

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: P1590534

Luminaire Tested: HCDLS510CSD4TRMW-LO-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2603928A002)
Test Lab: INNOVATION CENTER
Issue Date: 9/4/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HCDLS510CSD4TRMW-LO-3500K
Description: 4" Selectable Round Trim+Matte White (paintable) 500 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

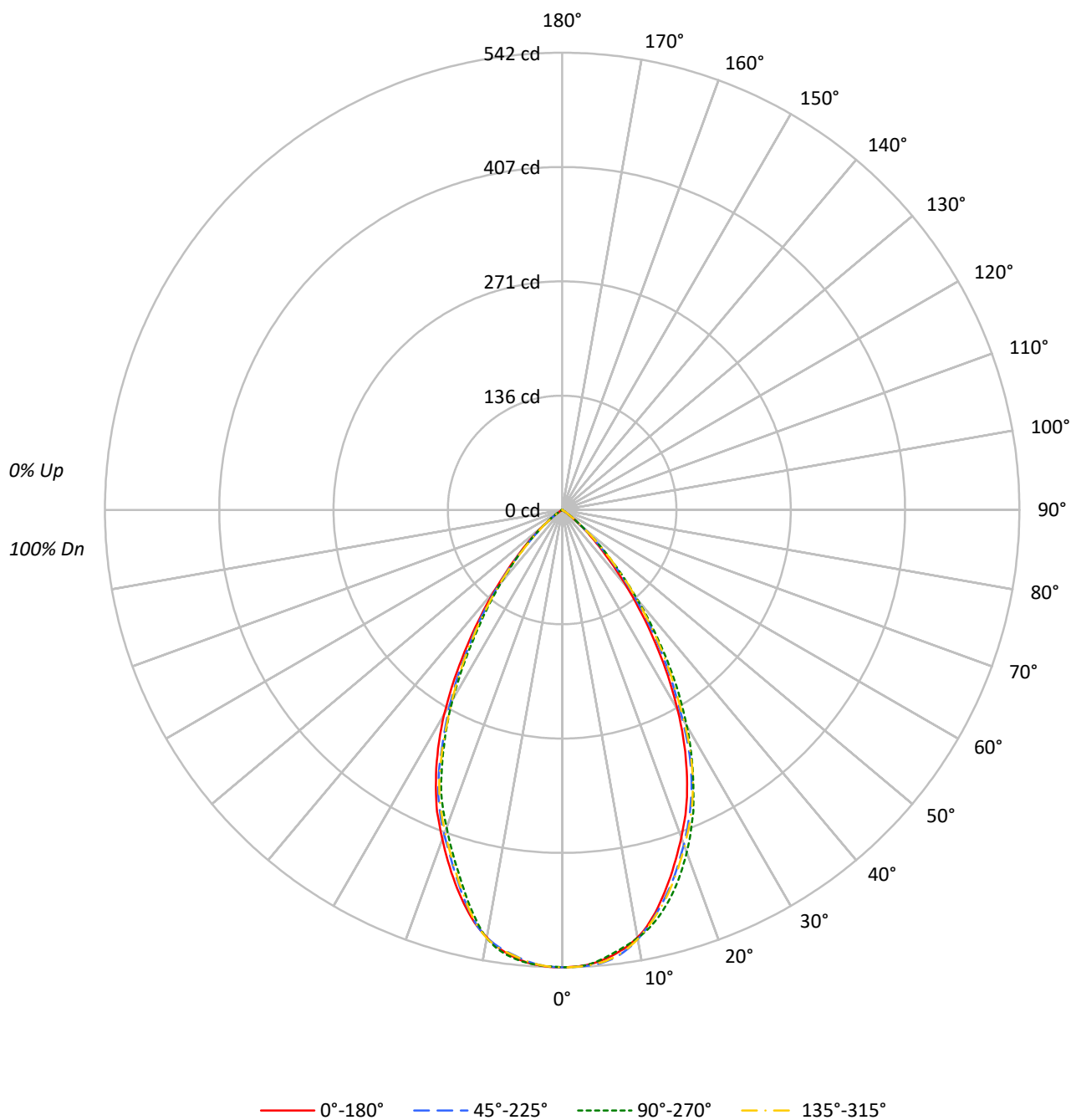
Lumens per Lamp: N/A
Luminaire Lumens: 530.1 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93		93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86		86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79		79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73		73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68		68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63		63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	58		58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		55
9	73	63	57	53	72	63	57	53	62	56	53	61	56	53	60	56	52	51		51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	66866	66866	66866	66866
5°	66366	66217	66440	66527
10°	64453	64541	64453	64528
15°	59915	61601	60120	58575
20°	54198	56679	54539	52583
25°	47620	50124	48192	45905
30°	38968	42101	39808	36917
35°	28926	32570	29543	26833
40°	19306	22430	20079	18114
45°	11321	13589	11984	11077
50°	5546	6352	5929	5699
55°	1806	1914	1914	1957
60°	419	469	444	493
65°	204	233	204	233
70°	108	144	144	144
75°	48	95	95	95
80°	0	71	0	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13589 cd/sqm

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	9.5
10°-20°	131.3	24.8
20°-30°	160.4	30.3
30°-40°	122.2	23.0
40°-50°	54.5	10.3
50°-60°	9.9	1.9
60°-70°	0.9	0.2
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.1	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	342.2	64.6
0°-40°	464.4	87.6
0°-60°	528.7	99.7
0°-90°	529.8	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	530.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	542	542	542	542	542	
5°	536	535	537	537	536	50
15°	469	482	471	459	469	131
25°	350	368	354	337	350	159
35°	192	216	196	178	192	120
45°	65	78	69	64	65	52
55°	8	9	9	9	8	9
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
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

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	542.1	542.1	542.1	542.1	542.1	542.1	542.1	542.1	542.1	542.1	542.1
0.5°	542.2	542.0	542.0	542.2	542.0	542.0	542.3	542.2	542.2	542.0	542.0
1°	541.9	541.9	542.0	542.2	542.0	542.0	542.1	542.1	542.0	541.8	541.8
1.5°	541.6	541.7	541.9	542.0	541.8	541.9	542.0	541.9	541.8	541.5	541.5
2°	541.3	541.4	541.8	541.7	541.4	541.6	541.8	541.7	541.4	541.0	541.1
2.5°	540.8	541.3	541.5	541.3	541.0	541.1	541.6	541.4	540.9	540.4	540.5
3°	540.3	541.0	541.2	540.7	540.3	540.5	541.1	541.1	540.4	539.6	539.7
3.5°	539.4	540.6	540.8	540.0	539.3	539.8	540.6	540.6	539.8	538.6	538.7
4°	538.4	540.2	540.4	539.1	538.0	538.7	540.1	540.2	538.9	537.4	537.5
4.5°	537.3	539.5	539.8	537.9	536.5	537.4	539.3	539.5	537.9	535.9	536.2
5°	536.0	538.7	538.9	536.4	534.8	535.9	538.3	538.7	536.6	534.4	534.7
5.5°	534.5	537.6	537.8	534.9	533.0	534.3	537.1	537.7	535.3	532.6	533.2
6°	533.0	536.3	536.5	533.1	531.1	532.5	535.7	536.4	533.6	530.9	531.5
6.5°	531.2	534.7	535.1	531.4	529.2	530.6	534.2	535.0	531.8	529.1	529.8
7°	529.4	532.9	533.2	529.5	527.3	528.7	532.4	533.2	529.9	527.1	528.1
7.5°	527.3	530.8	531.1	527.4	525.4	526.6	530.4	531.2	527.9	525.2	526.3
8°	525.3	528.5	528.7	525.2	523.4	524.5	528.1	528.7	525.6	523.2	524.4
8.5°	522.9	525.9	526.1	522.8	521.5	522.5	525.5	526.2	523.1	520.9	522.3
9°	520.4	523.0	523.2	520.4	519.5	520.2	522.6	523.3	520.5	518.6	520.0
9.5°	517.6	519.8	520.0	517.8	517.5	517.7	519.6	520.0	517.7	516.1	517.5
10°	514.6	516.4	516.6	515.0	515.3	515.1	516.4	516.6	514.6	513.5	514.7
10.5°	511.4	512.7	512.9	512.0	513.0	512.5	512.9	512.8	511.2	510.3	511.4
11°	507.8	508.9	509.1	508.8	510.4	509.5	509.3	509.1	507.6	506.9	507.7
11.5°	503.8	504.7	505.2	505.5	507.6	506.5	505.5	505.1	503.8	503.2	503.6
12°	499.4	500.4	501.1	501.7	504.7	503.2	501.7	500.9	499.8	498.9	498.8
12.5°	494.8	495.9	496.7	498.2	501.4	499.6	497.7	496.7	495.2	494.2	493.5
13°	490.0	491.4	492.4	494.3	498.1	496.0	493.6	492.1	490.9	489.4	488.3
13.5°	485.0	486.6	488.0	490.4	494.4	492.3	489.3	487.7	486.1	484.2	482.8
14°	479.8	481.7	483.5	486.1	490.5	488.3	485.0	482.9	481.2	478.9	477.1
14.5°	474.6	476.7	478.9	481.9	486.5	484.2	480.4	478.2	476.0	473.5	471.4
15°	469.2	471.7	474.2	477.5	482.4	479.8	476.0	473.3	470.8	467.9	465.4
15.5°	463.7	466.5	469.4	472.9	478.1	475.4	471.2	468.4	465.6	462.3	459.5
16°	458.2	461.2	464.4	468.0	473.5	470.7	466.4	463.2	460.2	456.5	453.6
16.5°	452.7	456.0	459.4	463.2	468.9	465.9	461.3	458.0	454.7	450.8	447.8
17°	447.1	450.6	454.2	458.2	464.1	461.0	456.2	452.6	449.1	445.1	442.0
17.5°	441.3	445.2	448.9	453.1	459.1	455.9	451.1	447.1	443.5	439.3	436.2
18°	435.6	439.7	443.5	447.7	453.8	450.8	445.7	441.7	438.0	433.7	430.5
18.5°	429.9	434.0	438.1	442.4	448.5	445.4	440.3	436.3	432.4	427.9	424.9
19°	424.2	428.4	432.8	437.0	443.0	440.0	435.0	430.8	426.6	422.4	419.3
19.5°	418.6	422.9	427.4	431.5	437.6	434.6	429.7	425.2	421.0	416.9	414.2
20°	412.9	417.2	421.9	426.0	431.8	429.1	424.3	419.8	415.5	411.4	408.8
20.5°	407.2	411.7	416.4	420.4	426.2	423.6	418.8	414.5	409.8	405.8	403.4
21°	401.5	405.9	410.8	414.7	420.4	417.8	413.3	409.0	404.0	400.3	398.0
21.5°	395.8	400.3	405.3	408.9	414.3	411.8	407.9	403.5	398.3	394.8	392.6
22°	389.9	394.4	399.4	402.8	408.1	405.8	402.4	398.0	392.5	389.3	386.6

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	383.9	388.7	393.6	396.9	402.0	399.9	396.9	392.4	387.3	383.1	380.7
23°	377.4	382.5	387.8	390.4	395.8	393.9	391.5	386.3	381.0	376.6	374.5
23.5°	370.9	376.4	381.8	384.3	389.7	387.9	385.2	380.3	374.5	370.1	368.0
24°	364.1	370.1	375.5	377.5	382.5	381.2	379.2	374.1	367.8	363.4	360.9
24.5°	357.2	363.5	369.5	370.9	375.6	374.5	372.9	367.7	361.0	356.3	353.6
25°	349.9	356.7	363.0	363.8	368.3	367.6	366.5	361.2	354.1	349.0	345.9
25.5°	342.8	349.9	356.4	357.1	361.3	360.6	359.8	354.6	347.2	341.6	337.9
26°	335.6	342.7	349.5	349.9	354.2	353.6	353.1	347.7	340.2	334.1	329.5
26.5°	328.6	335.6	342.4	342.7	347.0	346.4	345.9	340.5	332.9	326.4	321.1
27°	321.1	328.3	334.8	335.5	339.7	339.1	338.6	333.2	325.7	318.6	312.8
27.5°	313.6	320.9	326.8	328.1	332.7	332.0	331.0	325.7	318.5	310.6	304.8
28°	305.9	313.4	318.6	320.6	325.5	324.7	322.9	318.0	311.0	302.7	296.8
28.5°	298.2	305.3	310.1	312.8	318.3	317.1	314.8	310.1	303.4	294.6	288.8
29°	290.0	297.6	301.5	305.1	311.0	309.7	306.3	301.9	295.6	286.8	281.2
29.5°	282.1	289.5	292.5	297.4	303.5	302.1	297.7	293.4	287.6	279.0	273.5
30°	273.6	281.1	283.8	289.3	295.6	294.3	288.7	284.7	279.5	271.2	265.8
30.5°	265.4	272.3	275.1	280.9	287.7	286.1	279.9	275.9	271.1	263.3	258.0
31°	257.3	263.9	266.8	272.6	279.8	278.1	271.4	267.1	262.9	255.7	250.1
31.5°	249.2	254.9	258.6	264.2	271.9	269.9	263.1	258.2	254.4	248.0	242.2
32°	241.0	246.3	250.7	255.8	263.9	261.5	255.1	249.7	246.4	240.4	234.2
32.5°	233.1	237.4	242.8	247.4	256.1	253.3	247.1	241.5	237.7	232.6	226.2
33°	225.2	229.3	235.2	239.2	248.3	244.8	239.6	233.3	229.2	225.1	218.1
33.5°	217.2	220.7	227.5	230.9	240.4	236.5	231.9	225.4	220.7	217.2	209.9
34°	209.4	212.9	219.9	223.0	232.4	228.4	224.4	217.6	212.6	209.4	202.3
34.5°	201.4	204.8	212.0	215.3	224.3	220.4	216.8	210.0	204.2	201.5	194.5
35°	192.1	197.0	204.2	207.7	216.3	212.6	209.1	202.6	196.2	193.4	187.2
35.5°	184.8	189.5	196.6	200.3	208.3	204.9	201.4	194.9	188.4	185.5	180.1
36°	177.4	181.9	189.1	193.3	200.1	197.4	193.8	187.2	181.0	177.8	173.2
36.5°	170.1	174.4	181.7	185.9	192.2	189.8	186.1	179.6	173.3	170.1	166.1
37°	162.7	166.9	174.2	178.6	184.2	182.4	178.6	172.1	165.9	162.6	159.4
37.5°	155.1	159.4	166.8	171.2	176.3	175.1	171.1	164.4	158.7	155.2	152.6
38°	147.6	152.5	159.3	163.9	168.7	167.8	164.1	157.1	151.7	148.2	145.8
38.5°	140.4	145.5	152.4	156.6	161.0	160.5	157.0	150.0	144.7	141.3	139.0
39°	133.4	138.9	145.8	149.7	153.6	153.7	150.3	143.1	138.0	134.5	132.4
39.5°	126.5	132.2	139.0	142.6	146.4	146.6	143.7	136.5	131.3	127.7	125.8
40°	119.9	125.8	132.4	135.8	139.3	139.8	137.1	130.1	124.7	121.1	119.4
40.5°	113.5	119.7	126.0	129.0	132.4	132.7	130.6	123.8	118.1	114.6	113.0
41°	107.3	113.5	119.5	122.5	125.6	126.1	124.1	117.7	111.8	108.3	107.0
41.5°	101.3	107.4	113.0	116.1	119.1	119.4	117.7	111.7	105.7	102.2	101.2
42°	95.6	101.8	107.0	110.0	112.7	113.0	111.4	106.0	99.8	96.1	95.5
42.5°	90.0	96.1	100.9	103.9	106.5	106.6	105.0	100.2	94.2	90.4	89.8
43°	84.6	90.5	95.0	97.6	100.5	100.5	98.9	94.6	88.7	84.9	84.4
43.5°	79.3	84.9	89.2	91.7	94.5	94.4	93.0	89.1	83.3	79.6	78.9
44°	74.4	79.6	83.9	85.8	88.7	88.7	87.3	83.8	78.3	74.5	73.8
44.5°	69.6	74.4	78.5	80.1	83.2	82.9	81.6	78.5	73.4	69.7	68.5

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	64.9	69.5	73.4	74.5	77.9	77.5	76.3	73.4	68.7	65.0	63.6
45.5°	60.4	64.6	68.5	69.1	72.5	72.0	71.1	68.5	64.1	60.5	58.8
46°	56.3	60.1	63.6	64.0	67.4	66.9	66.1	63.7	59.6	56.2	54.5
46.5°	52.2	55.6	58.8	59.0	62.4	61.8	61.3	59.1	55.5	52.5	50.6
47°	48.3	51.5	54.2	54.3	57.8	57.0	56.5	54.6	51.8	48.8	46.8
47.5°	44.6	47.4	49.8	49.7	53.6	52.8	52.4	50.7	48.1	45.1	42.9
48°	41.2	43.6	45.5	45.5	49.4	48.6	48.2	46.8	44.4	41.4	39.1
48.5°	37.8	39.8	41.5	41.5	45.2	44.5	44.1	42.9	40.7	37.7	35.9
49°	34.7	36.5	37.6	37.7	40.9	40.3	40.0	39.0	37.1	34.6	33.1
49.5°	31.7	33.2	33.9	34.2	36.7	36.1	35.8	35.1	33.9	31.7	30.4
50°	28.9	30.1	30.5	30.8	33.1	32.7	32.3	31.8	30.9	28.9	28.0
50.5°	26.1	27.1	27.3	27.6	29.7	29.4	29.1	28.7	28.1	26.4	25.6
51°	23.7	24.4	24.4	24.7	26.5	26.4	26.1	25.8	25.4	24.0	23.4
51.5°	21.2	21.8	21.7	21.9	23.6	23.5	23.3	23.1	22.8	21.7	21.4
52°	19.0	19.4	19.2	19.4	20.8	20.9	20.7	20.5	20.4	19.6	19.4
52.5°	17.1	17.4	17.3	17.4	18.3	18.4	18.2	18.1	18.1	17.5	17.4
53°	15.2	15.5	15.3	15.4	16.0	16.1	16.0	15.9	15.9	15.6	15.6
53.5°	13.2	13.5	13.4	13.4	13.8	14.0	14.0	13.9	13.9	13.7	13.8
54°	11.3	11.6	11.4	11.4	12.0	12.1	12.1	12.0	12.1	12.0	12.1
54.5°	9.8	9.6	9.5	9.5	10.3	10.5	10.5	10.3	10.4	10.4	10.6
55°	8.4	8.2	8.1	8.1	8.9	9.1	9.0	8.9	8.9	9.0	9.2
55.5°	7.2	7.0	6.9	6.8	7.6	7.8	7.7	7.6	7.6	7.7	7.9
56°	5.9	5.7	5.6	5.6	6.4	6.4	6.4	6.8	6.7	6.8	6.6
56.5°	4.8	4.6	4.5	4.5	5.6	5.7	5.7	5.9	5.8	6.0	5.8
57°	3.9	3.7	3.7	3.7	4.9	5.0	5.0	5.1	4.8	5.1	5.0
57.5°	3.2	3.1	3.1	3.1	4.1	4.2	4.2	4.3	3.9	4.3	4.2
58°	2.7	2.6	2.6	2.7	3.4	3.5	3.5	3.5	3.0	3.4	3.5
58.5°	2.3	2.3	2.3	2.3	2.7	2.8	2.8	2.6	2.6	2.5	2.7
59°	2.1	2.0	2.0	2.0	2.4	2.5	2.4	2.3	2.2	2.2	2.3
59.5°	1.9	1.8	1.8	1.9	2.1	2.2	2.2	2.0	2.0	2.0	2.0
60°	1.7	1.7	1.7	1.7	1.9	2.0	1.9	1.8	1.8	1.7	1.8
60.5°	1.5	1.5	1.5	1.5	1.7	1.8	1.8	1.7	1.6	1.6	1.6
61°	1.4	1.3	1.3	1.4	1.6	1.6	1.6	1.5	1.4	1.4	1.5
61.5°	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.3
62°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2
62.5°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.1	1.1	1.1	1.1
63°	1.0	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
63.5°	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
64°	0.8	0.8	0.8	0.8	0.9	1.0	1.0	0.9	0.9	0.9	0.9
64.5°	0.8	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
65°	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
65.5°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
66°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6
66.5°	0.6	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
67°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
68°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
68.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5
69°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
69.5°	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
70°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
76°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
76.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
79°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
79.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1
80.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
130.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
131°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
138°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
138.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
139°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
139.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
141°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
141.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
142°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
142.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
143°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
143.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
149°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
149.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
150°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
150.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
151°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
151.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
152°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
152.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
153°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
153.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
154°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
154.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2
155.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3
156°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173°	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3
173.5°	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2
174°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
174.5°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
176.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
177.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
178.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
179°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
179.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	542.1	542.1	542.1	542.1	542.1	542.1
0.5°	542.1	541.7	541.9	542.1	542.1	542.2
1°	542.0	541.6	541.8	541.9	541.8	541.9
1.5°	541.7	541.4	541.6	541.5	541.4	541.6
2°	541.4	541.1	541.2	541.0	540.9	541.3
2.5°	540.9	540.7	540.7	540.4	540.4	540.8
3°	540.4	540.4	540.3	539.6	539.4	540.3
3.5°	539.7	539.8	539.5	538.6	538.3	539.4
4°	538.9	539.1	538.7	537.5	537.1	538.4
4.5°	537.8	538.3	537.8	536.3	535.8	537.3
5°	536.7	537.3	536.7	534.8	534.3	536.0
5.5°	535.5	536.2	535.5	533.4	532.7	534.5
6°	534.1	534.9	534.3	531.9	531.0	533.0
6.5°	532.6	533.5	532.8	530.4	529.4	531.2
7°	531.0	531.8	531.2	528.8	527.6	529.4
7.5°	529.2	529.9	529.3	527.2	525.9	527.3
8°	527.2	527.7	527.3	525.2	524.0	525.3
8.5°	525.1	525.3	524.9	523.2	522.0	522.9
9°	522.6	522.3	522.2	520.8	519.7	520.4
9.5°	519.8	519.1	519.1	518.3	517.3	517.6
10°	516.6	515.2	515.6	515.1	514.6	514.6
10.5°	512.9	511.0	511.4	511.8	511.5	511.4
11°	508.7	506.2	506.8	507.8	508.0	507.8
11.5°	503.8	500.8	501.7	503.3	504.1	503.8
12°	498.7	495.0	496.1	498.1	499.5	499.4
12.5°	493.1	489.3	490.4	492.8	494.5	494.8
13°	487.4	483.3	484.4	487.2	489.5	490.0
13.5°	481.6	477.4	478.4	481.4	484.2	485.0
14°	475.6	471.2	472.3	475.4	478.6	479.8
14.5°	469.5	465.0	466.2	469.6	472.9	474.6
15°	463.4	458.7	459.9	463.4	467.1	469.2
15.5°	457.4	452.7	453.9	457.6	461.2	463.7
16°	451.5	446.7	448.0	451.6	455.3	458.2
16.5°	445.6	441.0	442.2	445.8	449.8	452.7
17°	439.8	435.1	436.3	440.1	443.9	447.1
17.5°	434.2	429.3	430.7	434.3	438.3	441.3
18°	428.5	423.4	424.8	428.6	432.4	435.6
18.5°	422.7	417.6	419.0	422.9	426.7	429.9
19°	417.2	411.9	413.5	417.3	420.9	424.2
19.5°	411.9	406.1	407.9	411.7	415.3	418.6
20°	406.5	400.6	402.5	406.1	409.5	412.9
20.5°	401.2	394.9	396.9	400.7	403.9	407.2
21°	395.8	389.4	391.4	395.0	398.1	401.5
21.5°	390.5	383.8	385.9	389.4	392.4	395.8
22°	385.0	378.2	380.3	383.7	386.7	389.9

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	379.3	372.5	374.5	378.1	380.7	383.9
23°	373.1	366.3	368.3	371.9	374.3	377.4
23.5°	366.4	359.7	361.7	365.4	367.9	370.9
24°	359.6	352.5	354.8	358.4	361.0	364.1
24.5°	352.5	344.7	347.6	351.0	353.7	357.2
25°	345.1	337.3	340.0	343.2	346.1	349.9
25.5°	337.3	329.7	332.4	335.2	338.4	342.8
26°	329.6	322.2	324.6	326.9	330.6	335.6
26.5°	321.5	314.4	316.7	318.6	322.5	328.6
27°	313.2	307.0	308.7	310.2	314.0	321.1
27.5°	304.8	299.4	300.5	301.8	305.8	313.6
28°	296.2	291.6	292.2	293.5	298.0	305.9
28.5°	287.7	283.7	284.1	285.2	290.2	298.2
29°	279.5	275.8	276.0	277.2	282.5	290.0
29.5°	271.4	267.5	267.9	269.3	274.9	282.1
30°	263.3	259.2	259.5	261.5	267.5	273.6
30.5°	255.2	250.5	251.2	253.7	259.8	265.4
31°	247.4	242.3	243.0	245.9	252.2	257.3
31.5°	239.4	233.8	234.8	238.1	244.4	249.2
32°	231.7	225.6	226.7	230.2	236.4	241.0
32.5°	224.0	217.5	218.8	222.3	228.4	233.1
33°	216.2	209.5	211.1	214.5	220.3	225.2
33.5°	208.4	201.4	203.5	206.4	212.2	217.2
34°	200.7	192.5	196.4	198.7	204.0	209.4
34.5°	193.0	185.3	188.9	191.4	196.1	201.4
35°	185.7	178.2	181.5	184.2	188.7	192.1
35.5°	178.2	171.0	174.1	176.9	181.2	184.8
36°	171.1	163.8	166.7	169.6	173.8	177.4
36.5°	163.9	156.9	159.2	162.3	166.3	170.1
37°	156.9	150.0	152.2	155.4	158.9	162.7
37.5°	149.9	143.4	145.2	148.6	152.0	155.1
38°	143.1	137.0	138.4	142.1	145.2	147.6
38.5°	136.6	130.7	131.7	135.4	138.2	140.4
39°	130.1	124.7	125.7	129.0	131.6	133.4
39.5°	123.8	118.5	119.5	122.4	124.9	126.5
40°	117.4	112.5	113.5	116.1	118.2	119.9
40.5°	111.5	106.8	107.7	109.8	111.6	113.5
41°	105.6	101.3	102.2	103.7	105.3	107.3
41.5°	99.9	96.0	96.7	97.9	99.1	101.3
42°	94.4	90.9	91.4	92.2	93.2	95.6
42.5°	88.9	86.0	86.2	86.5	87.4	90.0
43°	83.7	81.2	81.2	81.3	82.0	84.6
43.5°	78.7	76.5	76.4	76.0	76.7	79.3
44°	73.9	72.0	71.8	70.9	71.6	74.4
44.5°	69.3	67.6	67.4	66.0	66.6	69.6

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	64.8	63.5	63.1	61.3	61.9	64.9
45.5°	60.5	59.4	59.0	56.8	57.4	60.4
46°	56.4	55.6	55.1	52.5	53.1	56.3
46.5°	52.6	51.8	51.3	48.5	49.0	52.2
47°	49.0	48.2	47.7	44.8	45.2	48.3
47.5°	45.5	44.8	44.2	41.3	41.6	44.6
48°	42.0	41.4	40.9	38.0	38.3	41.2
48.5°	38.4	38.3	37.8	35.1	35.3	37.8
49°	35.3	35.3	34.8	32.3	32.3	34.7
49.5°	32.4	32.4	31.9	29.8	29.8	31.7
50°	29.7	29.7	29.1	27.4	27.3	28.9
50.5°	27.1	27.0	26.6	25.1	25.0	26.1
51°	24.7	24.5	24.2	23.0	22.7	23.7
51.5°	22.4	22.1	21.9	20.9	20.7	21.2
52°	20.2	19.9	19.7	18.9	18.9	19.0
52.5°	18.1	18.0	17.9	17.1	17.1	17.1
53°	16.1	16.1	16.0	15.4	15.3	15.2
53.5°	14.3	14.3	14.2	13.6	13.5	13.2
54°	12.6	12.4	12.4	11.9	11.6	11.3
54.5°	10.9	10.5	10.6	10.4	10.1	9.8
55°	9.5	9.1	9.1	9.0	8.7	8.4
55.5°	8.2	7.8	7.9	7.7	7.5	7.2
56°	6.9	6.5	6.6	6.5	6.3	5.9
56.5°	6.1	5.4	5.5	5.4	5.1	4.8
57°	5.3	4.4	4.5	4.4	4.1	3.9
57.5°	4.5	3.7	3.8	3.7	3.4	3.2
58°	3.6	3.1	3.2	3.1	2.9	2.7
58.5°	2.8	2.7	2.8	2.7	2.5	2.3
59°	2.4	2.4	2.5	2.4	2.2	2.1
59.5°	2.2	2.1	2.2	2.1	1.9	1.9
60°	1.9	2.0	2.0	2.0	1.8	1.7
60.5°	1.7	1.8	1.8	1.8	1.6	1.5
61°	1.6	1.7	1.7	1.6	1.5	1.4
61.5°	1.4	1.5	1.5	1.5	1.3	1.2
62°	1.3	1.3	1.4	1.3	1.2	1.1
62.5°	1.2	1.2	1.3	1.2	1.1	1.0
63°	1.1	1.1	1.2	1.1	1.0	1.0
63.5°	1.0	1.1	1.1	1.0	1.0	0.9
64°	0.9	1.0	1.0	1.0	0.9	0.8
64.5°	0.9	0.9	0.9	0.9	0.8	0.8
65°	0.8	0.8	0.9	0.8	0.8	0.7
65.5°	0.7	0.8	0.8	0.8	0.7	0.6
66°	0.7	0.7	0.8	0.7	0.6	0.6
66.5°	0.6	0.7	0.7	0.7	0.6	0.6
67°	0.6	0.6	0.7	0.6	0.6	0.5

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.6	0.6	0.6	0.6	0.5	0.5
68°	0.5	0.5	0.6	0.5	0.5	0.4
68.5°	0.5	0.5	0.5	0.5	0.4	0.4
69°	0.4	0.5	0.5	0.5	0.4	0.4
69.5°	0.4	0.4	0.5	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.3
70.5°	0.4	0.4	0.4	0.4	0.3	0.3
71°	0.3	0.4	0.4	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.2
72.5°	0.3	0.3	0.3	0.3	0.2	0.2
73°	0.2	0.3	0.3	0.3	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.1
75.5°	0.2	0.2	0.2	0.2	0.1	0.1
76°	0.1	0.2	0.2	0.2	0.1	0.1
76.5°	0.1	0.1	0.1	0.1	0.1	0.1
77°	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.1	0.1	0.1	0.1	0.1	0.1
78°	0.1	0.1	0.1	0.1	0.1	0.1
78.5°	0.1	0.1	0.1	0.1	0.1	0.1
79°	0.1	0.1	0.1	0.1	0.1	0.1
79.5°	0.1	0.1	0.1	0.1	0.1	0.0
80°	0.1	0.1	0.1	0.1	0.0	0.0
80.5°	0.1	0.1	0.1	0.1	0.0	0.0
81°	0.0	0.0	0.1	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.1	0.0	0.0	0.0	0.0	0.0
130.5°	0.1	0.1	0.0	0.0	0.0	0.0
131°	0.1	0.1	0.1	0.1	0.0	0.0
131.5°	0.1	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1
138°	0.1	0.1	0.1	0.1	0.1	0.1
138.5°	0.1	0.1	0.1	0.1	0.1	0.1
139°	0.1	0.1	0.1	0.1	0.1	0.1
139.5°	0.1	0.1	0.1	0.1	0.1	0.1
140°	0.1	0.1	0.1	0.1	0.1	0.1
140.5°	0.1	0.1	0.1	0.1	0.1	0.1
141°	0.1	0.1	0.1	0.1	0.1	0.1
141.5°	0.1	0.1	0.1	0.1	0.1	0.1
142°	0.1	0.1	0.1	0.1	0.1	0.1
142.5°	0.1	0.1	0.1	0.1	0.1	0.1
143°	0.2	0.1	0.1	0.1	0.1	0.1
143.5°	0.2	0.1	0.1	0.1	0.1	0.1
144°	0.2	0.1	0.1	0.1	0.1	0.1
144.5°	0.2	0.1	0.1	0.1	0.1	0.1
145°	0.2	0.1	0.1	0.1	0.1	0.1
145.5°	0.2	0.1	0.1	0.1	0.1	0.1
146°	0.2	0.1	0.1	0.1	0.1	0.1
146.5°	0.2	0.1	0.1	0.1	0.1	0.1
147°	0.2	0.1	0.1	0.1	0.1	0.1
147.5°	0.2	0.1	0.1	0.1	0.1	0.1
148°	0.2	0.1	0.1	0.1	0.1	0.1
148.5°	0.2	0.1	0.1	0.1	0.1	0.1
149°	0.2	0.1	0.1	0.1	0.1	0.1
149.5°	0.2	0.1	0.1	0.1	0.1	0.1
150°	0.2	0.1	0.1	0.1	0.1	0.1
150.5°	0.2	0.1	0.1	0.1	0.1	0.1
151°	0.2	0.1	0.1	0.1	0.1	0.1
151.5°	0.2	0.1	0.1	0.1	0.1	0.1
152°	0.2	0.1	0.1	0.1	0.1	0.1
152.5°	0.2	0.1	0.1	0.1	0.1	0.1
153°	0.2	0.1	0.1	0.1	0.1	0.1
153.5°	0.2	0.1	0.1	0.1	0.1	0.1
154°	0.2	0.1	0.1	0.1	0.1	0.1
154.5°	0.2	0.1	0.1	0.1	0.1	0.1
155°	0.2	0.1	0.1	0.1	0.1	0.1
155.5°	0.3	0.1	0.1	0.1	0.1	0.1
156°	0.3	0.1	0.1	0.1	0.1	0.1
156.5°	0.3	0.1	0.1	0.1	0.1	0.1
157°	0.3	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.1	0.1	0.1	0.1	0.1
158°	0.3	0.1	0.1	0.1	0.1	0.1
158.5°	0.3	0.1	0.1	0.1	0.2	0.1
159°	0.3	0.1	0.1	0.2	0.2	0.2
159.5°	0.3	0.1	0.1	0.2	0.2	0.2
160°	0.3	0.1	0.1	0.2	0.2	0.2
160.5°	0.3	0.1	0.1	0.2	0.2	0.2
161°	0.3	0.1	0.1	0.2	0.2	0.2
161.5°	0.3	0.1	0.1	0.2	0.2	0.2
162°	0.3	0.1	0.2	0.2	0.2	0.2
162.5°	0.3	0.1	0.2	0.2	0.2	0.2
163°	0.3	0.1	0.2	0.2	0.2	0.2
163.5°	0.3	0.1	0.2	0.2	0.2	0.2
164°	0.3	0.1	0.2	0.2	0.2	0.2
164.5°	0.3	0.1	0.2	0.2	0.2	0.2
165°	0.3	0.1	0.2	0.2	0.2	0.2
165.5°	0.3	0.1	0.2	0.2	0.2	0.2
166°	0.3	0.1	0.2	0.2	0.2	0.2
166.5°	0.3	0.1	0.2	0.2	0.2	0.2
167°	0.3	0.1	0.2	0.2	0.2	0.2
167.5°	0.3	0.1	0.2	0.2	0.2	0.2
168°	0.3	0.1	0.2	0.2	0.2	0.2
168.5°	0.3	0.1	0.2	0.2	0.2	0.2
169°	0.3	0.1	0.2	0.2	0.2	0.2
169.5°	0.3	0.1	0.2	0.2	0.2	0.2
170°	0.3	0.1	0.2	0.2	0.2	0.2
170.5°	0.3	0.1	0.2	0.2	0.2	0.2
171°	0.3	0.1	0.2	0.2	0.2	0.2
171.5°	0.3	0.1	0.2	0.2	0.2	0.2
172°	0.3	0.1	0.2	0.2	0.2	0.2
172.5°	0.3	0.1	0.2	0.2	0.2	0.2
173°	0.3	0.1	0.2	0.2	0.2	0.2
173.5°	0.2	0.1	0.2	0.2	0.2	0.2
174°	0.2	0.1	0.2	0.2	0.2	0.2
174.5°	0.2	0.1	0.2	0.2	0.2	0.2
175°	0.2	0.1	0.2	0.2	0.2	0.2
175.5°	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2
176.5°	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2
177.5°	0.2	0.2	0.2	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2
178.5°	0.2	0.2	0.2	0.2	0.2	0.2
179°	0.2	0.2	0.2	0.2	0.2	0.2
179.5°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590534

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.1	1.1	0.4	1.4	1.7	1.1	2.1	1.5	2.4	2.8
	3H	0.0	0.9	0.4	1.2	1.6	1.0	1.9	1.4	2.3	2.6
	4H	0.0	0.8	0.3	1.1	1.5	0.9	1.8	1.4	2.1	2.5
	6H	0.0	0.6	0.3	1.0	1.4	0.9	1.6	1.3	2.0	2.4
	8H	0.0	0.5	0.2	0.9	1.3	0.8	1.5	1.2	1.9	2.3
	12H	0.0	0.4	0.2	0.8	1.2	0.7	1.4	1.2	1.8	2.3
4H	2H	0.0	0.7	0.3	1.1	1.5	0.9	1.7	1.3	2.1	2.5
	3H	0.0	0.5	0.3	0.9	1.3	0.8	1.5	1.3	1.9	2.3
	4H	0.0	0.4	0.2	0.8	1.2	0.8	1.4	1.2	1.8	2.2
	6H	0.0	0.2	0.1	0.6	1.1	0.7	1.2	1.1	1.6	2.1
	8H	0.0	0.1	0.1	0.5	1.0	0.6	1.1	1.1	1.5	2.0
	12H	0.0	0.0	0.0	0.4	0.9	0.5	0.9	1.0	1.4	1.9
8H	4H	0.0	0.1	0.1	0.5	1.0	0.6	1.1	1.1	1.5	2.0
	6H	0.0	0.0	0.0	0.4	0.9	0.5	0.9	1.0	1.4	1.9
	8H	0.0	0.0	0.0	0.3	0.8	0.4	0.8	1.0	1.3	1.8
	12H	0.0	0.0	0.0	0.2	0.7	0.4	0.7	0.9	1.2	1.7
12H	4H	0.0	0.0	0.0	0.5	0.9	0.5	0.9	1.0	1.4	1.9
	6H	0.0	0.0	0.0	0.2	0.8	0.4	0.8	1.0	1.2	1.8
	8H	0.0	0.0	0.0	0.2	0.8	0.4	0.7	0.9	1.2	1.7

(END OF REPORT)