	41.5
73°	41.9	44.2	49.0	48.0	44.6	43.9	43.6	42.5	40.4	41.6	38.3
73.5°	38.6	40.8	45.2	44.2	41.0	40.3	40.1	39.0	37.1	38.4	35.3
74°	35.5	37.6	41.6	40.7	37.8	37.1	36.9	35.9	34.1	35.3	32.7
74.5°	33.7	34.8	38.3	37.5	34.9	34.1	34.0	33.2	31.4	32.6	30.2
75°	31.9	32.9	35.4	34.5	32.2	31.6	31.4	30.5	28.8	30.0	28.1
75.5°	30.1	31.1	33.5	32.6	30.0	29.4	29.1	28.3	27.3	27.7	26.2
76°	28.4	29.2	31.6	30.7	28.4	27.7	27.1	26.2	25.6	25.6	24.9
76.5°	26.6	27.3	29.6	28.8	27.1	26.4	25.7	24.6	24.1	24.1	23.7
77°	25.3	25.5	27.7	26.9	25.8	25.2	24.5	23.4	22.8	23.0	22.5
77.5°	24.0	24.2	25.8	25.6	24.5	24.0	23.2	22.2	21.7	21.8	21.3
78°	22.7	22.9	24.6	24.4	23.3	22.8	22.0	21.0	20.5	20.6	20.1
78.5°	21.4	21.7	23.3	23.2	22.1	21.5	20.8	19.8	19.3	19.4	19.0
79°	20.2	20.5	22.0	21.9	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	19.2	18.5	17.5	17.0	17.2	16.7
80°	17.7	18.0	19.6	19.5	18.5	18.0	17.3	16.3	15.9	16.1	15.6
80.5°	16.5	16.8	18.4	18.4	17.4	16.9	16.2	15.2	14.8	14.9	14.5
81°	15.3	15.6	17.3	17.2	16.3	15.8	15.1	14.1	13.6	13.8	13.5
81.5°	14.2	14.5	16.1	16.1	15.2	14.7	14.1	13.0	12.6	12.7	12.4
82°	13.0	13.4	15.0	15.0	14.1	13.6	13.0	11.9	11.5	11.6	11.4
82.5°	12.0	12.2	13.9	13.9	13.0	12.6	12.0	10.9	10.5	10.6	10.3
83°	10.8	11.1	12.9	12.8	12.0	11.6	10.9	9.8	9.5	9.6	9.4
83.5°	9.7	10.0	11.8	11.8	11.0	10.5	9.9	8.9	8.4	8.6	8.4
84°	8.7	9.0	10.7	10.8	9.9	9.6	9.0	7.9	7.4	7.5	7.4
84.5°	7.7	8.0	9.7	9.7	9.0	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	6.0	5.4	5.5	5.5
85.5°	5.6	5.9	7.7	7.8	7.0	6.7	6.1	5.0	4.5	4.7	4.6
86°	4.7	5.0	6.7	6.8	6.0	5.7	5.1	4.2	3.7	3.9	3.7
86.5°	3.8	4.2	5.8	5.9	5.1	4.7	4.2	3.3	3.0	3.1	2.8
87°	3.1	3.3	4.9	4.9	4.2	3.9	3.4	2.6	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: P640145
 CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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	0.3	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	0.4	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: P640145
 CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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	0.5	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	0.6	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: P640145
 CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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	0.7	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	0.7
164.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7
165°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	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°	0.6	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	0.7	0.7	0.7	0.7	0.7
167.5°	0.6	0.6	0.5	0.5	0.7	0.7	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	0.6	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	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P640145
CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6
0.5°	1079.0	1079.2	1079.2	1079.3	1079.4	1079.6
1°	1078.2	1078.6	1078.6	1078.8	1079.2	1079.4
1.5°	1077.4	1077.8	1077.9	1078.1	1078.6	1078.9
2°	1076.3	1076.9	1076.9	1077.3	1078.0	1078.5
2.5°	1075.2	1075.9	1075.9	1076.2	1077.2	1077.7
3°	1073.8	1074.6	1074.6	1075.0	1076.1	1076.9
3.5°	1072.4	1073.1	1073.3	1073.7	1074.8	1076.0
4°	1070.7	1071.5	1071.9	1072.6	1073.5	1075.0
4.5°	1069.0	1069.7	1070.2	1071.0	1072.2	1074.0
5°	1067.1	1067.9	1068.5	1069.5	1070.8	1072.5
5.5°	1065.2	1065.8	1066.6	1067.7	1069.3	1071.0
6°	1062.8	1063.7	1064.6	1065.5	1067.6	1069.3
6.5°	1060.6	1061.4	1062.3	1063.5	1065.7	1067.5
7°	1057.8	1059.0	1060.0	1061.2	1063.5	1065.6
7.5°	1055.2	1056.5	1057.4	1059.0	1061.2	1063.5
8°	1052.4	1053.7	1054.8	1056.4	1058.6	1061.2
8.5°	1049.5	1050.9	1052.0	1053.7	1055.9	1058.8
9°	1046.5	1047.9	1049.0	1051.0	1053.4	1056.2
9.5°	1043.3	1044.8	1046.0	1048.0	1050.5	1053.5
10°	1040.0	1041.5	1042.9	1044.9	1047.6	1050.7
10.5°	1036.6	1038.0	1039.7	1041.7	1044.4	1047.8
11°	1032.8	1034.6	1036.2	1038.3	1041.3	1044.6
11.5°	1028.9	1030.9	1032.4	1034.8	1038.0	1041.4
12°	1024.9	1027.0	1028.6	1031.0	1034.4	1038.0
12.5°	1020.9	1023.0	1024.8	1027.2	1030.8	1034.6
13°	1016.8	1018.9	1020.7	1023.4	1026.9	1030.9
13.5°	1012.3	1014.6	1016.4	1019.3	1022.9	1026.9
14°	1007.7	1010.2	1012.1	1015.0	1018.8	1023.1
14.5°	1003.1	1005.5	1007.6	1010.6	1014.5	1018.9
15°	998.3	1000.9	1002.9	1006.1	1010.1	1014.8
15.5°	993.2	995.9	998.2	1001.3	1005.4	1010.4
16°	988.0	990.9	993.3	996.5	1000.8	1005.8
16.5°	982.7	986.0	988.2	991.5	995.8	1001.1
17°	977.2	980.7	982.9	986.4	990.9	996.0
17.5°	971.6	975.3	977.6	981.2	985.7	991.0
18°	966.1	969.5	972.0	975.7	980.4	985.9
18.5°	960.5	964.0	966.2	970.2	974.8	980.6
19°	954.5	958.0	960.8	964.7	969.3	975.2
19.5°	948.4	952.2	954.9	959.0	963.9	969.6
20°	942.3	946.1	949.0	953.1	958.0	964.0
20.5°	935.6	939.7	942.7	946.8	952.0	958.2
21°	929.1	933.2	936.2	940.6	945.9	952.0
21.5°	922.4	926.7	929.7	934.2	939.6	945.9
22°	915.8	920.0	923.1	927.6	933.2	939.5



TEST NUMBER: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	908.8	913.3	916.4	921.1	926.6	933.1
23°	901.9	906.5	909.5	914.2	920.0	926.6
23.5°	894.7	899.6	902.6	907.3	913.0	919.9
24°	887.4	892.5	895.5	900.2	906.0	913.1
24.5°	880.0	885.1	888.3	893.0	898.8	906.0
25°	872.5	877.5	881.0	885.8	891.9	899.0
25.5°	865.0	870.0	873.5	878.3	884.5	891.7
26°	857.4	862.3	866.0	870.9	877.2	884.5
26.5°	849.5	854.7	858.2	863.2	869.7	877.2
27°	841.9	846.7	850.4	855.6	862.2	869.7
27.5°	833.8	838.8	842.6	847.7	854.2	861.9
28°	825.5	830.6	834.4	839.7	846.4	854.4
28.5°	817.2	822.5	826.3	831.7	838.4	846.1
29°	808.8	814.2	818.0	823.5	830.4	838.5
29.5°	800.3	806.0	809.8	815.3	822.3	830.3
30°	791.9	797.5	801.1	806.9	814.1	822.1
30.5°	783.5	789.1	792.5	798.4	805.6	813.9
31°	774.9	780.4	784.0	789.7	797.1	805.6
31.5°	766.0	771.7	775.3	781.3	788.4	797.1
32°	757.4	763.0	766.7	772.6	780.0	788.5
32.5°	748.5	754.2	757.7	763.7	771.2	779.7
33°	739.7	745.0	748.8	754.8	762.0	771.0
33.5°	730.6	735.8	739.7	745.9	753.4	762.1
34°	721.5	726.8	730.6	736.9	744.5	753.2
34.5°	712.4	717.6	721.5	727.5	735.3	744.0
35°	703.3	708.2	712.2	718.3	725.8	734.9
35.5°	694.5	698.9	703.0	709.4	717.2	725.8
36°	685.0	689.6	693.8	699.9	708.0	716.7
36.5°	675.5	680.3	684.6	690.4	698.6	707.5
37°	665.8	670.5	674.9	680.9	688.9	698.0
37.5°	656.0	660.8	665.1	671.6	679.7	688.5
38°	646.0	651.1	655.3	661.6	670.0	678.7
38.5°	635.9	641.4	645.7	652.1	660.2	669.0
39°	626.0	631.5	636.0	642.3	650.1	659.4
39.5°	615.5	621.2	626.1	632.5	640.5	649.0
40°	604.6	610.5	615.6	622.3	630.5	639.0
40.5°	593.3	599.7	604.7	612.1	620.4	628.9
41°	582.0	588.5	593.8	601.5	610.2	618.9
41.5°	570.6	577.0	582.2	590.4	599.9	608.7
42°	559.0	565.9	571.2	579.3	589.4	598.7
42.5°	547.5	554.3	559.7	568.2	578.5	588.1
43°	535.5	542.7	548.1	556.5	567.1	577.3
43.5°	523.8	530.8	536.3	545.0	555.7	566.2
44°	512.2	519.4	524.9	533.3	544.4	554.6
44.5°	500.5	507.7	513.3	522.0	533.1	543.5

TEST NUMBER: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	488.9	496.0	501.8	510.1	521.4	531.9
45.5°	477.2	484.4	489.7	498.7	510.3	520.7
46°	465.4	473.0	478.6	487.3	498.6	509.3
46.5°	453.9	461.1	466.8	476.1	487.1	497.5
47°	442.4	449.7	455.3	464.4	475.5	486.2
47.5°	431.1	437.9	443.6	453.1	464.3	475.0
48°	419.6	426.6	432.4	441.4	452.8	463.6
48.5°	408.4	415.4	421.0	430.2	441.5	452.5
49°	397.3	404.3	410.1	419.1	430.4	441.1
49.5°	386.2	393.2	398.8	408.0	419.3	429.9
50°	375.3	381.8	387.9	396.7	407.9	418.6
50.5°	364.3	370.9	376.7	385.6	397.2	407.8
51°	353.5	360.1	365.8	374.7	386.1	396.6
51.5°	343.0	348.5	355.0	364.2	375.3	385.9
52°	332.6	338.4	344.7	353.4	364.8	375.1
52.5°	322.2	328.3	334.3	343.1	354.1	364.5
53°	311.9	318.2	323.9	332.7	343.9	353.8
53.5°	302.0	308.2	313.6	322.4	333.6	343.6
54°	291.9	298.1	303.2	312.1	323.4	333.4
54.5°	282.1	288.3	293.4	301.7	313.1	323.2
55°	272.3	278.5	283.7	291.9	302.9	313.0
55.5°	262.7	268.9	273.9	282.0	292.7	302.7
56°	253.3	259.4	264.4	272.4	283.0	292.5
56.5°	244.3	250.1	255.0	262.6	273.4	282.8
57°	235.2	240.9	245.8	253.3	263.8	273.1
57.5°	226.2	232.0	236.5	244.0	254.4	263.6
58°	217.8	223.3	227.7	234.9	245.1	254.3
58.5°	209.1	214.7	218.8	225.9	235.9	244.9
59°	200.7	206.2	210.2	217.2	226.9	235.6
59.5°	192.5	197.7	201.8	208.4	218.1	226.6
60°	184.3	189.5	193.3	199.9	209.3	217.7
60.5°	176.5	181.4	185.2	191.5	200.6	209.0
61°	168.8	173.3	177.2	183.3	192.2	200.4
61.5°	161.3	165.9	169.4	175.2	184.0	191.7
62°	153.9	158.2	161.7	167.5	175.8	183.4
62.5°	146.6	150.8	154.0	159.6	167.7	175.2
63°	139.4	143.6	146.6	152.0	159.9	167.1
63.5°	132.6	136.4	139.4	144.5	152.2	159.2
64°	125.9	129.4	132.4	137.4	144.7	151.2
64.5°	119.4	122.9	125.5	130.4	137.2	143.6
65°	113.0	116.3	118.8	123.6	130.1	136.2
65.5°	106.8	109.8	112.3	116.5	123.0	128.9
66°	100.8	103.5	105.9	110.1	116.1	121.6
66.5°	95.0	97.6	99.7	103.8	109.3	114.6
67°	89.7	91.8	93.8	97.6	102.9	107.7



TEST NUMBER: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	84.5	86.2	88.0	91.7	96.6	101.0
68°	79.2	80.7	82.4	85.9	90.6	94.8
68.5°	74.0	75.6	77.2	80.4	84.7	88.4
69°	68.7	70.6	71.9	75.0	79.0	82.2
69.5°	64.1	65.8	67.1	69.8	73.4	75.9
70°	59.7	61.2	62.4	65.0	68.3	70.2
70.5°	55.4	56.9	57.9	60.3	63.3	64.5
71°	51.5	52.8	53.7	55.9	58.6	59.3
71.5°	47.7	49.0	49.8	51.9	54.0	54.3
72°	44.1	45.4	46.2	48.1	49.8	49.8
72.5°	40.8	42.0	42.7	44.4	45.9	45.5
73°	37.7	38.9	39.5	41.2	42.3	41.9
73.5°	34.9	36.1	36.8	38.3	39.1	38.6
74°	32.4	34.2	34.4	35.6	36.2	35.5
74.5°	30.2	32.3	32.7	33.8	34.3	33.7
75°	28.2	30.5	30.9	32.0	32.4	31.9
75.5°	26.7	28.6	29.2	30.3	30.4	30.1
76°	25.5	26.8	27.5	28.5	28.5	28.4
76.5°	24.2	25.5	26.2	26.7	26.6	26.6
77°	23.1	24.3	24.9	25.4	25.3	25.3
77.5°	21.9	23.0	23.6	24.1	24.0	24.0
78°	20.7	21.8	22.4	22.9	22.7	22.7
78.5°	19.5	20.6	21.2	21.6	21.5	21.4
79°	18.4	19.5	20.0	20.4	20.2	20.2
79.5°	17.3	18.3	18.8	19.1	19.0	18.9
80°	16.1	17.1	17.7	17.9	17.7	17.7
80.5°	15.0	16.0	16.5	16.8	16.5	16.5
81°	14.0	14.9	15.4	15.7	15.4	15.3
81.5°	12.9	13.8	14.3	14.5	14.2	14.2
82°	11.8	12.7	13.2	13.4	13.0	13.0
82.5°	10.8	11.7	12.1	12.3	11.9	12.0
83°	9.8	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	8.7	8.7
84.5°	6.8	7.5	8.0	8.2	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	4.7	5.0	5.2	4.7	4.7
86.5°	3.0	3.7	4.0	4.3	3.9	3.8
87°	2.1	2.9	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: P640145
 CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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	0.4	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: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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	0.5	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: P640145

CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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°	0.7	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	0.6	0.5
166.5°	0.7	0.5	0.5	0.6	0.6	0.6
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	0.7	0.6
179.5°	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P640145
CATALOG NUMBER: LCR621RD9FSE020-23W-3500K

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)