

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: P640184

Luminaire Tested: LCR412RD9FSE020-14W-6500K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2208055C001)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: LCR412RD9FSE020-14W-6500K
Description: LCR 4
Light Source: 6500K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

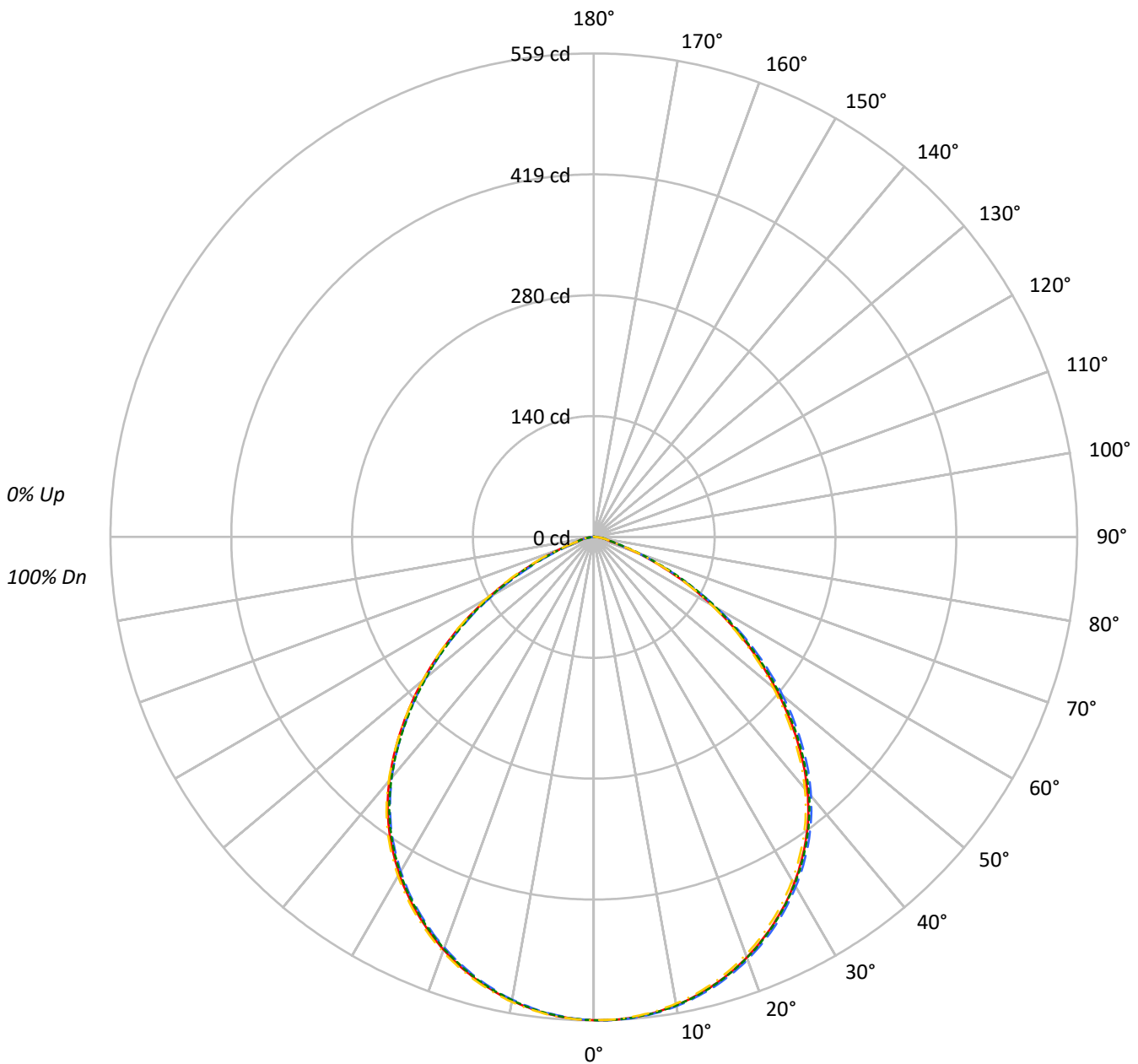
Lumens per Lamp: N/A
Luminaire Lumens: 1250.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.3
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P640184
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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		0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102		100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90		88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78		76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68		66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59		57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52		50
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47		45
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42		40
8	64	52	44	38	63	51	44	38	50	43	38	49	42	38	47	42	38		36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34		32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31		29

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	68926	68926	68926	68926
5°	69003	69003	68669	68644
10°	68849	68887	68223	68135
15°	68484	68548	67552	67437
20°	67915	67967	66655	66523
25°	67096	67177	65531	65313
30°	65958	66100	64092	63822
35°	64387	64613	62158	61797
40°	61911	62329	59222	58594
45°	58018	58541	54965	54093
50°	52962	53595	49527	48549
55°	46730	47525	42923	41977
60°	39051	40186	34882	34068
65°	29653	31229	25334	24633
70°	18717	20556	14858	14173
75°	10103	11009	9007	8721
80°	8950	9518	7742	7316
85°	7925	8774	5802	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 59466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	4.2
10°-20°	150.1	12.0
20°-30°	224.2	17.9
30°-40°	261.9	21.0
40°-50°	248.6	19.9
50°-60°	185.9	14.9
60°-70°	94.7	7.6
70°-80°	25.0	2.0
80°-90°	5.6	0.5
90°-100°	0.1	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.2	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	427.1	34.2
0°-40°	689.0	55.1
0°-60°	1123.6	89.9
0°-90°	1248.9	99.9
90°-120°	0.3	0.0
90°-150°	0.9	0.1
90°-180°	1.0	0.1
0°-180°	1250.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	559	559	559	559	559	
5°	557	557	555	554	557	53
15°	536	537	529	528	536	151
25°	493	494	482	480	493	227
35°	428	429	413	410	428	267
45°	333	336	315	310	333	256
55°	217	221	200	195	217	194
65°	102	107	87	84	102	101
75°	21	23	19	18	21	27
85°	6	6	4	4	6	6
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	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8
0.5°	558.8	558.9	559.0	559.0	558.9	558.8	558.8	558.7	558.6	558.6	558.5
1°	558.9	559.0	559.0	559.0	558.9	558.9	558.7	558.6	558.4	558.3	558.3
1.5°	558.9	559.0	559.2	559.1	559.0	558.9	558.7	558.3	558.2	557.9	557.9
2°	558.8	559.0	559.1	559.1	558.9	558.8	558.6	558.0	557.8	557.6	557.5
2.5°	558.7	559.0	559.0	559.0	558.7	558.6	558.3	557.7	557.4	557.0	557.0
3°	558.5	558.8	558.8	558.9	558.5	558.4	558.0	557.3	557.0	556.6	556.5
3.5°	558.2	558.6	558.7	558.6	558.3	558.1	557.7	556.9	556.5	556.1	555.8
4°	557.9	558.3	558.5	558.3	557.9	557.9	557.2	556.3	556.0	555.5	555.2
4.5°	557.6	558.0	558.2	558.1	557.7	557.3	556.8	555.7	555.4	554.7	554.6
5°	557.3	557.5	557.8	557.7	557.3	556.9	556.1	555.1	554.6	554.0	553.8
5.5°	556.8	557.1	557.5	557.4	556.8	556.4	555.6	554.3	554.0	553.2	553.1
6°	556.2	556.6	556.9	556.8	556.3	555.8	555.1	553.6	553.2	552.4	552.1
6.5°	555.6	556.1	556.4	556.4	555.7	555.2	554.4	552.9	552.2	551.6	551.3
7°	555.0	555.4	555.8	555.7	555.1	554.5	553.7	551.9	551.3	550.6	550.4
7.5°	554.2	554.7	555.1	555.0	554.4	553.7	552.8	551.1	550.3	549.5	549.3
8°	553.4	554.1	554.5	554.4	553.6	552.9	551.9	550.0	549.2	548.4	548.0
8.5°	552.5	553.3	553.7	553.6	552.8	552.1	550.9	548.9	548.2	547.3	546.9
9°	551.7	552.4	552.8	552.8	551.9	551.1	550.0	547.9	547.1	546.1	545.8
9.5°	550.7	551.5	551.9	551.9	550.9	550.2	549.0	546.7	545.8	545.0	544.5
10°	549.7	550.5	551.0	550.8	550.0	549.1	547.8	545.5	544.7	543.6	543.2
10.5°	548.6	549.4	550.0	549.9	548.8	547.9	546.8	544.2	543.2	542.3	541.8
11°	547.5	548.4	548.9	548.8	547.7	546.8	545.4	543.1	541.9	540.9	540.5
11.5°	546.3	547.2	547.7	547.6	546.6	545.6	544.2	541.5	540.5	539.4	539.0
12°	545.1	545.9	546.6	546.5	545.4	544.4	543.0	540.1	539.0	537.9	537.3
12.5°	543.7	544.7	545.3	545.2	544.0	543.1	541.5	538.7	537.4	536.3	535.6
13°	542.4	543.4	544.0	544.0	542.8	541.7	540.1	537.1	535.8	534.8	534.1
13.5°	541.1	542.1	542.6	542.6	541.4	540.3	538.6	535.5	534.2	532.9	532.2
14°	539.5	540.6	541.3	541.2	539.8	538.7	537.1	533.8	532.5	531.3	530.6
14.5°	538.0	539.1	539.9	539.8	538.4	537.2	535.5	532.2	530.7	529.6	528.7
15°	536.3	537.6	538.4	538.2	536.8	535.5	533.7	530.4	529.0	527.6	526.9
15.5°	534.7	535.9	536.8	536.6	535.1	533.8	532.1	528.5	527.1	525.7	525.0
16°	533.0	534.3	535.1	535.0	533.4	532.2	530.2	526.6	525.1	523.8	522.9
16.5°	531.3	532.6	533.4	533.3	531.7	530.4	528.5	524.7	523.2	521.7	520.9
17°	529.6	530.9	531.7	531.5	529.9	528.6	526.6	522.7	521.2	519.7	518.8
17.5°	527.7	529.1	529.9	529.7	528.1	526.6	524.6	520.5	519.1	517.6	516.7
18°	525.7	527.3	528.0	528.0	526.1	524.7	522.6	518.5	516.9	515.4	514.5
18.5°	523.7	525.4	526.1	525.9	524.2	522.6	520.6	516.4	514.7	513.1	512.2
19°	521.7	523.3	524.2	524.0	522.1	520.6	518.4	514.0	512.5	510.9	510.0
19.5°	519.6	521.2	522.1	521.9	520.1	518.5	516.3	511.9	510.3	508.5	507.6
20°	517.4	519.1	520.1	519.9	517.8	516.3	514.1	509.5	507.8	506.2	505.3
20.5°	515.2	517.0	517.9	517.7	515.7	514.1	511.9	507.2	505.5	503.7	502.8
21°	513.0	514.8	515.7	515.5	513.5	511.8	509.5	504.8	502.9	501.2	500.3
21.5°	510.6	512.5	513.4	513.3	511.3	509.5	507.2	502.4	500.5	498.7	497.8
22°	508.3	510.2	511.1	511.0	508.9	507.1	504.7	499.8	498.0	496.1	495.1

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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°	505.9	507.8	508.8	508.6	506.5	504.7	502.3	497.2	495.3	493.4	492.4
23°	503.2	505.3	506.4	506.3	504.1	502.1	499.8	494.7	492.6	490.8	489.7
23.5°	500.8	502.9	503.9	503.8	501.5	499.5	497.1	492.0	489.9	488.0	487.0
24°	498.3	500.3	501.4	501.3	498.9	497.0	494.5	489.3	487.2	485.2	484.1
24.5°	495.7	497.8	498.9	498.7	496.3	494.3	491.7	486.5	484.3	482.4	481.2
25°	493.0	495.1	496.2	496.1	493.6	491.6	489.0	483.6	481.5	479.4	478.4
25.5°	490.2	492.4	493.5	493.4	491.0	488.9	486.3	480.8	478.6	476.5	475.4
26°	487.4	489.7	490.8	490.6	488.2	486.0	483.3	477.8	475.7	473.5	472.4
26.5°	484.6	486.8	488.0	487.9	485.3	483.2	480.5	474.8	472.6	470.4	469.4
27°	481.8	484.1	485.2	485.0	482.5	480.2	477.5	471.9	469.5	467.4	466.3
27.5°	478.8	481.1	482.3	482.2	479.6	477.3	474.6	468.7	466.4	464.2	463.2
28°	475.8	478.1	479.3	479.2	476.5	474.4	471.5	465.6	463.2	461.1	459.9
28.5°	472.6	475.1	476.4	476.3	473.5	471.3	468.3	462.4	460.0	457.7	456.6
29°	469.6	472.0	473.3	473.2	470.4	468.2	465.3	459.2	456.7	454.5	453.3
29.5°	466.4	468.9	470.2	470.1	467.3	465.0	462.1	455.8	453.4	451.3	449.8
30°	463.1	465.7	467.1	467.0	464.1	461.7	458.9	452.5	450.0	447.7	446.4
30.5°	459.9	462.6	463.9	463.8	460.9	458.5	455.5	449.0	446.4	444.3	442.9
31°	456.5	459.2	460.7	460.6	457.6	455.2	452.0	445.6	442.9	440.7	439.3
31.5°	453.1	455.8	457.3	457.3	454.3	451.7	448.6	442.2	439.5	437.2	435.7
32°	449.5	452.5	454.0	453.9	450.8	448.2	445.2	438.5	435.9	433.5	432.1
32.5°	446.0	449.0	450.6	450.4	447.4	444.8	441.6	434.7	432.2	429.7	428.4
33°	442.5	445.5	447.0	447.0	443.8	441.3	438.0	431.1	428.5	426.0	424.6
33.5°	438.9	441.9	443.5	443.4	440.2	437.6	434.3	427.4	424.6	422.3	420.8
34°	435.2	438.3	439.9	439.8	436.4	434.0	430.6	423.5	420.7	418.4	416.9
34.5°	431.5	434.6	436.3	436.1	432.8	430.2	426.8	419.7	416.9	414.4	412.9
35°	427.6	430.9	432.5	432.4	429.1	426.4	423.0	415.7	412.8	410.4	408.9
35.5°	423.7	427.0	428.6	428.6	425.3	422.5	419.0	411.8	408.8	406.3	404.6
36°	419.8	423.1	424.8	424.7	421.5	418.6	415.2	407.6	404.6	402.1	400.4
36.5°	415.8	419.2	421.0	420.8	417.5	414.7	411.2	403.3	400.3	397.7	395.9
37°	411.6	415.2	417.0	416.9	413.5	410.5	407.0	399.1	396.0	393.3	391.6
37.5°	407.4	411.0	412.8	412.9	409.3	406.3	402.6	394.6	391.5	388.9	387.1
38°	403.0	406.7	408.7	408.6	405.0	402.0	398.2	390.0	386.9	384.2	382.5
38.5°	398.4	402.3	404.3	404.2	400.6	397.6	393.7	385.3	382.3	379.5	377.9
39°	393.9	397.8	399.8	400.1	396.3	393.2	389.3	380.8	377.6	374.9	373.0
39.5°	389.3	393.4	395.6	395.6	391.8	388.5	384.5	375.8	372.7	370.1	368.3
40°	384.5	388.6	391.0	391.1	387.1	383.8	379.7	370.8	367.8	365.0	363.3
40.5°	379.7	384.0	386.4	386.2	382.3	378.8	374.6	365.8	362.8	360.1	358.3
41°	374.5	379.0	381.7	381.6	377.4	373.9	369.7	360.8	357.7	355.1	353.2
41.5°	369.7	374.2	376.8	376.8	372.5	368.8	364.5	355.6	352.6	350.0	348.0
42°	364.5	369.2	371.9	371.9	367.4	363.7	359.4	350.2	347.4	344.7	342.7
42.5°	359.5	364.3	367.0	366.9	362.2	358.5	354.1	344.9	342.1	339.5	337.6
43°	354.1	359.1	361.8	361.9	357.1	353.1	348.7	339.5	336.8	334.2	332.2
43.5°	348.8	354.0	356.7	356.6	351.8	347.8	343.3	334.1	331.4	328.9	326.8
44°	343.5	348.7	351.5	351.4	346.4	342.3	337.9	328.7	325.9	323.5	321.5
44.5°	338.1	343.4	346.3	346.1	341.1	336.9	332.4	323.1	320.5	318.0	316.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	332.6	338.0	340.9	340.9	335.6	331.4	327.0	317.6	315.1	312.6	310.5
45.5°	327.1	332.7	335.6	335.5	330.1	325.9	321.4	312.0	309.3	307.1	305.0
46°	321.6	327.1	330.3	330.0	324.7	320.4	315.8	306.5	303.9	301.6	299.3
46.5°	316.0	321.7	324.9	324.5	319.1	314.7	310.3	300.8	298.2	295.8	293.7
47°	310.4	316.1	319.3	319.0	313.4	309.3	304.7	295.2	292.5	290.2	288.0
47.5°	304.7	310.6	313.7	313.5	307.6	303.5	299.1	289.6	286.9	284.5	282.3
48°	299.0	304.8	308.0	307.8	302.0	297.9	293.4	283.9	281.1	278.8	276.7
48.5°	293.3	299.1	302.4	302.1	296.5	292.3	287.7	278.2	275.5	273.2	270.8
49°	287.6	293.4	296.7	296.3	290.7	286.5	282.0	272.5	269.7	267.3	265.0
49.5°	281.8	287.8	291.0	290.7	284.9	280.8	276.4	266.7	263.9	261.4	259.3
50°	276.0	281.9	285.3	285.0	279.3	275.1	270.7	261.0	258.1	255.6	253.3
50.5°	270.2	276.2	279.4	279.1	273.4	269.4	264.8	255.2	252.2	249.7	247.4
51°	264.4	270.2	273.6	273.2	267.6	263.7	259.3	249.6	246.5	243.9	241.5
51.5°	258.6	264.3	267.8	267.4	261.8	257.9	253.5	243.8	240.6	237.9	235.6
52°	252.8	258.5	261.9	261.6	256.1	252.2	247.8	237.9	234.8	232.0	229.8
52.5°	246.8	252.5	255.8	255.6	250.1	246.4	242.1	232.2	228.9	226.1	223.7
53°	240.9	246.6	250.0	249.7	244.3	240.8	236.2	226.4	223.0	220.1	217.8
53.5°	235.0	240.5	244.0	243.8	238.6	234.9	230.5	220.7	217.1	214.2	211.8
54°	229.2	234.5	238.0	237.8	232.7	229.1	224.8	214.8	211.2	208.0	205.7
54.5°	223.2	228.5	231.9	231.9	226.7	223.4	219.1	209.1	205.5	202.2	199.9
55°	217.3	222.6	225.9	226.0	221.0	217.7	213.4	203.4	199.6	196.2	193.9
55.5°	211.4	216.5	219.9	219.9	215.1	211.9	207.6	197.6	193.6	190.2	187.8
56°	205.5	210.5	213.7	214.0	209.3	206.1	201.9	191.9	187.9	184.3	181.8
56.5°	199.6	204.5	207.7	208.0	203.5	200.4	196.3	186.1	182.0	178.2	175.8
57°	193.7	198.4	201.5	202.0	197.6	194.7	190.6	180.4	176.1	172.2	169.8
57.5°	187.6	192.2	195.4	195.9	191.7	189.0	184.9	174.7	170.4	166.3	164.0
58°	181.8	186.2	189.3	190.1	186.0	183.3	179.2	169.0	164.6	160.4	157.9
58.5°	176.0	180.3	183.3	184.2	180.3	177.6	173.7	163.5	158.6	154.7	152.0
59°	170.0	174.3	177.3	178.1	174.4	171.8	167.9	157.7	152.9	148.6	146.2
59.5°	164.1	168.1	171.1	172.0	168.7	166.3	162.4	151.9	147.1	142.7	140.1
60°	158.3	162.2	165.1	166.3	162.9	160.6	156.7	146.5	141.4	137.0	134.4
60.5°	152.5	156.2	159.0	160.4	157.2	155.0	151.1	140.9	135.7	131.4	128.6
61°	146.7	150.2	153.0	154.4	151.5	149.4	145.5	135.3	130.1	125.4	122.9
61.5°	141.0	144.3	147.0	148.6	145.7	143.8	140.2	129.8	124.5	119.7	117.1
62°	135.3	138.3	141.1	142.8	140.2	138.4	134.7	124.4	119.0	114.1	111.6
62.5°	129.5	132.6	135.1	137.0	134.6	132.9	129.2	118.9	113.4	108.5	105.8
63°	123.8	126.7	129.2	131.2	128.9	127.3	123.7	113.3	107.9	102.8	100.4
63.5°	118.2	121.0	123.4	125.4	123.3	121.8	118.4	108.1	102.4	97.4	94.9
64°	112.7	115.1	117.6	119.7	117.8	116.5	113.0	102.7	97.1	92.1	89.6
64.5°	107.1	109.5	111.9	114.1	112.4	111.2	107.7	97.4	91.9	87.0	84.6
65°	101.6	103.9	106.2	108.5	107.0	105.8	102.4	92.3	86.8	81.9	79.5
65.5°	96.3	98.4	100.7	103.1	101.6	100.6	97.3	87.2	81.8	76.9	74.5
66°	90.9	92.9	95.0	97.5	96.5	95.3	92.1	82.3	76.8	71.9	69.5
66.5°	85.7	87.5	89.7	92.1	91.0	90.3	87.0	77.3	71.8	66.9	64.4
67°	80.5	82.2	84.4	86.8	86.0	85.4	82.1	72.4	66.9	62.2	59.9



TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	75.4	77.1	79.1	81.7	81.1	80.4	77.2	67.4	62.0	57.6	55.4
68°	70.5	72.1	74.1	76.5	76.1	75.5	72.3	62.9	57.6	53.2	51.2
68.5°	65.7	67.1	69.1	71.5	71.1	70.6	67.4	58.4	53.2	49.1	47.1
69°	61.0	62.4	64.3	66.7	66.2	65.6	62.8	53.9	49.0	45.1	43.2
69.5°	56.4	57.8	59.6	61.9	61.4	61.1	58.3	49.6	45.0	41.3	39.6
70°	51.9	53.3	55.1	57.3	57.0	56.6	53.9	45.6	41.2	37.8	36.3
70.5°	47.7	49.1	50.8	53.0	52.6	52.2	49.5	41.8	37.7	34.7	33.2
71°	43.7	45.0	46.7	48.6	48.3	48.1	45.5	38.1	34.4	31.7	30.4
71.5°	39.8	41.2	42.8	44.6	44.2	44.0	41.6	34.6	31.4	29.0	27.9
72°	36.3	37.6	39.2	40.8	40.4	40.1	38.0	31.5	28.7	26.7	25.7
72.5°	32.9	34.3	35.7	37.3	36.7	36.5	34.6	28.7	26.3	24.6	23.7
73°	30.5	31.9	32.5	33.9	33.3	33.1	31.4	26.3	24.2	22.8	22.0
73.5°	28.2	29.4	30.1	31.5	30.2	30.1	28.6	24.1	22.4	21.2	20.6
74°	25.8	27.0	27.7	29.1	27.6	27.3	26.1	22.3	21.0	20.0	19.6
74.5°	23.5	24.5	25.4	26.7	25.2	25.0	23.9	20.9	19.8	19.1	18.7
75°	21.2	22.1	23.0	24.3	23.1	22.9	22.0	19.8	18.9	18.3	17.9
75.5°	19.9	20.6	21.4	22.0	21.4	21.3	20.6	18.9	18.1	17.4	17.0
76°	19.0	19.4	20.0	20.5	20.2	20.1	19.6	18.0	17.2	16.6	16.2
76.5°	18.1	18.5	19.0	19.4	19.2	19.1	18.7	17.1	16.4	15.8	15.4
77°	17.3	17.7	18.2	18.5	18.3	18.2	17.8	16.3	15.6	15.0	14.6
77.5°	16.5	16.9	17.4	17.7	17.5	17.4	17.0	15.5	14.8	14.2	13.9
78°	15.7	16.2	16.6	16.9	16.6	16.5	16.1	14.6	14.0	13.4	13.1
78.5°	14.9	15.4	15.8	16.1	15.8	15.7	15.3	13.8	13.2	12.7	12.3
79°	14.1	14.6	15.0	15.3	15.0	14.9	14.5	13.0	12.4	11.9	11.6
79.5°	13.4	13.8	14.3	14.5	14.2	14.1	13.7	12.3	11.7	11.2	10.8
80°	12.6	13.1	13.5	13.8	13.4	13.3	12.9	11.5	10.9	10.4	10.1
80.5°	11.8	12.3	12.7	13.0	12.7	12.5	12.1	10.8	10.2	9.7	9.4
81°	11.1	11.6	12.0	12.3	11.9	11.7	11.3	10.0	9.5	9.0	8.7
81.5°	10.4	10.9	11.3	11.5	11.1	11.0	10.6	9.3	8.8	8.3	8.0
82°	9.7	10.1	10.5	10.8	10.4	10.2	9.9	8.6	8.1	7.6	7.3
82.5°	9.0	9.4	9.8	10.0	9.7	9.5	9.1	7.9	7.4	7.0	6.7
83°	8.3	8.7	9.1	9.3	9.0	8.8	8.4	7.2	6.7	6.3	6.0
83.5°	7.6	8.1	8.4	8.6	8.3	8.1	7.7	6.6	6.1	5.6	5.3
84°	6.9	7.4	7.8	7.9	7.6	7.4	7.1	5.9	5.4	5.0	4.7
84.5°	6.3	6.7	7.1	7.3	6.9	6.7	6.4	5.2	4.7	4.3	4.0
85°	5.6	6.1	6.4	6.6	6.2	6.1	5.7	4.5	4.1	3.7	3.4
85.5°	5.0	5.4	5.8	5.9	5.5	5.4	5.0	3.9	3.5	3.1	2.8
86°	4.3	4.8	5.1	5.3	4.9	4.7	4.4	3.3	2.8	2.5	2.2
86.5°	3.7	4.1	4.5	4.6	4.3	4.1	3.7	2.7	2.3	1.9	1.6
87°	3.1	3.5	3.9	4.0	3.6	3.5	3.1	2.1	1.7	1.3	1.1
87.5°	2.5	2.9	3.3	3.4	3.0	2.9	2.5	1.5	1.1	0.7	0.5
88°	1.9	2.3	2.7	2.8	2.4	2.3	1.9	0.9	0.5	0.3	0.2
88.5°	1.3	1.7	2.1	2.2	1.8	1.7	1.3	0.4	0.2	0.1	0.1
89°	0.8	1.2	1.5	1.6	1.3	1.1	0.8	0.1	0.0	0.0	0.1
89.5°	0.3	0.6	0.9	1.0	0.7	0.6	0.3	0.0	0.0	0.0	0.1



TEST NUMBER: P640184
 CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.2	0.4	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.1
90.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
91°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
91.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
92°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
92.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
93°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	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°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
109.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
111.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
112°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P640184
 CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
138.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
139°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3
139.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3
140.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
141°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
141.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
157°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4



TEST NUMBER: P640184
 CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
158°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
158.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
159°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
159.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
160.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
161°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
161.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
179°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P640184
CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	558.8	558.8	558.8	558.8	558.8	558.8
0.5°	558.6	558.6	558.7	558.8	558.9	558.8
1°	558.2	558.4	558.5	558.6	558.8	558.9
1.5°	557.9	558.1	558.3	558.4	558.8	558.9
2°	557.5	557.7	557.9	558.1	558.6	558.8
2.5°	557.0	557.3	557.5	557.7	558.5	558.7
3°	556.6	556.9	557.0	557.5	558.2	558.5
3.5°	555.9	556.3	556.6	557.0	557.8	558.2
4°	555.3	555.7	556.0	556.5	557.5	557.9
4.5°	554.5	555.0	555.4	556.0	557.1	557.6
5°	553.8	554.4	554.8	555.3	556.6	557.3
5.5°	552.9	553.6	554.0	554.7	556.1	556.8
6°	552.0	552.7	553.3	553.9	555.4	556.2
6.5°	551.2	551.9	552.5	553.1	554.7	555.6
7°	550.3	550.9	551.5	552.3	554.0	555.0
7.5°	549.2	550.0	550.6	551.4	553.2	554.2
8°	548.1	548.9	549.5	550.4	552.4	553.4
8.5°	546.9	547.8	548.5	549.4	551.5	552.5
9°	545.7	546.6	547.3	548.4	550.4	551.7
9.5°	544.4	545.4	546.1	547.1	549.5	550.7
10°	543.1	544.0	544.9	546.0	548.5	549.7
10.5°	541.8	542.7	543.5	544.7	547.3	548.6
11°	540.3	541.3	542.2	543.3	546.2	547.5
11.5°	538.8	539.8	540.7	542.0	544.9	546.3
12°	537.2	538.4	539.2	540.5	543.6	545.1
12.5°	535.7	536.8	537.8	539.1	542.2	543.7
13°	534.1	535.2	536.1	537.5	540.8	542.4
13.5°	532.3	533.4	534.5	535.9	539.4	541.1
14°	530.5	531.6	532.8	534.2	537.7	539.5
14.5°	528.6	530.0	531.1	532.5	536.1	538.0
15°	526.8	528.1	529.2	530.8	534.5	536.3
15.5°	524.8	526.2	527.3	529.0	532.8	534.7
16°	522.8	524.2	525.4	527.1	531.1	533.0
16.5°	520.8	522.2	523.5	525.2	529.3	531.3
17°	518.6	520.2	521.5	523.1	527.4	529.6
17.5°	516.5	517.9	519.3	521.1	525.5	527.7
18°	514.3	515.8	517.3	519.0	523.5	525.7
18.5°	512.0	513.6	515.1	516.9	521.4	523.7
19°	509.8	511.3	512.8	514.7	519.3	521.7
19.5°	507.5	509.0	510.5	512.5	517.2	519.6
20°	505.1	506.8	508.2	510.2	514.9	517.4
20.5°	502.5	504.3	505.7	507.8	512.8	515.2
21°	500.1	501.7	503.3	505.4	510.5	513.0
21.5°	497.4	499.1	500.7	502.9	507.9	510.6
22°	494.8	496.5	498.1	500.4	505.6	508.3

TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	492.2	493.9	495.5	497.8	503.1	505.9
23°	489.5	491.3	492.8	495.1	500.6	503.2
23.5°	486.6	488.5	490.1	492.5	498.0	500.8
24°	483.8	485.7	487.2	489.7	495.4	498.3
24.5°	481.0	482.9	484.4	486.8	492.7	495.7
25°	478.1	479.9	481.5	484.2	490.0	493.0
25.5°	475.0	476.9	478.6	481.2	487.2	490.2
26°	472.1	473.9	475.8	478.3	484.4	487.4
26.5°	469.0	470.8	472.7	475.2	481.5	484.6
27°	465.8	467.8	469.6	472.2	478.5	481.8
27.5°	462.6	464.6	466.4	469.1	475.5	478.8
28°	459.4	461.5	463.1	465.9	472.4	475.8
28.5°	456.1	458.1	459.9	462.7	469.2	472.6
29°	452.8	454.8	456.6	459.5	466.2	469.6
29.5°	449.4	451.5	453.2	456.1	462.8	466.4
30°	445.9	448.1	449.8	452.7	459.6	463.1
30.5°	442.4	444.5	446.3	449.2	456.3	459.9
31°	438.8	440.9	442.7	445.6	452.9	456.5
31.5°	435.3	437.3	439.1	442.1	449.4	453.1
32°	431.6	433.7	435.5	438.5	445.8	449.5
32.5°	427.7	429.9	431.8	434.8	442.3	446.0
33°	424.0	426.2	428.0	431.1	438.7	442.5
33.5°	420.0	422.3	424.1	427.3	434.9	438.9
34°	416.2	418.4	420.2	423.4	431.2	435.2
34.5°	412.2	414.4	416.2	419.6	427.4	431.5
35°	408.0	410.4	412.2	415.4	423.5	427.6
35.5°	403.9	406.3	408.0	411.3	419.6	423.7
36°	399.6	401.9	403.7	407.0	415.5	419.8
36.5°	395.2	397.5	399.2	402.7	411.5	415.8
37°	390.7	393.0	394.7	398.4	407.1	411.6
37.5°	386.2	388.4	390.2	393.7	402.8	407.4
38°	381.4	383.7	385.5	389.0	398.2	403.0
38.5°	376.7	378.9	380.6	384.2	393.7	398.4
39°	371.8	374.0	375.7	379.2	389.0	393.9
39.5°	366.9	369.0	370.6	374.3	384.2	389.3
40°	361.7	363.9	365.4	368.9	379.2	384.5
40.5°	356.7	358.9	360.2	363.9	374.3	379.7
41°	351.6	353.5	355.0	358.5	369.0	374.5
41.5°	346.4	348.2	349.5	353.3	363.9	369.7
42°	341.1	343.0	344.1	348.0	358.6	364.5
42.5°	335.9	337.6	338.8	342.5	353.4	359.5
43°	330.4	332.2	333.3	337.1	347.9	354.1
43.5°	325.1	326.6	327.8	331.6	342.6	348.8
44°	319.6	321.1	322.3	326.1	337.2	343.5
44.5°	314.1	315.7	316.8	320.5	331.7	338.1

TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	308.5	310.1	311.1	315.0	326.2	332.6
45.5°	302.9	304.5	305.6	309.4	320.7	327.1
46°	297.4	298.9	300.0	303.8	315.1	321.6
46.5°	291.7	293.2	294.4	298.1	309.5	316.0
47°	285.9	287.5	288.6	292.4	303.8	310.4
47.5°	280.2	281.8	282.9	286.7	298.2	304.7
48°	274.6	276.1	277.3	281.1	292.5	299.0
48.5°	268.8	270.3	271.5	275.4	286.8	293.3
49°	263.0	264.7	265.8	269.8	281.0	287.6
49.5°	257.1	258.8	260.1	264.0	275.4	281.8
50°	251.3	253.0	254.3	258.1	269.6	276.0
50.5°	245.4	247.3	248.6	252.4	263.9	270.2
51°	239.6	241.5	242.7	246.7	258.1	264.4
51.5°	233.8	235.8	237.2	241.0	252.2	258.6
52°	227.8	229.8	231.4	235.3	246.4	252.8
52.5°	221.9	224.0	225.7	229.4	240.6	246.8
53°	216.0	218.4	219.8	223.7	234.8	240.9
53.5°	210.1	212.4	214.2	217.9	229.0	235.0
54°	204.1	206.5	208.3	212.2	223.2	229.2
54.5°	198.3	200.7	202.6	206.6	217.3	223.2
55°	192.4	195.2	196.9	200.8	211.6	217.3
55.5°	186.5	189.3	191.2	195.0	205.8	211.4
56°	180.6	183.6	185.5	189.4	200.0	205.5
56.5°	174.8	177.8	179.9	183.7	194.3	199.6
57°	168.8	172.1	174.1	177.8	188.5	193.7
57.5°	163.1	166.4	168.5	172.3	182.6	187.6
58°	157.5	160.8	162.9	166.7	176.8	181.8
58.5°	151.5	155.0	157.4	161.1	171.1	176.0
59°	145.7	149.3	151.7	155.3	165.5	170.0
59.5°	139.9	143.7	146.1	150.0	159.7	164.1
60°	134.2	138.1	140.6	144.3	154.0	158.3
60.5°	128.5	132.3	135.1	138.7	148.4	152.5
61°	122.9	126.9	129.6	133.2	142.8	146.7
61.5°	117.3	121.4	124.2	128.0	137.2	141.0
62°	111.7	116.0	118.7	122.4	131.6	135.3
62.5°	106.1	110.6	113.3	117.0	126.1	129.5
63°	100.8	105.2	108.0	111.7	120.6	123.8
63.5°	95.4	99.7	102.8	106.4	115.2	118.2
64°	90.1	94.5	97.5	101.1	109.7	112.7
64.5°	85.1	89.4	92.4	95.9	104.3	107.1
65°	80.1	84.4	87.3	90.8	99.1	101.6
65.5°	75.1	79.2	82.4	85.7	93.9	96.3
66°	70.0	74.2	77.4	80.7	88.7	90.9
66.5°	65.0	69.4	72.4	75.8	83.6	85.7
67°	60.4	64.7	67.7	70.9	78.6	80.5



TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	55.8	60.1	63.0	66.2	73.6	75.4
68°	51.6	55.5	58.6	61.6	68.8	70.5
68.5°	47.5	51.2	54.2	57.1	64.1	65.7
69°	43.5	47.1	49.8	52.7	59.4	61.0
69.5°	39.7	43.1	45.7	48.4	54.9	56.4
70°	36.3	39.3	41.8	44.3	50.5	51.9
70.5°	33.2	35.8	38.0	40.5	46.4	47.7
71°	30.3	32.4	34.5	36.8	42.4	43.7
71.5°	27.7	30.0	32.0	33.5	38.5	39.8
72°	25.4	27.6	29.5	31.0	35.0	36.3
72.5°	23.4	25.2	27.0	28.6	32.4	32.9
73°	21.8	22.8	24.4	26.2	29.9	30.5
73.5°	20.5	21.3	21.9	23.7	27.3	28.2
74°	19.4	20.1	20.6	21.3	24.7	25.8
74.5°	18.6	19.1	19.5	20.0	22.1	23.5
75°	17.7	18.3	18.6	19.1	20.6	21.2
75.5°	16.9	17.4	17.8	18.2	19.5	19.9
76°	16.1	16.6	16.9	17.4	18.6	19.0
76.5°	15.3	15.8	16.1	16.5	17.8	18.1
77°	14.5	15.0	15.3	15.7	16.9	17.3
77.5°	13.7	14.2	14.4	14.9	16.1	16.5
78°	12.9	13.4	13.7	14.1	15.3	15.7
78.5°	12.2	12.6	12.9	13.3	14.5	14.9
79°	11.4	11.8	12.1	12.5	13.7	14.1
79.5°	10.7	11.1	11.3	11.7	12.9	13.4
80°	10.0	10.3	10.6	11.0	12.2	12.6
80.5°	9.3	9.6	9.9	10.2	11.4	11.8
81°	8.6	8.9	9.2	9.5	10.7	11.1
81.5°	7.9	8.2	8.4	8.8	9.9	10.4
82°	7.2	7.5	7.7	8.1	9.2	9.7
82.5°	6.5	6.9	7.1	7.4	8.5	9.0
83°	5.8	6.2	6.4	6.8	7.8	8.3
83.5°	5.2	5.5	5.7	6.1	7.1	7.6
84°	4.5	4.9	5.1	5.5	6.5	6.9
84.5°	3.9	4.2	4.4	4.8	5.8	6.3
85°	3.3	3.6	3.8	4.2	5.2	5.6
85.5°	2.7	3.0	3.2	3.5	4.5	5.0
86°	2.1	2.4	2.6	2.9	3.9	4.3
86.5°	1.5	1.8	2.0	2.4	3.3	3.7
87°	0.9	1.3	1.5	1.8	2.7	3.1
87.5°	0.4	0.7	0.9	1.2	2.1	2.5
88°	0.1	0.3	0.4	0.6	1.6	1.9
88.5°	0.1	0.1	0.1	0.2	1.0	1.3
89°	0.1	0.1	0.1	0.1	0.4	0.8
89.5°	0.1	0.1	0.1	0.1	0.1	0.3



TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

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	0.0
91°	0.1	0.1	0.1	0.1	0.1	0.0
91.5°	0.1	0.1	0.1	0.1	0.1	0.0
92°	0.1	0.1	0.1	0.1	0.1	0.0
92.5°	0.1	0.1	0.1	0.1	0.1	0.0
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	0.1	0.1	0.1	0.1	0.1
108°	0.1	0.1	0.1	0.1	0.1	0.1
108.5°	0.1	0.1	0.1	0.1	0.1	0.1
109°	0.1	0.1	0.1	0.1	0.1	0.1
109.5°	0.1	0.1	0.1	0.1	0.1	0.1
110°	0.1	0.1	0.1	0.1	0.1	0.1
110.5°	0.1	0.1	0.1	0.1	0.1	0.1
111°	0.1	0.1	0.1	0.1	0.1	0.1
111.5°	0.1	0.1	0.1	0.1	0.1	0.1
112°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P640184
 CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.2	0.3	0.3	0.3	0.2	0.3
135.5°	0.2	0.3	0.3	0.3	0.3	0.3
136°	0.2	0.3	0.3	0.3	0.3	0.3
136.5°	0.2	0.3	0.3	0.3	0.3	0.3
137°	0.2	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3	0.3
138°	0.3	0.3	0.3	0.3	0.3	0.3
138.5°	0.3	0.3	0.3	0.3	0.3	0.3
139°	0.3	0.3	0.3	0.3	0.3	0.3
139.5°	0.3	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3	0.3
140.5°	0.3	0.3	0.3	0.3	0.3	0.3
141°	0.3	0.3	0.3	0.3	0.3	0.3
141.5°	0.3	0.3	0.3	0.3	0.3	0.3
142°	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3	0.3
143°	0.3	0.3	0.3	0.3	0.3	0.3
143.5°	0.3	0.3	0.3	0.3	0.3	0.3
144°	0.3	0.3	0.3	0.3	0.3	0.3
144.5°	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3	0.3
145.5°	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.3	0.3	0.3	0.3	0.3	0.3
146.5°	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3	0.3
148°	0.3	0.3	0.3	0.3	0.3	0.3
148.5°	0.3	0.3	0.3	0.3	0.3	0.3
149°	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.3	0.3	0.3	0.3	0.3	0.3
151°	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.4	0.3	0.3	0.3	0.3	0.3
157°	0.4	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640184

CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.4	0.3	0.3	0.3	0.3	0.3
158°	0.4	0.3	0.3	0.3	0.3	0.3
158.5°	0.4	0.3	0.3	0.3	0.3	0.3
159°	0.4	0.3	0.3	0.3	0.3	0.3
159.5°	0.4	0.3	0.3	0.3	0.3	0.3
160°	0.4	0.3	0.3	0.3	0.3	0.3
160.5°	0.4	0.3	0.3	0.3	0.3	0.3
161°	0.4	0.3	0.3	0.3	0.3	0.3
161.5°	0.4	0.3	0.3	0.3	0.3	0.3
162°	0.4	0.3	0.3	0.3	0.3	0.3
162.5°	0.4	0.3	0.3	0.3	0.3	0.3
163°	0.4	0.3	0.3	0.3	0.3	0.3
163.5°	0.4	0.3	0.3	0.3	0.3	0.3
164°	0.4	0.3	0.3	0.3	0.3	0.3
164.5°	0.4	0.3	0.3	0.3	0.3	0.3
165°	0.4	0.3	0.3	0.3	0.3	0.3
165.5°	0.4	0.3	0.3	0.3	0.3	0.3
166°	0.4	0.3	0.4	0.3	0.3	0.3
166.5°	0.4	0.3	0.4	0.3	0.3	0.3
167°	0.4	0.3	0.4	0.3	0.3	0.3
167.5°	0.4	0.3	0.4	0.4	0.3	0.3
168°	0.4	0.3	0.4	0.4	0.4	0.3
168.5°	0.4	0.3	0.4	0.4	0.4	0.3
169°	0.4	0.3	0.4	0.4	0.4	0.3
169.5°	0.4	0.3	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.4	0.4	0.4	0.4	0.4	0.4
177.5°	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.4	0.4	0.4	0.4	0.4
179°	0.4	0.4	0.4	0.4	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P640184
CATALOG NUMBER: LCR412RD9FSE020-14W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.4	0.4	0.4	0.4	0.4	0.4

(END OF REPORT)