

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: P1590518

Luminaire Tested: HCDLS510CSD4TRH-LO-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590518
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: HCDLS510CSD4TRH-LO-3000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 500 Lumens 3000K

Light Source:
Ballast/Driver: -

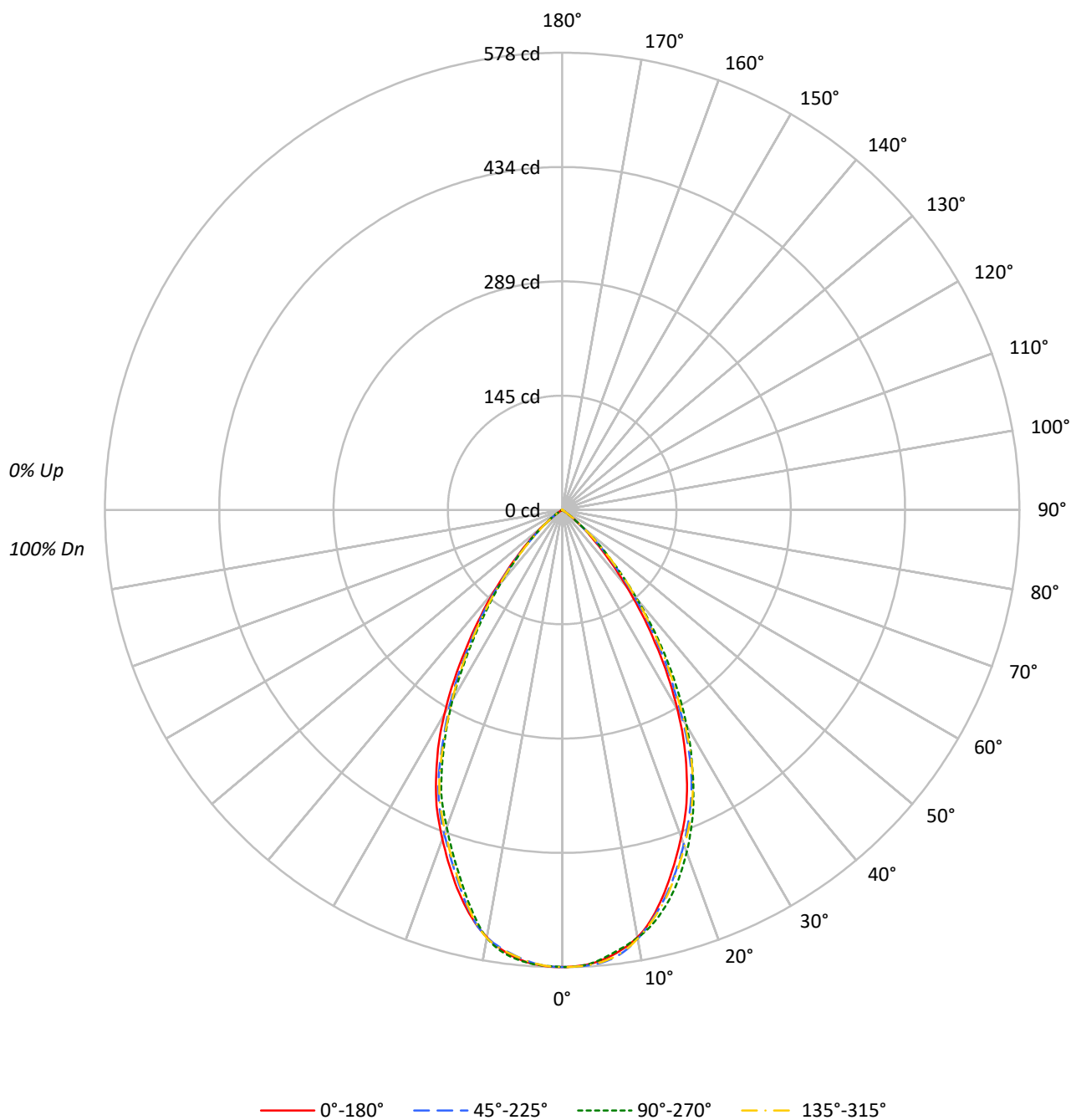
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 565.0 lumens
Efficiency: N/A
Efficacy: 92.6 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: 0.9
Total Harmonic Distortion (THDi): =20%
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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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°	71269	71269	71269	71269
5°	70737	70576	70811	70910
10°	68699	68786	68686	68774
15°	63861	65662	64078	62431
20°	57755	60420	58136	56049
25°	50764	53432	51377	48927
30°	41532	44865	42429	39338
35°	30838	34708	31486	28595
40°	20578	23895	21399	19306
45°	12071	14478	12769	11792
50°	5910	6774	6332	6064
55°	1935	2043	2043	2086
60°	444	493	469	518
65°	204	263	233	263
70°	108	144	144	144
75°	95	95	95	95
80°	0	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 14478 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	9.5
10°-20°	139.9	24.8
20°-30°	170.9	30.3
30°-40°	130.2	23.0
40°-50°	58.1	10.3
50°-60°	10.5	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°	364.7	64.6
0°-40°	494.9	87.6
0°-60°	563.5	99.7
0°-90°	564.6	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	565.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	578	578	578	578	578	
5°	571	570	572	573	571	54
15°	500	514	502	489	500	140
25°	373	393	378	360	373	170
35°	205	230	209	190	205	128
45°	69	83	73	68	69	55
55°	9	10	10	10	9	10
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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
0.5°	577.9	577.7	577.7	577.9	577.7	577.7	578.0	577.9	577.9	577.7	577.7
1°	577.6	577.6	577.7	577.9	577.7	577.7	577.8	577.8	577.7	577.5	577.5
1.5°	577.3	577.4	577.6	577.7	577.5	577.6	577.7	577.6	577.5	577.1	577.1
2°	576.9	577.1	577.5	577.4	577.1	577.2	577.5	577.4	577.0	576.6	576.7
2.5°	576.4	576.9	577.2	576.9	576.6	576.7	577.2	577.1	576.5	576.0	576.1
3°	575.8	576.6	576.8	576.3	575.8	576.1	576.7	576.7	576.0	575.1	575.2
3.5°	574.9	576.2	576.4	575.6	574.8	575.3	576.2	576.2	575.3	574.1	574.2
4°	573.9	575.7	576.0	574.6	573.4	574.2	575.6	575.7	574.4	572.7	572.9
4.5°	572.6	575.0	575.4	573.3	571.8	572.8	574.8	575.0	573.3	571.2	571.5
5°	571.3	574.2	574.4	571.7	570.0	571.2	573.7	574.2	571.9	569.5	569.9
5.5°	569.7	573.0	573.2	570.1	568.1	569.4	572.4	573.1	570.5	567.7	568.3
6°	568.1	571.6	571.9	568.2	566.1	567.5	571.0	571.8	568.8	565.8	566.5
6.5°	566.2	569.9	570.3	566.3	564.0	565.5	569.3	570.2	566.8	563.9	564.7
7°	564.2	568.0	568.3	564.3	562.0	563.5	567.4	568.3	564.8	561.8	562.9
7.5°	562.0	565.7	566.1	562.1	559.9	561.3	565.3	566.1	562.7	559.7	560.9
8°	559.8	563.3	563.5	559.7	557.9	559.1	562.8	563.5	560.2	557.6	558.9
8.5°	557.3	560.5	560.8	557.3	555.8	556.9	560.1	560.9	557.6	555.2	556.6
9°	554.6	557.4	557.6	554.7	553.7	554.4	557.1	557.7	554.8	552.8	554.2
9.5°	551.6	554.0	554.3	551.9	551.5	551.8	553.9	554.3	551.8	550.1	551.6
10°	548.5	550.4	550.6	548.9	549.2	549.0	550.4	550.6	548.4	547.3	548.6
10.5°	545.1	546.5	546.7	545.7	546.8	546.2	546.7	546.6	544.8	543.9	545.0
11°	541.2	542.4	542.6	542.3	544.0	543.1	542.8	542.6	541.1	540.3	541.1
11.5°	537.0	537.9	538.4	538.7	541.1	539.8	538.8	538.3	537.0	536.4	536.8
12°	532.3	533.3	534.1	534.8	538.0	536.3	534.7	533.9	532.7	531.7	531.7
12.5°	527.4	528.5	529.4	531.0	534.4	532.4	530.5	529.4	527.8	526.8	526.0
13°	522.3	523.7	524.8	526.8	530.9	528.6	526.1	524.5	523.2	521.6	520.5
13.5°	517.0	518.6	520.1	522.7	527.0	524.7	521.5	519.8	518.1	516.1	514.6
14°	511.4	513.4	515.3	518.1	522.8	520.4	516.9	514.7	512.9	510.5	508.5
14.5°	505.9	508.1	510.5	513.7	518.5	516.1	512.0	509.7	507.3	504.6	502.4
15°	500.1	502.7	505.4	509.0	514.2	511.4	507.4	504.5	501.8	498.7	496.1
15.5°	494.2	497.2	500.3	504.0	509.6	506.7	502.3	499.2	496.3	492.8	489.7
16°	488.4	491.5	495.0	498.8	504.7	501.7	497.1	493.7	490.5	486.5	483.5
16.5°	482.5	486.0	489.6	493.7	499.8	496.6	491.7	488.1	484.6	480.4	477.3
17°	476.5	480.3	484.1	488.4	494.6	491.3	486.2	482.4	478.7	474.4	471.1
17.5°	470.4	474.5	478.4	482.9	489.3	485.9	480.8	476.5	472.7	468.3	465.0
18°	464.3	468.6	472.7	477.2	483.7	480.5	475.0	470.7	466.8	462.2	458.9
18.5°	458.2	462.6	466.9	471.5	478.0	474.7	469.3	465.0	460.8	456.1	452.9
19°	452.1	456.6	461.3	465.7	472.1	469.0	463.7	459.2	454.6	450.2	446.9
19.5°	446.1	450.7	455.5	459.9	466.4	463.2	458.0	453.1	448.7	444.3	441.5
20°	440.0	444.6	449.7	454.0	460.3	457.4	452.3	447.4	442.9	438.4	435.7
20.5°	434.0	438.8	443.8	448.1	454.3	451.5	446.4	441.8	436.7	432.5	429.9
21°	427.9	432.6	437.8	442.0	448.1	445.3	440.5	435.9	430.6	426.7	424.2
21.5°	421.9	426.6	431.9	435.8	441.6	438.9	434.7	430.0	424.5	420.8	418.4
22°	415.5	420.3	425.7	429.3	435.0	432.6	428.9	424.2	418.4	414.9	412.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	409.2	414.3	419.6	423.1	428.5	426.2	423.1	418.3	412.8	408.4	405.8
23°	402.3	407.7	413.3	416.1	421.9	419.8	417.2	411.8	406.1	401.4	399.2
23.5°	395.4	401.2	407.0	409.6	415.3	413.4	410.6	405.4	399.2	394.4	392.2
24°	388.1	394.5	400.3	402.3	407.7	406.3	404.2	398.8	392.0	387.3	384.7
24.5°	380.7	387.4	393.8	395.3	400.3	399.1	397.5	391.9	384.8	379.7	376.8
25°	373.0	380.2	386.9	387.8	392.6	391.8	390.6	385.0	377.5	372.0	368.7
25.5°	365.4	372.9	379.8	380.6	385.1	384.4	383.5	377.9	370.0	364.1	360.2
26°	357.7	365.3	372.5	372.9	377.5	376.9	376.3	370.6	362.5	356.1	351.2
26.5°	350.3	357.7	365.0	365.3	369.8	369.2	368.7	362.9	354.8	347.9	342.2
27°	342.2	349.9	356.8	357.5	362.1	361.4	360.9	355.1	347.2	339.6	333.4
27.5°	334.3	342.0	348.4	349.7	354.6	353.8	352.8	347.2	339.5	331.0	324.8
28°	326.0	334.0	339.6	341.7	347.0	346.1	344.1	338.9	331.5	322.6	316.3
28.5°	317.8	325.4	330.5	333.4	339.3	338.0	335.5	330.5	323.3	314.0	307.8
29°	309.1	317.2	321.3	325.2	331.4	330.1	326.5	321.8	315.0	305.7	299.7
29.5°	300.6	308.5	311.8	317.0	323.4	321.9	317.3	312.8	306.5	297.4	291.5
30°	291.6	299.6	302.5	308.4	315.0	313.6	307.7	303.5	297.9	289.0	283.3
30.5°	282.9	290.2	293.3	299.4	306.7	305.0	298.3	294.1	289.0	280.7	275.0
31°	274.2	281.2	284.3	290.6	298.2	296.4	289.3	284.7	280.2	272.5	266.6
31.5°	265.6	271.7	275.6	281.6	289.8	287.6	280.4	275.2	271.2	264.3	258.2
32°	256.9	262.5	267.2	272.6	281.2	278.7	271.9	266.2	262.6	256.2	249.6
32.5°	248.5	253.1	258.8	263.7	273.0	269.9	263.4	257.4	253.4	247.9	241.1
33°	240.0	244.4	250.7	254.9	264.7	260.9	255.3	248.7	244.3	239.9	232.5
33.5°	231.5	235.3	242.5	246.0	256.3	252.1	247.2	240.2	235.3	231.5	223.8
34°	223.2	227.0	234.4	237.7	247.7	243.4	239.1	232.0	226.6	223.2	215.6
34.5°	214.7	218.3	226.0	229.4	239.1	235.0	231.0	223.8	217.6	214.8	207.3
35°	204.8	209.9	217.6	221.4	230.5	226.6	222.9	215.9	209.1	206.1	199.5
35.5°	197.0	201.9	209.5	213.5	222.0	218.4	214.7	207.7	200.8	197.7	192.0
36°	189.1	193.9	201.6	206.0	213.3	210.4	206.5	199.5	192.9	189.5	184.5
36.5°	181.3	185.9	193.7	198.2	204.8	202.3	198.4	191.4	184.7	181.3	177.1
37°	173.4	177.9	185.7	190.3	196.3	194.4	190.3	183.4	176.8	173.4	169.9
37.5°	165.3	169.9	177.8	182.5	188.0	186.6	182.3	175.2	169.2	165.4	162.6
38°	157.3	162.6	169.8	174.7	179.8	178.9	174.9	167.5	161.7	157.9	155.4
38.5°	149.6	155.1	162.5	166.9	171.6	171.1	167.3	159.9	154.2	150.6	148.1
39°	142.2	148.1	155.4	159.5	163.8	163.8	160.2	152.5	147.0	143.4	141.1
39.5°	134.9	140.9	148.2	152.0	156.0	156.2	153.2	145.5	139.9	136.1	134.1
40°	127.8	134.1	141.2	144.7	148.4	149.0	146.2	138.7	132.9	129.0	127.2
40.5°	121.0	127.6	134.3	137.5	141.1	141.4	139.2	131.9	125.9	122.2	120.5
41°	114.4	120.9	127.4	130.6	133.8	134.4	132.3	125.4	119.2	115.5	114.0
41.5°	107.9	114.5	120.5	123.8	126.9	127.2	125.5	119.0	112.7	108.9	107.8
42°	101.8	108.5	114.0	117.2	120.1	120.5	118.7	112.9	106.4	102.4	101.8
42.5°	96.0	102.4	107.5	110.7	113.6	113.6	111.9	106.8	100.4	96.3	95.8
43°	90.2	96.4	101.2	104.1	107.1	107.1	105.4	100.8	94.6	90.5	89.9
43.5°	84.5	90.4	95.1	97.7	100.8	100.6	99.1	94.9	88.8	84.8	84.1
44°	79.3	84.8	89.4	91.4	94.6	94.5	93.0	89.3	83.4	79.4	78.7
44.5°	74.2	79.3	83.7	85.4	88.6	88.4	87.0	83.6	78.2	74.3	73.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	69.2	74.1	78.2	79.5	83.0	82.6	81.3	78.3	73.2	69.2	67.8
45.5°	64.4	68.9	73.0	73.6	77.3	76.8	75.8	73.0	68.3	64.5	62.7
46°	60.0	64.0	67.8	68.2	71.9	71.3	70.4	67.9	63.5	59.9	58.1
46.5°	55.6	59.2	62.7	62.9	66.5	65.9	65.3	62.9	59.1	56.0	54.0
47°	51.5	54.9	57.8	57.9	61.6	60.8	60.3	58.2	55.2	52.0	49.8
47.5°	47.5	50.5	53.0	53.0	57.1	56.3	55.8	54.1	51.3	48.1	45.7
48°	43.9	46.5	48.5	48.5	52.6	51.8	51.4	49.9	47.3	44.1	41.6
48.5°	40.3	42.5	44.2	44.2	48.1	47.4	47.0	45.7	43.4	40.2	38.3
49°	37.0	38.9	40.1	40.2	43.6	42.9	42.6	41.5	39.5	36.9	35.2
49.5°	33.8	35.4	36.1	36.5	39.2	38.5	38.2	37.4	36.2	33.7	32.4
50°	30.8	32.1	32.5	32.8	35.3	34.8	34.5	33.9	33.0	30.9	29.8
50.5°	27.9	28.8	29.1	29.4	31.6	31.3	31.0	30.6	29.9	28.1	27.3
51°	25.2	26.0	26.0	26.3	28.3	28.1	27.8	27.5	27.0	25.6	25.0
51.5°	22.6	23.2	23.1	23.4	25.1	25.1	24.8	24.6	24.3	23.2	22.8
52°	20.3	20.7	20.5	20.7	22.2	22.2	22.0	21.9	21.7	20.9	20.7
52.5°	18.2	18.6	18.4	18.6	19.5	19.6	19.4	19.3	19.3	18.7	18.6
53°	16.2	16.5	16.3	16.5	17.0	17.2	17.1	17.0	16.9	16.6	16.6
53.5°	14.1	14.4	14.2	14.3	14.8	14.9	14.9	14.8	14.9	14.6	14.7
54°	12.1	12.3	12.2	12.2	12.7	12.9	12.9	12.7	12.9	12.8	12.9
54.5°	10.4	10.2	10.1	10.1	11.0	11.2	11.2	11.0	11.1	11.1	11.3
55°	9.0	8.8	8.6	8.7	9.5	9.7	9.6	9.5	9.5	9.6	9.8
55.5°	7.6	7.4	7.3	7.3	8.1	8.3	8.3	8.1	8.1	8.2	8.4
56°	6.3	6.1	6.0	6.0	6.8	6.9	6.9	7.2	7.1	7.3	7.1
56.5°	5.1	4.9	4.8	4.8	6.0	6.1	6.1	6.3	6.1	6.4	6.2
57°	4.1	4.0	3.9	4.0	5.2	5.3	5.3	5.4	5.1	5.5	5.4
57.5°	3.4	3.3	3.3	3.3	4.4	4.5	4.5	4.6	4.1	4.5	4.5
58°	2.9	2.8	2.8	2.8	3.6	3.7	3.7	3.7	3.2	3.6	3.7
58.5°	2.5	2.4	2.4	2.5	2.8	3.0	2.9	2.8	2.7	2.7	2.8
59°	2.2	2.1	2.1	2.2	2.5	2.6	2.6	2.5	2.4	2.4	2.5
59.5°	2.0	1.9	1.9	2.0	2.2	2.3	2.3	2.2	2.1	2.1	2.2
60°	1.8	1.8	1.8	1.8	2.0	2.1	2.1	2.0	1.9	1.9	1.9
60.5°	1.6	1.6	1.6	1.6	1.8	1.9	1.9	1.8	1.7	1.7	1.7
61°	1.5	1.4	1.4	1.5	1.7	1.7	1.7	1.6	1.5	1.5	1.6
61.5°	1.3	1.3	1.3	1.3	1.5	1.6	1.5	1.5	1.4	1.4	1.4
62°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.3	1.3
62.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.2	1.2	1.2	1.2
63°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.1
63.5°	0.9	0.9	0.9	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0
64°	0.9	0.8	0.9	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
64.5°	0.8	0.8	0.8	0.8	0.9	1.0	1.0	0.9	0.8	0.8	0.9
65°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
65.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7
66°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
66.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6
67°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6

TEST NUMBER: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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	0.6	0.5	0.5	0.6
68°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
68.5°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
69°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4
69.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
70°	0.3	0.3	0.3	0.4	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	0.4	0.4	0.3	0.4
71°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	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	0.2	0.2	0.2
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	0.2	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°	0.1	0.0	0.1	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	0.1	0.1	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	0.1	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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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	0.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
130.5°	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.1	0.1	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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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	0.2	0.2	0.2
142.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	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	0.3	0.3	0.3
153.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
174°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
174.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
176°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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: P1590518
CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	577.8	577.8	577.8	577.8	577.8	577.8
0.5°	577.8	577.4	577.6	577.8	577.8	577.9
1°	577.7	577.2	577.5	577.6	577.5	577.6
1.5°	577.4	577.0	577.2	577.2	577.1	577.3
2°	577.1	576.7	576.8	576.6	576.5	576.9
2.5°	576.5	576.3	576.3	576.0	575.9	576.4
3°	576.0	576.0	575.8	575.1	574.9	575.8
3.5°	575.3	575.4	575.1	574.1	573.7	574.9
4°	574.4	574.6	574.2	572.9	572.5	573.9
4.5°	573.2	573.7	573.2	571.6	571.1	572.6
5°	572.0	572.7	572.1	570.0	569.4	571.3
5.5°	570.8	571.5	570.8	568.5	567.8	569.7
6°	569.3	570.1	569.4	566.9	565.9	568.1
6.5°	567.7	568.7	567.9	565.3	564.3	566.2
7°	565.9	566.8	566.2	563.6	562.3	564.2
7.5°	564.1	564.8	564.2	561.9	560.5	562.0
8°	561.9	562.5	562.0	559.7	558.5	559.8
8.5°	559.7	559.8	559.4	557.7	556.3	557.3
9°	557.0	556.7	556.6	555.1	554.0	554.6
9.5°	554.1	553.2	553.3	552.4	551.3	551.6
10°	550.6	549.1	549.5	549.0	548.4	548.5
10.5°	546.7	544.6	545.1	545.5	545.2	545.1
11°	542.2	539.5	540.2	541.2	541.5	541.2
11.5°	537.0	533.8	534.7	536.4	537.3	537.0
12°	531.5	527.6	528.8	530.9	532.3	532.3
12.5°	525.5	521.5	522.7	525.3	527.1	527.4
13°	519.5	515.1	516.3	519.3	521.7	522.3
13.5°	513.3	508.9	509.9	513.1	516.1	517.0
14°	506.9	502.2	503.4	506.7	510.1	511.4
14.5°	500.4	495.7	496.9	500.5	504.0	505.9
15°	493.9	488.9	490.2	493.9	497.9	500.1
15.5°	487.5	482.5	483.8	487.7	491.6	494.2
16°	481.3	476.1	477.5	481.3	485.3	488.4
16.5°	474.9	470.1	471.3	475.2	479.4	482.5
17°	468.8	463.7	465.0	469.1	473.2	476.5
17.5°	462.8	457.5	459.0	462.9	467.2	470.4
18°	456.7	451.3	452.8	456.8	460.9	464.3
18.5°	450.5	445.1	446.6	450.8	454.8	458.2
19°	444.7	439.0	440.7	444.7	448.6	452.1
19.5°	439.0	432.8	434.8	438.8	442.6	446.1
20°	433.3	427.0	429.0	432.8	436.4	440.0
20.5°	427.6	420.9	423.0	427.1	430.4	434.0
21°	421.9	415.1	417.1	421.0	424.4	427.9
21.5°	416.2	409.0	411.3	415.1	418.2	421.9
22°	410.3	403.1	405.4	409.0	412.2	415.5

TEST NUMBER: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	404.3	397.0	399.2	402.9	405.8	409.2
23°	397.6	390.5	392.5	396.4	399.0	402.3
23.5°	390.5	383.4	385.6	389.5	392.2	395.4
24°	383.2	375.7	378.1	382.0	384.8	388.1
24.5°	375.7	367.4	370.5	374.1	377.0	380.7
25°	367.8	359.5	362.4	365.8	368.9	373.0
25.5°	359.6	351.4	354.2	357.3	360.7	365.4
26°	351.3	343.4	346.0	348.5	352.3	357.7
26.5°	342.7	335.1	337.6	339.6	343.7	350.3
27°	333.9	327.2	329.1	330.6	334.7	342.2
27.5°	324.9	319.1	320.2	321.6	326.0	334.3
28°	315.7	310.8	311.5	312.8	317.6	326.0
28.5°	306.7	302.4	302.8	304.0	309.3	317.8
29°	297.9	293.9	294.2	295.5	301.1	309.1
29.5°	289.3	285.1	285.5	287.0	293.0	300.6
30°	280.7	276.2	276.6	278.8	285.1	291.6
30.5°	272.0	267.0	267.8	270.4	276.9	282.9
31°	263.6	258.2	259.0	262.1	268.8	274.2
31.5°	255.2	249.2	250.3	253.7	260.5	265.6
32°	246.9	240.4	241.7	245.3	252.0	256.9
32.5°	238.7	231.8	233.2	237.0	243.5	248.5
33°	230.4	223.3	225.0	228.6	234.9	240.0
33.5°	222.1	214.7	216.9	220.0	226.1	231.5
34°	213.9	205.2	209.3	211.8	217.4	223.2
34.5°	205.8	197.5	201.4	204.0	209.0	214.7
35°	197.9	189.9	193.5	196.3	201.1	204.8
35.5°	189.9	182.2	185.5	188.5	193.2	197.0
36°	182.4	174.6	177.6	180.7	185.2	189.1
36.5°	174.7	167.2	169.7	173.0	177.3	181.3
37°	167.2	159.9	162.2	165.7	169.4	173.4
37.5°	159.8	152.8	154.8	158.4	162.0	165.3
38°	152.5	146.0	147.5	151.4	154.7	157.3
38.5°	145.5	139.3	140.4	144.3	147.3	149.6
39°	138.7	132.9	133.9	137.5	140.3	142.2
39.5°	131.9	126.3	127.4	130.5	133.1	134.9
40°	125.2	119.9	121.0	123.8	126.0	127.8
40.5°	118.8	113.9	114.8	117.0	118.9	121.0
41°	112.5	108.0	108.9	110.6	112.3	114.4
41.5°	106.5	102.3	103.1	104.3	105.6	107.9
42°	100.6	96.9	97.4	98.3	99.3	101.8
42.5°	94.7	91.6	91.9	92.2	93.1	96.0
43°	89.2	86.5	86.6	86.7	87.4	90.2
43.5°	83.9	81.5	81.4	81.0	81.7	84.5
44°	78.8	76.8	76.5	75.6	76.3	79.3
44.5°	73.8	72.1	71.8	70.3	71.0	74.2

TEST NUMBER: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	69.1	67.6	67.2	65.4	65.9	69.2
45.5°	64.5	63.3	62.9	60.5	61.2	64.4
46°	60.1	59.3	58.7	56.0	56.6	60.0
46.5°	56.0	55.2	54.7	51.7	52.3	55.6
47°	52.3	51.4	50.8	47.7	48.1	51.5
47.5°	48.5	47.7	47.1	44.0	44.4	47.5
48°	44.7	44.2	43.6	40.5	40.8	43.9
48.5°	41.0	40.9	40.2	37.4	37.6	40.3
49°	37.7	37.6	37.1	34.4	34.4	37.0
49.5°	34.5	34.6	34.0	31.7	31.7	33.8
50°	31.7	31.6	31.1	29.2	29.1	30.8
50.5°	28.9	28.8	28.3	26.7	26.6	27.9
51°	26.3	26.2	25.8	24.5	24.2	25.2
51.5°	23.8	23.6	23.3	22.3	22.1	22.6
52°	21.5	21.2	21.0	20.2	20.2	20.3
52.5°	19.3	19.2	19.0	18.3	18.2	18.2
53°	17.2	17.2	17.1	16.4	16.3	16.2
53.5°	15.3	15.2	15.1	14.5	14.3	14.1
54°	13.4	13.2	13.2	12.7	12.4	12.1
54.5°	11.6	11.2	11.2	11.0	10.7	10.4
55°	10.1	9.7	9.7	9.6	9.3	9.0
55.5°	8.7	8.3	8.4	8.2	8.0	7.6
56°	7.4	7.0	7.1	6.9	6.7	6.3
56.5°	6.5	5.7	5.9	5.7	5.5	5.1
57°	5.6	4.7	4.8	4.7	4.4	4.1
57.5°	4.7	3.9	4.0	3.9	3.7	3.4
58°	3.9	3.3	3.4	3.3	3.1	2.9
58.5°	3.0	2.9	3.0	2.9	2.7	2.5
59°	2.6	2.5	2.6	2.5	2.3	2.2
59.5°	2.3	2.3	2.3	2.2	2.1	2.0
60°	2.1	2.1	2.1	2.1	1.9	1.8
60.5°	1.8	1.9	1.9	1.9	1.7	1.6
61°	1.7	1.8	1.8	1.8	1.6	1.5
61.5°	1.5	1.6	1.6	1.6	1.4	1.3
62°	1.4	1.4	1.5	1.4	1.3	1.2
62.5°	1.3	1.3	1.4	1.3	1.2	1.1
63°	1.2	1.2	1.3	1.2	1.1	1.0
63.5°	1.1	1.1	1.2	1.1	1.0	0.9
64°	1.0	1.0	1.1	1.0	0.9	0.9
64.5°	0.9	1.0	1.0	1.0	0.9	0.8
65°	0.9	0.9	0.9	0.9	0.8	0.7
65.5°	0.8	0.8	0.9	0.8	0.7	0.7
66°	0.7	0.8	0.8	0.8	0.7	0.6
66.5°	0.7	0.7	0.7	0.7	0.6	0.6
67°	0.6	0.7	0.7	0.7	0.6	0.5

TEST NUMBER: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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°	0.6	0.6	0.6	0.6	0.5	0.5
68.5°	0.5	0.5	0.6	0.5	0.5	0.4
69°	0.5	0.5	0.5	0.5	0.4	0.4
69.5°	0.4	0.5	0.5	0.5	0.4	0.4
70°	0.4	0.4	0.5	0.4	0.4	0.3
70.5°	0.4	0.4	0.4	0.4	0.4	0.3
71°	0.4	0.4	0.4	0.4	0.3	0.3
71.5°	0.3	0.3	0.4	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.2
73°	0.3	0.3	0.3	0.3	0.2	0.2
73.5°	0.2	0.3	0.3	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	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.1
76°	0.2	0.2	0.2	0.2	0.1	0.1
76.5°	0.1	0.2	0.2	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	0.1
80°	0.1	0.1	0.1	0.1	0.1	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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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°	0.1	0.0	0.0	0.0	0.0	0.0
130°	0.1	0.1	0.1	0.1	0.0	0.0
130.5°	0.1	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	0.1	0.1	0.1	0.1
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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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°	0.2	0.1	0.1	0.1	0.1	0.1
142.5°	0.2	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°	0.3	0.1	0.1	0.1	0.1	0.1
153.5°	0.3	0.1	0.1	0.1	0.1	0.1
154°	0.3	0.1	0.1	0.1	0.1	0.1
154.5°	0.3	0.1	0.1	0.1	0.1	0.1
155°	0.3	0.1	0.1	0.2	0.2	0.2
155.5°	0.3	0.1	0.1	0.2	0.2	0.2
156°	0.3	0.1	0.1	0.2	0.2	0.2
156.5°	0.3	0.1	0.2	0.2	0.2	0.2
157°	0.3	0.1	0.2	0.2	0.2	0.2



TEST NUMBER: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.2	0.2	0.2	0.2	0.2
158°	0.3	0.2	0.2	0.2	0.2	0.2
158.5°	0.3	0.2	0.2	0.2	0.2	0.2
159°	0.3	0.2	0.2	0.2	0.2	0.2
159.5°	0.3	0.2	0.2	0.2	0.2	0.2
160°	0.3	0.2	0.2	0.2	0.2	0.2
160.5°	0.3	0.2	0.2	0.2	0.2	0.2
161°	0.3	0.2	0.2	0.2	0.2	0.2
161.5°	0.3	0.2	0.2	0.2	0.2	0.2
162°	0.3	0.2	0.2	0.2	0.2	0.2
162.5°	0.3	0.2	0.2	0.2	0.2	0.2
163°	0.3	0.2	0.2	0.2	0.2	0.2
163.5°	0.3	0.2	0.2	0.2	0.2	0.2
164°	0.3	0.2	0.2	0.2	0.2	0.2
164.5°	0.3	0.2	0.2	0.2	0.2	0.2
165°	0.3	0.2	0.2	0.2	0.2	0.2
165.5°	0.3	0.2	0.2	0.2	0.2	0.2
166°	0.3	0.2	0.2	0.2	0.2	0.2
166.5°	0.3	0.2	0.2	0.2	0.2	0.2
167°	0.3	0.2	0.2	0.2	0.2	0.2
167.5°	0.3	0.2	0.2	0.2	0.2	0.2
168°	0.3	0.2	0.2	0.2	0.2	0.2
168.5°	0.3	0.2	0.2	0.2	0.2	0.2
169°	0.3	0.2	0.2	0.2	0.2	0.2
169.5°	0.3	0.2	0.2	0.2	0.2	0.2
170°	0.3	0.2	0.2	0.2	0.2	0.2
170.5°	0.3	0.2	0.2	0.2	0.2	0.2
171°	0.3	0.2	0.2	0.2	0.2	0.2
171.5°	0.3	0.2	0.2	0.2	0.2	0.2
172°	0.3	0.2	0.2	0.2	0.2	0.2
172.5°	0.3	0.2	0.2	0.2	0.2	0.2
173°	0.3	0.2	0.2	0.2	0.2	0.2
173.5°	0.3	0.2	0.2	0.2	0.2	0.2
174°	0.3	0.2	0.2	0.2	0.2	0.2
174.5°	0.3	0.2	0.2	0.2	0.2	0.2
175°	0.3	0.2	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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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: P1590518

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3000K

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	0.3	1.4	0.7	1.7	2.0	1.3	2.3	1.7	2.6	3.0
	3H	0.3	1.2	0.7	1.5	1.9	1.2	2.1	1.6	2.5	2.8
	4H	0.2	1.0	0.6	1.4	1.8	1.2	2.0	1.6	2.4	2.7
	6H	0.1	0.9	0.5	1.2	1.6	1.1	1.8	1.5	2.2	2.6
	8H	0.0	0.8	0.5	1.2	1.6	1.0	1.7	1.4	2.1	2.5
	12H	0.0	0.7	0.4	1.1	1.5	0.9	1.6	1.4	2.0	2.5
4H	2H	0.2	1.0	0.6	1.4	1.8	1.1	1.9	1.5	2.3	2.7
	3H	0.1	0.8	0.5	1.2	1.6	1.1	1.7	1.5	2.1	2.6
	4H	0.0	0.6	0.5	1.1	1.5	1.0	1.6	1.4	2.0	2.4
	6H	0.0	0.5	0.4	0.9	1.4	0.9	1.4	1.3	1.8	2.3
	8H	0.0	0.4	0.4	0.8	1.3	0.8	1.3	1.3	1.7	2.2
	12H	0.0	0.2	0.3	0.7	1.2	0.7	1.2	1.2	1.6	2.1
8H	4H	0.0	0.4	0.4	0.8	1.3	0.8	1.3	1.3	1.7	2.2
	6H	0.0	0.2	0.3	0.7	1.2	0.7	1.1	1.2	1.6	2.1
	8H	0.0	0.0	0.2	0.6	1.1	0.6	1.0	1.2	1.5	2.0
	12H	0.0	0.0	0.2	0.4	1.0	0.6	0.9	1.1	1.4	2.0
12H	4H	0.0	0.2	0.3	0.7	1.2	0.7	1.2	1.2	1.6	2.1
	6H	0.0	0.1	0.2	0.5	1.1	0.6	1.0	1.2	1.4	2.0
	8H	0.0	0.0	0.2	0.4	1.0	0.6	0.9	1.1	1.4	2.0

(END OF REPORT)