

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: P640181

Luminaire Tested: LCR412RD9FSE020-14W-3500K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640181
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-3500K
Description: LCR 4
Light Source: 3500K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

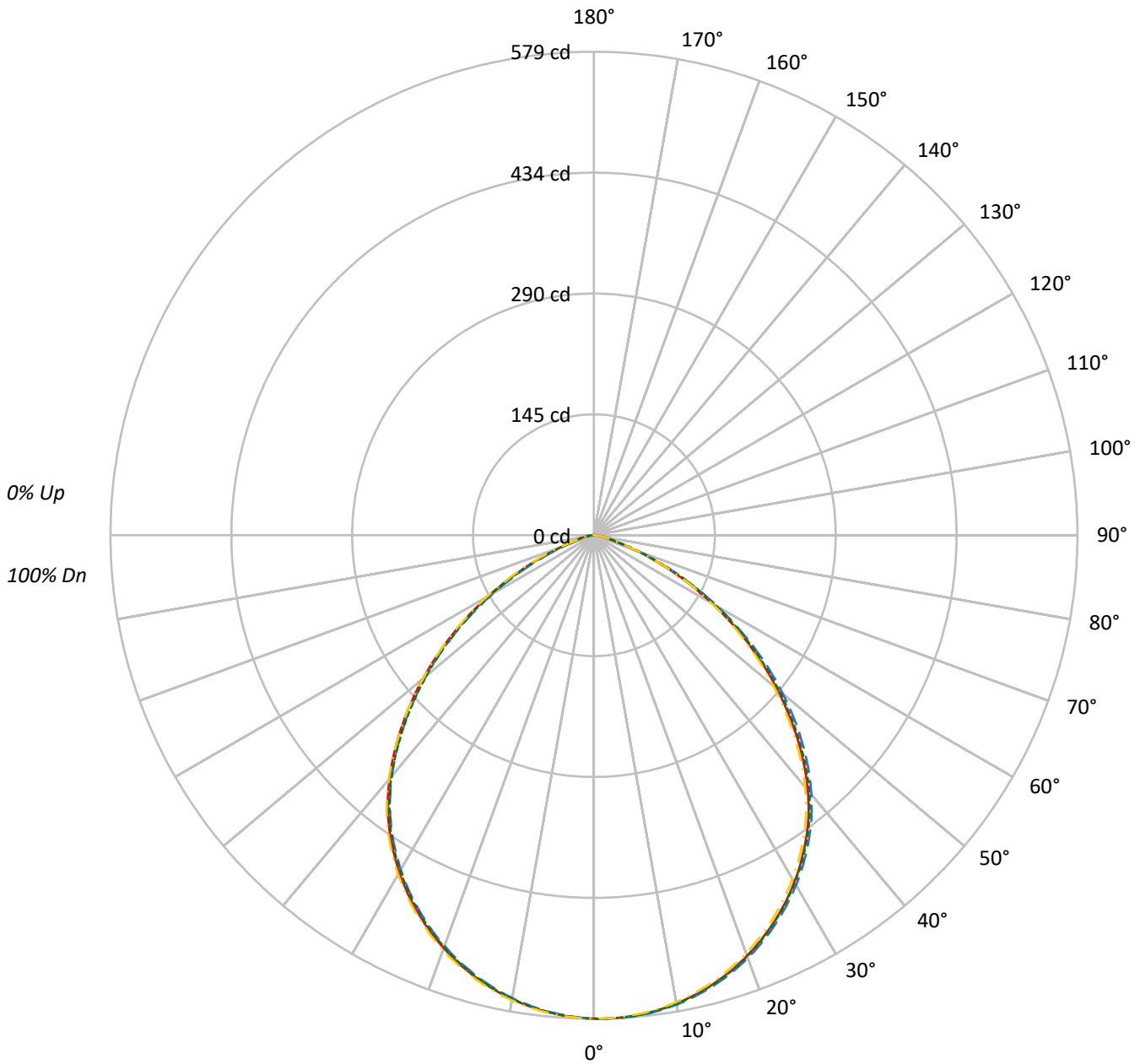
Lumens per Lamp: N/A
Luminaire Lumens: 1295.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.3
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14.4
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: P640181
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Luminous Intensity Polar Plot



0% Up
100% Dn

— 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°	71405	71405	71405	71405
5°	71479	71492	71145	71108
10°	71329	71367	70678	70590
15°	70948	71012	69978	69863
20°	70356	70422	69057	68912
25°	69505	69600	67885	67654
30°	68337	68479	66400	66115
35°	66706	66932	64402	64025
40°	64133	64568	61347	60703
45°	60111	60652	56936	56047
50°	54862	55514	51312	50295
55°	48407	49246	44472	43482
60°	40457	41641	36140	35302
65°	30733	32338	26238	25509
70°	19402	21278	15399	14714
75°	10485	11390	9341	9007
80°	9234	9873	8027	7600
85°	8208	9199	5944	5236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 61611 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	4.2
10°-20°	155.6	12.0
20°-30°	232.3	17.9
30°-40°	271.4	21.0
40°-50°	257.6	19.9
50°-60°	192.6	14.9
60°-70°	98.1	7.6
70°-80°	25.9	2.0
80°-90°	5.8	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°	442.5	34.2
0°-40°	713.9	55.1
0°-60°	1164.0	89.9
0°-90°	1293.9	99.9
90°-120°	0.3	0.0
90°-150°	0.9	0.1
90°-180°	1.0	0.1
0°-180°	1295.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	579	579	579	579	579	
5°	577	577	575	574	577	55
15°	556	556	548	547	556	157
25°	511	511	499	497	511	235
35°	443	444	428	425	443	276
45°	345	348	326	321	345	265
55°	225	229	207	202	225	201
65°	105	111	90	87	105	105
75°	22	24	20	19	22	28
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°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9
0.5°	579.0	579.0	579.1	579.1	579.0	578.9	578.9	578.8	578.7	578.7	578.6
1°	579.1	579.1	579.1	579.2	579.1	579.0	578.8	578.7	578.5	578.4	578.4
1.5°	579.1	579.2	579.3	579.2	579.1	579.0	578.8	578.4	578.2	578.0	578.0
2°	578.9	579.1	579.2	579.2	579.0	578.9	578.7	578.1	577.9	577.7	577.6
2.5°	578.8	579.1	579.1	579.1	578.9	578.7	578.4	577.8	577.5	577.1	577.1
3°	578.6	578.9	578.9	579.0	578.6	578.5	578.1	577.4	577.1	576.6	576.5
3.5°	578.3	578.8	578.8	578.7	578.4	578.2	577.8	577.0	576.5	576.1	575.8
4°	578.0	578.4	578.6	578.4	578.0	577.9	577.3	576.4	576.0	575.5	575.2
4.5°	577.7	578.0	578.3	578.2	577.8	577.4	576.8	575.7	575.4	574.7	574.5
5°	577.3	577.5	577.9	577.8	577.4	576.9	576.1	575.0	574.6	574.0	573.8
5.5°	576.8	577.2	577.6	577.4	576.9	576.4	575.6	574.3	573.9	573.2	573.1
6°	576.3	576.7	577.0	576.9	576.3	575.9	575.1	573.5	573.1	572.3	572.0
6.5°	575.6	576.1	576.5	576.4	575.7	575.2	574.4	572.8	572.1	571.4	571.1
7°	574.9	575.4	575.8	575.7	575.0	574.5	573.6	571.8	571.1	570.4	570.2
7.5°	574.2	574.7	575.1	575.0	574.3	573.6	572.7	570.9	570.1	569.3	569.0
8°	573.3	574.1	574.4	574.3	573.6	572.8	571.8	569.8	569.0	568.2	567.8
8.5°	572.4	573.2	573.6	573.5	572.7	571.9	570.8	568.7	567.9	567.0	566.6
9°	571.5	572.3	572.7	572.7	571.8	570.9	569.8	567.6	566.7	565.8	565.4
9.5°	570.5	571.3	571.8	571.7	570.8	570.0	568.8	566.3	565.5	564.6	564.1
10°	569.5	570.4	570.8	570.7	569.8	568.9	567.6	565.1	564.3	563.2	562.7
10.5°	568.4	569.2	569.8	569.7	568.6	567.7	566.4	563.8	562.8	561.9	561.4
11°	567.3	568.1	568.7	568.5	567.4	566.5	565.0	562.7	561.4	560.4	559.9
11.5°	566.9	566.9	567.4	567.3	566.3	565.3	563.8	561.0	560.0	558.9	558.4
12°	564.7	565.6	566.2	566.1	565.0	564.0	562.5	559.5	558.4	557.2	556.6
12.5°	563.3	564.3	564.9	564.8	563.6	562.6	560.9	558.1	556.7	555.6	554.9
13°	561.9	563.0	563.6	563.6	562.3	561.2	559.6	556.4	555.1	554.0	553.3
13.5°	560.5	561.6	562.2	562.1	560.9	559.7	558.0	554.7	553.4	552.1	551.4
14°	558.9	560.1	560.8	560.7	559.3	558.1	556.4	553.0	551.7	550.4	549.7
14.5°	557.4	558.5	559.3	559.2	557.8	556.5	554.7	551.3	549.8	548.6	547.8
15°	555.6	557.0	557.8	557.5	556.1	554.8	552.9	549.4	548.0	546.6	545.9
15.5°	553.9	555.2	556.1	556.0	554.4	553.0	551.3	547.6	546.1	544.6	543.9
16°	552.2	553.6	554.3	554.3	552.6	551.4	549.3	545.6	544.0	542.7	541.7
16.5°	550.4	551.8	552.6	552.4	550.9	549.5	547.5	543.6	542.0	540.5	539.6
17°	548.6	550.0	550.8	550.6	549.0	547.6	545.5	541.5	539.9	538.4	537.5
17.5°	546.7	548.1	549.0	548.8	547.1	545.6	543.4	539.3	537.8	536.2	535.3
18°	544.6	546.3	547.0	547.0	545.1	543.6	541.4	537.1	535.5	533.9	533.1
18.5°	542.5	544.3	545.1	544.8	543.0	541.5	539.3	534.9	533.3	531.5	530.7
19°	540.4	542.1	543.1	542.8	540.9	539.4	537.1	532.5	531.0	529.2	528.4
19.5°	538.4	539.9	540.9	540.7	538.8	537.1	534.9	530.4	528.6	526.8	525.9
20°	536.0	537.8	538.8	538.6	536.5	534.8	532.6	527.9	526.1	524.4	523.5
20.5°	533.7	535.6	536.5	536.4	534.2	532.6	530.3	525.5	523.7	521.8	520.9
21°	531.5	533.4	534.3	534.1	532.0	530.3	527.9	522.9	521.0	519.2	518.3
21.5°	529.0	530.9	531.9	531.8	529.7	527.8	525.4	520.5	518.5	516.6	515.7
22°	526.6	528.6	529.5	529.4	527.3	525.4	522.9	517.8	515.9	514.0	512.9



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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°	524.1	526.1	527.2	526.9	524.7	522.8	520.3	515.1	513.2	511.2	510.2
23°	521.4	523.5	524.6	524.5	522.2	520.2	517.8	512.5	510.4	508.4	507.4
23.5°	518.8	521.0	522.0	521.9	519.6	517.5	515.0	509.7	507.6	505.6	504.5
24°	516.2	518.3	519.5	519.4	516.8	514.9	512.3	506.9	504.7	502.7	501.5
24.5°	513.5	515.7	516.8	516.7	514.2	512.1	509.4	504.0	501.8	499.8	498.6
25°	510.7	513.0	514.1	514.0	511.4	509.3	506.6	501.0	498.8	496.7	495.7
25.5°	507.8	510.2	511.3	511.1	508.6	506.5	503.8	498.1	495.8	493.7	492.5
26°	505.0	507.3	508.4	508.3	505.8	503.5	500.7	495.0	492.8	490.6	489.4
26.5°	502.0	504.3	505.6	505.5	502.8	500.6	497.8	491.9	489.6	487.4	486.3
27°	499.1	501.5	502.6	502.5	499.9	497.5	494.7	488.9	486.5	484.2	483.1
27.5°	496.0	498.5	499.7	499.6	496.8	494.5	491.7	485.6	483.2	480.9	479.8
28°	492.9	495.3	496.6	496.5	493.7	491.4	488.5	482.3	479.9	477.7	476.4
28.5°	489.6	492.2	493.5	493.4	490.6	488.2	485.2	479.0	476.5	474.2	473.1
29°	486.5	489.0	490.4	490.2	487.3	485.0	482.0	475.7	473.1	470.9	469.6
29.5°	483.2	485.8	487.1	487.1	484.2	481.7	478.7	472.2	469.7	467.5	466.0
30°	479.8	482.5	483.9	483.8	480.8	478.3	475.4	468.8	466.2	463.8	462.5
30.5°	476.5	479.2	480.6	480.5	477.5	475.0	471.9	465.2	462.5	460.2	458.9
31°	472.9	475.7	477.3	477.2	474.1	471.6	468.3	461.6	458.9	456.6	455.1
31.5°	469.4	472.2	473.8	473.7	470.6	468.0	464.8	458.1	455.3	452.9	451.4
32°	465.7	468.8	470.3	470.2	467.0	464.4	461.2	454.3	451.5	449.1	447.6
32.5°	462.0	465.2	466.8	466.6	463.5	460.8	457.5	450.4	447.8	445.2	443.8
33°	458.4	461.6	463.1	463.1	459.8	457.1	453.8	446.6	443.9	441.3	439.9
33.5°	454.7	457.8	459.5	459.4	456.0	453.4	449.9	442.8	439.9	437.5	436.0
34°	450.9	454.0	455.7	455.6	452.1	449.6	446.1	438.7	435.9	433.5	431.9
34.5°	447.0	450.3	452.0	451.8	448.4	445.6	442.2	434.8	431.9	429.3	427.8
35°	443.0	446.4	448.0	448.0	444.5	441.8	438.3	430.7	427.7	425.2	423.6
35.5°	439.0	442.4	444.0	444.0	440.6	437.7	434.1	426.6	423.5	420.9	419.2
36°	434.9	438.4	440.1	440.0	436.6	433.6	430.1	422.3	419.2	416.5	414.8
36.5°	430.8	434.3	436.2	436.0	432.6	429.7	426.0	417.8	414.7	412.1	410.1
37°	426.4	430.1	432.0	431.9	428.4	425.3	421.7	413.4	410.2	407.4	405.7
37.5°	422.0	425.8	427.7	427.8	424.0	421.0	417.1	408.8	405.6	402.9	401.0
38°	417.5	421.3	423.4	423.3	419.6	416.5	412.6	404.1	400.9	398.1	396.2
38.5°	412.8	416.8	418.9	418.8	415.0	411.9	407.8	399.2	396.1	393.2	391.5
39°	408.0	412.2	414.2	414.5	410.5	407.4	403.3	394.5	391.2	388.4	386.4
39.5°	403.3	407.5	409.8	409.9	405.9	402.5	398.4	389.4	386.1	383.4	381.6
40°	398.3	402.6	405.1	405.2	401.0	397.6	393.4	384.2	381.0	378.2	376.4
40.5°	393.3	397.8	400.3	400.1	396.0	392.4	388.1	379.0	375.9	373.1	371.1
41°	388.0	392.7	395.4	395.3	391.0	387.4	383.0	373.8	370.5	367.9	365.9
41.5°	383.0	387.7	390.4	390.4	385.9	382.1	377.6	368.4	365.3	362.6	360.5
42°	377.7	382.5	385.3	385.3	380.7	376.7	372.3	362.8	359.9	357.1	355.1
42.5°	372.4	377.4	380.2	380.1	375.2	371.4	366.8	357.3	354.4	351.8	349.8
43°	366.9	372.0	374.8	374.9	370.0	365.8	361.2	351.7	348.9	346.3	344.2
43.5°	361.4	366.8	369.6	369.5	364.4	360.3	355.7	346.1	343.4	340.7	338.6
44°	355.8	361.2	364.1	364.1	358.9	354.6	350.1	340.5	337.7	335.1	333.1
44.5°	350.3	355.8	358.7	358.6	353.4	349.0	344.3	334.7	332.0	329.5	327.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	344.6	350.2	353.2	353.2	347.7	343.4	338.7	329.1	326.4	323.8	321.7
45.5°	338.8	344.7	347.7	347.6	342.0	337.6	333.0	323.2	320.4	318.1	316.0
46°	333.1	338.8	342.2	341.8	336.3	331.9	327.2	317.6	314.8	312.4	310.0
46.5°	327.4	333.3	336.5	336.2	330.5	326.0	321.5	311.6	308.9	306.5	304.3
47°	321.6	327.5	330.8	330.5	324.7	320.4	315.6	305.8	303.1	300.6	298.4
47.5°	315.6	321.7	325.0	324.8	318.7	314.5	309.8	300.0	297.3	294.8	292.5
48°	309.8	315.8	319.1	318.9	312.9	308.6	304.0	294.1	291.3	288.9	286.7
48.5°	303.8	309.9	313.3	313.0	307.1	302.9	298.0	288.2	285.4	283.0	280.5
49°	297.9	304.0	307.4	307.0	301.2	296.8	292.2	282.3	279.4	276.9	274.5
49.5°	291.9	298.1	301.5	301.2	295.2	290.9	286.3	276.3	273.4	270.8	268.6
50°	285.9	292.1	295.5	295.2	289.3	285.0	280.5	270.4	267.4	264.8	262.4
50.5°	279.9	286.1	289.5	289.1	283.2	279.1	274.3	264.4	261.2	258.7	256.3
51°	273.9	279.9	283.5	283.1	277.3	273.2	268.6	258.6	255.3	252.7	250.2
51.5°	267.9	273.8	277.4	277.1	271.2	267.2	262.6	252.6	249.3	246.4	244.1
52°	261.9	267.8	271.3	271.0	265.3	261.3	256.7	246.5	243.2	240.4	238.0
52.5°	255.7	261.6	265.0	264.8	259.1	255.3	250.8	240.5	237.1	234.2	231.8
53°	249.6	255.5	259.0	258.7	253.1	249.4	244.7	234.6	231.0	228.0	225.6
53.5°	243.4	249.2	252.8	252.6	247.2	243.3	238.8	228.6	224.9	221.9	219.4
54°	237.4	243.0	246.5	246.4	241.1	237.3	232.9	222.6	218.8	215.5	213.1
54.5°	231.2	236.7	240.3	240.3	234.9	231.4	227.0	216.7	212.9	209.5	207.1
55°	225.1	230.6	234.0	234.2	229.0	225.5	221.1	210.7	206.8	203.3	200.9
55.5°	219.0	224.3	227.8	227.8	222.8	219.5	215.1	204.7	200.5	197.1	194.5
56°	212.9	218.1	221.4	221.7	216.8	213.5	209.2	198.8	194.6	190.9	188.4
56.5°	206.8	211.8	215.2	215.5	210.8	207.6	203.4	192.8	188.5	184.6	182.1
57°	200.7	205.5	208.8	209.3	204.7	201.7	197.5	186.8	182.5	178.4	175.9
57.5°	194.4	199.1	202.4	203.0	198.6	195.8	191.6	181.0	176.5	172.3	169.9
58°	188.3	192.9	196.2	196.9	192.7	189.9	185.6	175.1	170.5	166.2	163.6
58.5°	182.3	186.8	189.9	190.8	186.8	184.0	179.9	169.3	164.3	160.2	157.4
59°	176.2	180.6	183.7	184.5	180.7	178.0	174.0	163.4	158.4	153.9	151.4
59.5°	170.0	174.2	177.3	178.2	174.7	172.2	168.3	157.4	152.4	147.8	145.1
60°	164.0	168.0	171.0	172.3	168.8	166.4	162.4	151.8	146.5	141.9	139.2
60.5°	158.0	161.9	164.7	166.2	162.8	160.6	156.6	146.0	140.6	136.1	133.2
61°	152.0	155.6	158.5	159.9	157.0	154.8	150.8	140.1	134.8	129.9	127.3
61.5°	146.1	149.5	152.3	153.9	151.0	149.0	145.2	134.5	129.0	124.0	121.4
62°	140.2	143.3	146.2	147.9	145.2	143.4	139.5	128.8	123.2	118.2	115.6
62.5°	134.2	137.4	140.0	141.9	139.4	137.7	133.9	123.1	117.4	112.4	109.6
63°	128.3	131.3	133.9	136.0	133.5	131.9	128.2	117.4	111.7	106.5	104.0
63.5°	122.5	125.3	127.8	129.9	127.8	126.2	122.6	111.9	106.1	100.9	98.3
64°	116.7	119.3	121.8	124.0	122.1	120.6	117.0	106.4	100.6	95.5	92.8
64.5°	110.9	113.4	116.0	118.2	116.4	115.2	111.6	100.9	95.2	90.1	87.6
65°	105.3	107.6	110.0	112.4	110.8	109.6	106.1	95.6	89.9	84.9	82.4
65.5°	99.7	102.0	104.3	106.8	105.3	104.2	100.8	90.3	84.8	79.7	77.2
66°	94.2	96.3	98.4	101.0	100.0	98.8	95.4	85.2	79.6	74.5	72.0
66.5°	88.8	90.7	93.0	95.4	94.3	93.5	90.1	80.1	74.4	69.3	66.8
67°	83.4	85.2	87.4	90.0	89.1	88.4	85.1	75.0	69.3	64.4	62.0



TEST NUMBER: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	78.1	79.9	82.0	84.6	84.0	83.3	80.0	69.8	64.3	59.6	57.4
68°	73.0	74.7	76.8	79.2	78.8	78.2	74.9	65.1	59.7	55.2	53.0
68.5°	68.1	69.5	71.6	74.1	73.7	73.1	69.8	60.5	55.1	50.9	48.8
69°	63.2	64.6	66.6	69.1	68.5	68.0	65.1	55.8	50.8	46.7	44.8
69.5°	58.4	59.9	61.8	64.1	63.6	63.3	60.4	51.4	46.6	42.8	41.0
70°	53.8	55.3	57.0	59.4	59.0	58.6	55.8	47.2	42.7	39.2	37.6
70.5°	49.4	50.9	52.7	54.9	54.5	54.1	51.3	43.3	39.0	35.9	34.4
71°	45.3	46.6	48.4	50.4	50.0	49.8	47.2	39.5	35.6	32.9	31.5
71.5°	41.3	42.7	44.4	46.2	45.8	45.6	43.1	35.9	32.5	30.1	28.9
72°	37.6	39.0	40.6	42.3	41.8	41.6	39.4	32.7	29.7	27.6	26.6
72.5°	34.1	35.6	37.0	38.6	38.0	37.8	35.8	29.8	27.2	25.5	24.5
73°	31.6	33.0	33.6	35.1	34.5	34.3	32.6	27.2	25.1	23.6	22.8
73.5°	29.2	30.5	31.2	32.7	31.3	31.2	29.6	25.0	23.2	22.0	21.4
74°	26.8	27.9	28.7	30.2	28.5	28.3	27.0	23.1	21.7	20.8	20.3
74.5°	24.3	25.4	26.3	27.7	26.1	25.9	24.7	21.6	20.6	19.8	19.3
75°	22.0	22.9	23.9	25.2	23.9	23.8	22.8	20.5	19.6	18.9	18.5
75.5°	20.6	21.3	22.2	22.8	22.2	22.1	21.4	19.5	18.7	18.1	17.7
76°	19.6	20.1	20.7	21.2	20.9	20.8	20.3	18.6	17.9	17.2	16.8
76.5°	18.8	19.2	19.7	20.1	19.8	19.8	19.4	17.7	17.0	16.4	16.0
77°	17.9	18.3	18.8	19.2	19.0	18.9	18.5	16.9	16.2	15.5	15.2
77.5°	17.1	17.5	18.0	18.4	18.1	18.0	17.6	16.0	15.3	14.7	14.4
78°	16.3	16.7	17.2	17.5	17.2	17.1	16.7	15.2	14.5	13.9	13.5
78.5°	15.5	15.9	16.4	16.7	16.4	16.3	15.8	14.3	13.7	13.1	12.8
79°	14.6	15.1	15.6	15.9	15.6	15.4	15.0	13.5	12.9	12.3	12.0
79.5°	13.9	14.3	14.8	15.1	14.7	14.6	14.2	12.7	12.1	11.6	11.2
80°	13.0	13.5	14.0	14.2	13.9	13.8	13.3	11.9	11.3	10.8	10.5
80.5°	12.3	12.8	13.2	13.5	13.1	13.0	12.5	11.2	10.6	10.1	9.7
81°	11.5	12.0	12.5	12.7	12.3	12.2	11.7	10.4	9.8	9.3	9.0
81.5°	10.8	11.2	11.7	11.9	11.5	11.4	11.0	9.7	9.1	8.6	8.3
82°	10.0	10.5	10.9	11.1	10.8	10.6	10.2	8.9	8.4	7.9	7.6
82.5°	9.3	9.8	10.2	10.4	10.0	9.9	9.5	8.2	7.7	7.2	6.9
83°	8.6	9.1	9.5	9.7	9.3	9.1	8.7	7.5	7.0	6.5	6.2
83.5°	7.9	8.3	8.8	8.9	8.6	8.4	8.0	6.8	6.3	5.8	5.5
84°	7.2	7.6	8.0	8.2	7.9	7.7	7.3	6.1	5.6	5.1	4.8
84.5°	6.5	7.0	7.3	7.5	7.2	7.0	6.6	5.4	4.9	4.5	4.2
85°	5.8	6.3	6.6	6.8	6.5	6.3	5.9	4.7	4.2	3.8	3.5
85.5°	5.1	5.6	6.0	6.1	5.7	5.6	5.2	4.0	3.6	3.2	2.9
86°	4.5	4.9	5.3	5.5	5.1	4.9	4.5	3.4	3.0	2.6	2.3
86.5°	3.9	4.3	4.7	4.8	4.4	4.2	3.9	2.8	2.3	2.0	1.7
87°	3.2	3.7	4.0	4.1	3.8	3.6	3.2	2.2	1.7	1.3	1.1
87.5°	2.6	3.0	3.4	3.5	3.1	3.0	2.6	1.6	1.1	0.8	0.6
88°	2.0	2.4	2.8	2.9	2.5	2.3	2.0	1.0	0.6	0.3	0.2
88.5°	1.4	1.8	2.1	2.3	1.9	1.7	1.4	0.4	0.2	0.1	0.1
89°	0.8	1.2	1.5	1.7	1.3	1.1	0.8	0.1	0.0	0.1	0.1
89.5°	0.3	0.6	0.9	1.1	0.7	0.6	0.3	0.0	0.0	0.1	0.1



TEST NUMBER: P640181
 CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

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	0.1	0.1
90.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1
91°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	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°	0.1	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°	0.1	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: P640181
 CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

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°	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
117.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
118°	0.2	0.2	0.2	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	0.2
121.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
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	0.2	0.2	0.2
123°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
123.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
124°	0.2	0.2	0.2	0.2	0.2	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	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°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
134.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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 CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.3	0.3	0.3	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	0.3
137.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3
138°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
138.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3
139°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
139.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3	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	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	0.4
154.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
155°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4
155.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
156°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
156.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
157°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P640181
 CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

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	0.4	0.4	0.4	0.4	0.4
158°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
158.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
161°	0.3	0.3	0.3	0.3	0.4	0.4	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°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.4	0.4	0.4	0.3	0.4	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	0.4	0.4	0.4	0.4	0.4
172°	0.4	0.4	0.4	0.4	0.4	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	0.4	0.4	0.4	0.4	0.4
173°	0.4	0.4	0.4	0.4	0.4	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	0.4	0.4	0.4	0.4	0.4
174°	0.4	0.4	0.4	0.4	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: P640181
CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

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: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	578.9	578.9	578.9	578.9	578.9	578.9
0.5°	578.7	578.7	578.8	578.9	579.0	579.0
1°	578.3	578.5	578.6	578.7	579.0	579.1
1.5°	578.0	578.2	578.4	578.5	578.9	579.1
2°	577.6	577.8	578.0	578.2	578.8	578.9
2.5°	577.1	577.4	577.6	577.8	578.6	578.8
3°	576.6	576.9	577.0	577.6	578.3	578.6
3.5°	575.9	576.3	576.6	577.0	577.9	578.3
4°	575.3	575.7	576.0	576.5	577.6	578.0
4.5°	574.5	575.0	575.4	576.0	577.1	577.7
5°	573.7	574.3	574.8	575.3	576.7	577.3
5.5°	572.8	573.5	574.0	574.7	576.1	576.8
6°	571.9	572.6	573.2	573.8	575.4	576.3
6.5°	571.0	571.8	572.4	573.0	574.6	575.6
7°	570.1	570.8	571.4	572.2	574.0	574.9
7.5°	569.0	569.8	570.4	571.3	573.1	574.2
8°	567.9	568.6	569.3	570.2	572.3	573.3
8.5°	566.6	567.5	568.2	569.1	571.4	572.4
9°	565.4	566.3	567.0	568.1	570.2	571.5
9.5°	564.0	565.0	565.8	566.8	569.3	570.5
10°	562.7	563.6	564.5	565.6	568.2	569.5
10.5°	561.3	562.2	563.1	564.3	567.0	568.4
11°	559.8	560.8	561.7	562.9	565.9	567.3
11.5°	558.2	559.3	560.2	561.5	564.5	565.9
12°	556.6	557.8	558.6	560.0	563.1	564.7
12.5°	555.0	556.1	557.1	558.5	561.7	563.3
13°	553.3	554.4	555.4	556.8	560.2	561.9
13.5°	551.4	552.6	553.7	555.2	558.8	560.5
14°	549.6	550.7	552.0	553.4	557.0	558.9
14.5°	547.6	549.0	550.2	551.6	555.4	557.4
15°	545.8	547.1	548.3	549.9	553.8	555.6
15.5°	543.7	545.1	546.3	548.0	552.0	553.9
16°	541.7	543.1	544.3	546.1	550.2	552.2
16.5°	539.5	541.0	542.3	544.1	548.3	550.4
17°	537.2	538.9	540.2	541.9	546.4	548.6
17.5°	535.1	536.6	538.0	539.9	544.4	546.7
18°	532.8	534.4	535.9	537.7	542.3	544.6
18.5°	530.4	532.1	533.6	535.5	540.2	542.5
19°	528.2	529.7	531.3	533.3	538.0	540.4
19.5°	525.8	527.4	528.9	530.9	535.9	538.4
20°	523.3	525.0	526.5	528.6	533.5	536.0
20.5°	520.6	522.4	523.9	526.0	531.3	533.7
21°	518.1	519.8	521.4	523.6	528.9	531.5
21.5°	515.3	517.1	518.7	521.0	526.2	529.0
22°	512.7	514.4	516.0	518.4	523.8	526.6



TEST NUMBER: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	509.9	511.7	513.3	515.7	521.2	524.1
23°	507.1	509.0	510.6	513.0	518.6	521.4
23.5°	504.1	506.1	507.7	510.2	516.0	518.8
24°	501.2	503.2	504.7	507.3	513.2	516.2
24.5°	498.3	500.3	501.9	504.4	510.5	513.5
25°	495.3	497.1	498.9	501.6	507.6	510.7
25.5°	492.1	494.1	495.8	498.5	504.7	507.8
26°	489.1	491.0	492.9	495.5	501.8	505.0
26.5°	485.9	487.8	489.7	492.4	498.9	502.0
27°	482.6	484.7	486.5	489.2	495.7	499.1
27.5°	479.3	481.3	483.2	486.0	492.6	496.0
28°	475.9	478.1	479.8	482.7	489.4	492.9
28.5°	472.6	474.6	476.4	479.3	486.1	489.6
29°	469.1	471.1	473.0	476.0	482.9	486.5
29.5°	465.6	467.8	469.5	472.5	479.5	483.2
30°	461.9	464.2	466.0	469.0	476.1	479.8
30.5°	458.3	460.5	462.3	465.4	472.7	476.5
31°	454.6	456.8	458.7	461.7	469.2	472.9
31.5°	450.9	453.1	454.9	458.0	465.6	469.4
32°	447.1	449.3	451.2	454.3	461.9	465.7
32.5°	443.1	445.4	447.4	450.5	458.2	462.0
33°	439.3	441.5	443.4	446.6	454.5	458.4
33.5°	435.1	437.5	439.4	442.7	450.6	454.7
34°	431.2	433.5	435.4	438.7	446.7	450.9
34.5°	427.1	429.4	431.2	434.7	442.7	447.0
35°	422.7	425.2	427.0	430.4	438.8	443.0
35.5°	418.4	420.9	422.7	426.1	434.7	439.0
36°	413.9	416.4	418.3	421.6	430.4	434.9
36.5°	409.4	411.8	413.6	417.2	426.3	430.8
37°	404.7	407.1	409.0	412.7	421.7	426.4
37.5°	400.1	402.4	404.2	407.9	417.3	422.0
38°	395.1	397.5	399.3	403.0	412.5	417.5
38.5°	390.2	392.5	394.3	398.0	407.8	412.8
39°	385.2	387.5	389.2	392.9	403.0	408.0
39.5°	380.1	382.3	384.0	387.7	398.1	403.3
40°	374.7	377.0	378.5	382.2	392.8	398.3
40.5°	369.6	371.8	373.2	377.0	387.7	393.3
41°	364.3	366.3	367.7	371.4	382.3	388.0
41.5°	358.8	360.8	362.1	366.1	377.0	383.0
42°	353.4	355.4	356.5	360.5	371.5	377.7
42.5°	348.0	349.8	351.0	354.8	366.1	372.4
43°	342.3	344.1	345.3	349.3	360.5	366.9
43.5°	336.8	338.4	339.6	343.6	354.9	361.4
44°	331.1	332.7	333.9	337.9	349.4	355.8
44.5°	325.4	327.0	328.2	332.1	343.7	350.3



TEST NUMBER: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	319.7	321.3	322.3	326.3	338.0	344.6
45.5°	313.8	315.4	316.6	320.6	332.2	338.8
46°	308.1	309.6	310.8	314.8	326.5	333.1
46.5°	302.2	303.8	305.0	308.9	320.6	327.4
47°	296.2	297.9	299.0	302.9	314.7	321.6
47.5°	290.3	292.0	293.1	297.1	309.0	315.6
48°	284.4	286.0	287.3	291.2	303.1	309.8
48.5°	278.5	280.0	281.3	285.3	297.1	303.8
49°	272.5	274.2	275.4	279.5	291.1	297.9
49.5°	266.4	268.1	269.5	273.5	285.3	291.9
50°	260.3	262.1	263.5	267.4	279.4	285.9
50.5°	254.3	256.2	257.6	261.5	273.4	279.9
51°	248.2	250.2	251.5	255.6	267.4	273.9
51.5°	242.2	244.2	245.7	249.7	261.3	267.9
52°	236.0	238.1	239.7	243.7	255.3	261.9
52.5°	229.9	232.0	233.8	237.7	249.3	255.7
53°	223.8	226.3	227.8	231.8	243.3	249.6
53.5°	217.7	220.1	221.9	225.8	237.3	243.4
54°	211.5	213.9	215.8	219.8	231.2	237.4
54.5°	205.5	207.9	209.9	214.0	225.1	231.2
55°	199.4	202.2	204.0	208.0	219.2	225.1
55.5°	193.2	196.2	198.1	202.1	213.2	219.0
56°	187.1	190.2	192.1	196.2	207.2	212.9
56.5°	181.1	184.2	186.4	190.3	201.3	206.8
57°	174.9	178.3	180.3	184.2	195.3	200.7
57.5°	169.0	172.4	174.6	178.5	189.2	194.4
58°	163.1	166.6	168.8	172.7	183.2	188.3
58.5°	156.9	160.6	163.1	166.9	177.3	182.3
59°	151.0	154.7	157.1	160.9	171.4	176.2
59.5°	144.9	148.9	151.3	155.4	165.4	170.0
60°	139.0	143.1	145.6	149.5	159.5	164.0
60.5°	133.1	137.1	140.0	143.7	153.7	158.0
61°	127.4	131.5	134.2	138.0	147.9	152.0
61.5°	121.5	125.8	128.6	132.6	142.1	146.1
62°	115.7	120.2	123.0	126.8	136.3	140.2
62.5°	109.9	114.5	117.4	121.2	130.6	134.2
63°	104.4	109.0	111.9	115.7	125.0	128.3
63.5°	98.8	103.3	106.5	110.2	119.4	122.5
64°	93.4	97.9	101.0	104.7	113.7	116.7
64.5°	88.2	92.6	95.7	99.3	108.0	110.9
65°	83.0	87.4	90.5	94.1	102.6	105.3
65.5°	77.8	82.0	85.3	88.8	97.3	99.7
66°	72.6	76.9	80.2	83.6	91.9	94.2
66.5°	67.4	71.9	75.0	78.6	86.6	88.8
67°	62.6	67.1	70.2	73.4	81.4	83.4



TEST NUMBER: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	57.8	62.3	65.3	68.6	76.2	78.1
68°	53.4	57.5	60.7	63.8	71.3	73.0
68.5°	49.2	53.1	56.1	59.1	66.4	68.1
69°	45.1	48.8	51.6	54.6	61.5	63.2
69.5°	41.1	44.7	47.3	50.1	56.9	58.4
70°	37.6	40.8	43.3	45.9	52.3	53.8
70.5°	34.4	37.1	39.3	41.9	48.0	49.4
71°	31.4	33.6	35.8	38.2	43.9	45.3
71.5°	28.7	31.1	33.2	34.7	39.9	41.3
72°	26.3	28.6	30.6	32.2	36.3	37.6
72.5°	24.3	26.1	27.9	29.6	33.6	34.1
73°	22.6	23.7	25.3	27.1	30.9	31.6
73.5°	21.2	22.0	22.7	24.6	28.2	29.2
74°	20.1	20.8	21.3	22.1	25.6	26.8
74.5°	19.2	19.8	20.2	20.7	22.9	24.3
75°	18.4	18.9	19.3	19.8	21.3	22.0
75.5°	17.5	18.1	18.4	18.9	20.2	20.6
76°	16.7	17.2	17.5	18.0	19.3	19.6
76.5°	15.8	16.3	16.7	17.1	18.4	18.8
77°	15.0	15.5	15.8	16.3	17.5	17.9
77.5°	14.2	14.7	15.0	15.4	16.7	17.1
78°	13.4	13.9	14.2	14.6	15.9	16.3
78.5°	12.6	13.1	13.3	13.7	15.0	15.5
79°	11.8	12.3	12.5	13.0	14.2	14.6
79.5°	11.1	11.5	11.7	12.1	13.4	13.9
80°	10.3	10.7	11.0	11.4	12.6	13.0
80.5°	9.6	10.0	10.2	10.6	11.8	12.3
81°	8.9	9.2	9.5	9.9	11.1	11.5
81.5°	8.2	8.5	8.7	9.1	10.3	10.8
82°	7.5	7.8	8.0	8.4	9.6	10.0
82.5°	6.8	7.1	7.3	7.7	8.8	9.3
83°	6.1	6.4	6.6	7.0	8.1	8.6
83.5°	5.4	5.7	5.9	6.3	7.4	7.9
84°	4.7	5.1	5.3	5.6	6.7	7.2
84.5°	4.0	4.4	4.6	5.0	6.0	6.5
85°	3.4	3.7	4.0	4.3	5.4	5.8
85.5°	2.8	3.1	3.3	3.7	4.7	5.1
86°	2.2	2.5	2.7	3.0	4.0	4.5
86.5°	1.6	1.9	2.1	2.4	3.4	3.9
87°	1.0	1.3	1.5	1.8	2.8	3.2
87.5°	0.5	0.7	0.9	1.2	2.2	2.6
88°	0.1	0.3	0.4	0.7	1.6	2.0
88.5°	0.1	0.1	0.1	0.2	1.0	1.4
89°	0.1	0.1	0.1	0.1	0.5	0.8
89.5°	0.1	0.1	0.1	0.1	0.1	0.3



TEST NUMBER: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-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	0.0
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	0.1
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	0.1	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: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

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	0.2	0.1	0.1	0.1	0.1
113.5°	0.1	0.2	0.2	0.1	0.1	0.1
114°	0.1	0.2	0.2	0.1	0.1	0.1
114.5°	0.1	0.2	0.2	0.2	0.1	0.1
115°	0.1	0.2	0.2	0.2	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	0.2	0.2
117.5°	0.1	0.2	0.2	0.2	0.2	0.2
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°	0.2	0.2	0.2	0.2	0.2	0.2
121°	0.2	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	0.3	0.2	0.2	0.2	0.2
131°	0.2	0.3	0.2	0.2	0.2	0.2
131.5°	0.2	0.3	0.2	0.3	0.2	0.2
132°	0.2	0.3	0.3	0.3	0.2	0.2
132.5°	0.2	0.3	0.3	0.3	0.2	0.2
133°	0.2	0.3	0.3	0.3	0.2	0.2
133.5°	0.2	0.3	0.3	0.3	0.2	0.3
134°	0.2	0.3	0.3	0.3	0.3	0.3
134.5°	0.2	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.2	0.3	0.3	0.3	0.3	0.3
135.5°	0.2	0.3	0.3	0.3	0.3	0.3
136°	0.3	0.3	0.3	0.3	0.3	0.3
136.5°	0.3	0.3	0.3	0.3	0.3	0.3
137°	0.3	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°	0.4	0.3	0.3	0.3	0.3	0.3
153.5°	0.4	0.3	0.3	0.3	0.3	0.3
154°	0.4	0.3	0.3	0.3	0.3	0.3
154.5°	0.4	0.3	0.3	0.3	0.3	0.3
155°	0.4	0.3	0.3	0.3	0.3	0.3
155.5°	0.4	0.3	0.3	0.3	0.3	0.3
156°	0.4	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: P640181

CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

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	0.4	0.3	0.3
162.5°	0.4	0.3	0.3	0.4	0.3	0.3
163°	0.4	0.3	0.3	0.4	0.3	0.3
163.5°	0.4	0.3	0.3	0.4	0.3	0.3
164°	0.4	0.3	0.4	0.4	0.3	0.3
164.5°	0.4	0.3	0.4	0.4	0.4	0.3
165°	0.4	0.3	0.4	0.4	0.4	0.3
165.5°	0.4	0.3	0.4	0.4	0.4	0.3
166°	0.4	0.4	0.4	0.4	0.4	0.3
166.5°	0.4	0.4	0.4	0.4	0.4	0.4
167°	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.4	0.4	0.4	0.4	0.4	0.4
168°	0.4	0.4	0.4	0.4	0.4	0.4
168.5°	0.4	0.4	0.4	0.4	0.4	0.4
169°	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.4	0.4	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: P640181
CATALOG NUMBER: LCR412RD9FSE020-14W-3500K

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)