

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: P1590517

Luminaire Tested: HCDLS510CSD4TRH-LO-2700K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590517
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-2700K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 500 Lumens 2700K

Light Source:
Ballast/Driver: -

Summary

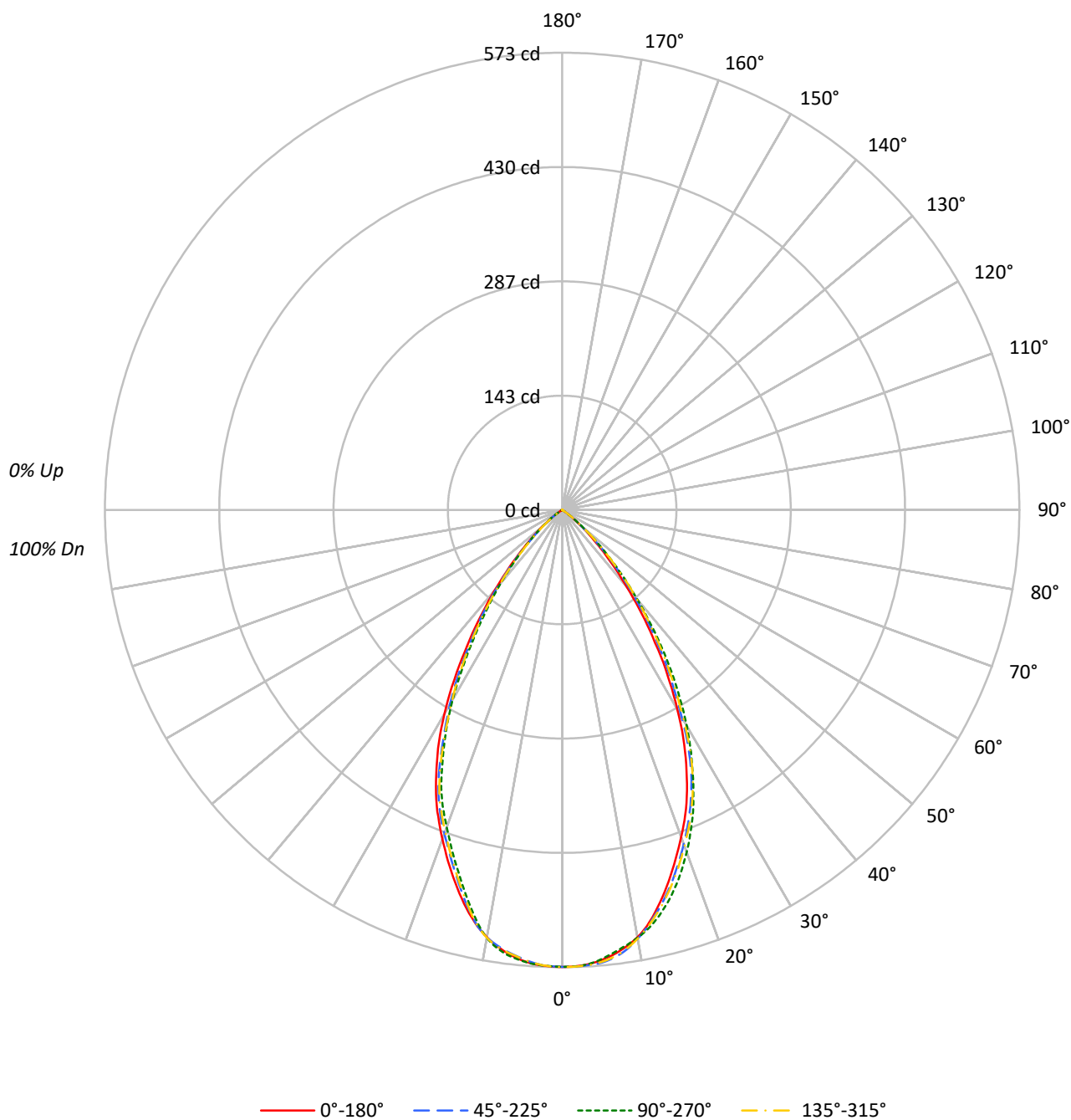
Lumens per Lamp: N/A
Luminaire Lumens: 560.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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°	70628	70628	70628	70628
5°	70105	69956	70192	70278
10°	68098	68185	68085	68173
15°	63299	65074	63516	61882
20°	57243	59882	57624	55550
25°	50315	52955	50914	48491
30°	41161	44466	42059	38997
35°	30567	34407	31215	28339
40°	20385	23685	21206	19145
45°	11966	14339	12647	11687
50°	5853	6716	6275	6025
55°	1914	2021	2043	2064
60°	444	493	469	518
65°	204	263	233	263
70°	108	144	144	144
75°	48	95	95	95
80°	0	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 14339 cd/sqm

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	9.5
10°-20°	138.7	24.8
20°-30°	169.4	30.3
30°-40°	129.1	23.0
40°-50°	57.5	10.3
50°-60°	10.4	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°	361.5	64.6
0°-40°	490.6	87.6
0°-60°	558.5	99.7
0°-90°	559.6	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	560.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	573	573	573	573	573	
5°	566	565	567	568	566	53
15°	496	510	497	485	496	138
25°	370	389	374	356	370	168
35°	203	228	207	188	203	127
45°	69	82	72	67	69	55
55°	9	9	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

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	572.6	572.6	572.6	572.6	572.6	572.6	572.6	572.6	572.6	572.6	572.6
0.5°	572.7	572.5	572.6	572.7	572.5	572.6	572.8	572.7	572.7	572.5	572.5
1°	572.5	572.5	572.6	572.7	572.5	572.6	572.7	572.7	572.5	572.3	572.3
1.5°	572.2	572.3	572.5	572.5	572.3	572.5	572.5	572.5	572.3	572.0	572.0
2°	571.8	572.0	572.3	572.3	572.0	572.1	572.3	572.3	571.9	571.5	571.6
2.5°	571.3	571.8	572.1	571.8	571.5	571.6	572.1	572.0	571.4	570.9	571.0
3°	570.7	571.5	571.7	571.2	570.7	571.0	571.6	571.6	570.9	570.0	570.1
3.5°	569.8	571.1	571.3	570.5	569.7	570.2	571.1	571.1	570.2	569.0	569.1
4°	568.8	570.6	570.9	569.5	568.4	569.1	570.5	570.6	569.3	567.7	567.8
4.5°	567.6	569.9	570.3	568.2	566.8	567.8	569.7	569.9	568.2	566.2	566.4
5°	566.2	569.1	569.3	566.7	565.0	566.1	568.6	569.1	566.9	564.5	564.8
5.5°	564.6	567.9	568.2	565.0	563.1	564.4	567.4	568.0	565.5	562.7	563.2
6°	563.0	566.5	566.8	563.2	561.1	562.5	566.0	566.7	563.7	560.8	561.5
6.5°	561.2	564.9	565.2	561.3	559.0	560.5	564.3	565.1	561.8	558.9	559.7
7°	559.2	562.9	563.3	559.3	557.0	558.5	562.4	563.3	559.8	556.9	557.9
7.5°	557.1	560.7	561.1	557.2	555.0	556.3	560.3	561.1	557.7	554.8	555.9
8°	554.9	558.3	558.6	554.8	552.9	554.1	557.9	558.6	555.2	552.7	553.9
8.5°	552.4	555.5	555.8	552.3	550.9	552.0	555.1	555.9	552.6	550.3	551.7
9°	549.7	552.5	552.7	549.8	548.8	549.5	552.1	552.8	549.9	547.9	549.3
9.5°	546.7	549.1	549.4	547.0	546.6	546.9	549.0	549.4	546.9	545.2	546.7
10°	543.7	545.5	545.7	544.0	544.4	544.2	545.5	545.7	543.6	542.4	543.7
10.5°	540.3	541.7	541.9	540.9	541.9	541.4	541.9	541.8	540.0	539.0	540.2
11°	536.4	537.6	537.8	537.5	539.2	538.2	538.0	537.8	536.3	535.5	536.3
11.5°	532.3	533.2	533.7	534.0	536.3	535.0	534.0	533.6	532.3	531.6	532.0
12°	527.6	528.6	529.3	530.0	533.2	531.6	530.0	529.2	528.0	527.0	527.0
12.5°	522.8	523.9	524.7	526.3	529.7	527.7	525.8	524.7	523.2	522.1	521.3
13°	517.7	519.1	520.2	522.2	526.2	524.0	521.4	519.8	518.6	517.0	515.9
13.5°	512.4	514.0	515.5	518.0	522.3	520.1	516.9	515.2	513.5	511.5	510.1
14°	506.9	508.8	510.8	513.6	518.2	515.8	512.3	510.1	508.4	506.0	504.0
14.5°	501.4	503.6	506.0	509.1	514.0	511.5	507.5	505.2	502.8	500.2	498.0
15°	495.7	498.3	500.9	504.4	509.6	506.9	502.9	500.0	497.4	494.3	491.7
15.5°	489.8	492.8	495.8	499.6	505.1	502.2	497.8	494.8	491.9	488.4	485.4
16°	484.0	487.2	490.6	494.4	500.3	497.3	492.7	489.3	486.1	482.2	479.2
16.5°	478.2	481.7	485.3	489.3	495.3	492.2	487.3	483.8	480.3	476.2	473.1
17°	472.3	476.1	479.8	484.1	490.2	487.0	481.9	478.2	474.4	470.2	467.0
17.5°	466.2	470.3	474.2	478.6	485.0	481.6	476.5	472.3	468.5	464.1	460.8
18°	460.1	464.5	468.5	473.0	479.4	476.2	470.8	466.6	462.7	458.1	454.8
18.5°	454.1	458.5	462.8	467.3	473.8	470.5	465.1	460.9	456.8	452.1	448.9
19°	448.1	452.6	457.2	461.6	468.0	464.8	459.6	455.1	450.6	446.2	442.9
19.5°	442.2	446.7	451.5	455.8	462.3	459.1	453.9	449.1	444.7	440.4	437.6
20°	436.1	440.7	445.7	450.0	456.2	453.3	448.3	443.5	439.0	434.6	431.9
20.5°	430.2	434.9	439.9	444.1	450.3	447.5	442.4	437.9	432.9	428.7	426.1
21°	424.1	428.8	433.9	438.0	444.2	441.4	436.7	432.1	426.8	422.9	420.4
21.5°	418.2	422.8	428.1	431.9	437.7	435.1	430.9	426.2	420.7	417.0	414.7
22°	411.9	416.6	422.0	425.5	431.2	428.7	425.1	420.4	414.7	411.2	408.4

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	405.6	410.6	415.9	419.3	424.7	422.4	419.3	414.6	409.1	404.7	402.2
23°	398.7	404.1	409.7	412.4	418.2	416.1	413.5	408.1	402.5	397.9	395.7
23.5°	391.9	397.7	403.4	405.9	411.7	409.8	407.0	401.8	395.6	391.0	388.7
24°	384.6	391.0	396.7	398.7	404.1	402.7	400.6	395.2	388.6	383.9	381.3
24.5°	377.3	384.0	390.3	391.8	396.7	395.6	394.0	388.4	381.4	376.4	373.5
25°	369.7	376.8	383.4	384.3	389.1	388.3	387.2	381.6	374.1	368.7	365.4
25.5°	362.2	369.6	376.5	377.2	381.7	381.0	380.1	374.6	366.7	360.8	357.0
26°	354.6	362.1	369.2	369.6	374.2	373.5	373.0	367.3	359.3	352.9	348.1
26.5°	347.2	354.5	361.7	362.0	366.5	365.9	365.4	359.7	351.7	344.8	339.2
27°	339.2	346.8	353.6	354.4	358.9	358.2	357.7	352.0	344.1	336.6	330.4
27.5°	331.3	339.0	345.3	346.6	351.5	350.7	349.7	344.1	336.5	328.1	321.9
28°	323.2	331.1	336.6	338.7	343.9	343.0	341.1	335.9	328.5	319.8	313.5
28.5°	315.0	322.5	327.6	330.5	336.2	335.0	332.5	327.6	320.5	311.3	305.0
29°	306.4	314.4	318.5	322.4	328.5	327.2	323.6	318.9	312.2	303.0	297.0
29.5°	298.0	305.8	309.0	314.2	320.6	319.1	314.5	310.0	303.8	294.7	288.9
30°	289.0	296.9	299.8	305.6	312.2	310.9	305.0	300.8	295.3	286.5	280.8
30.5°	280.4	287.7	290.7	296.8	304.0	302.3	295.7	291.5	286.4	278.2	272.6
31°	271.8	278.7	281.8	288.0	295.6	293.8	286.7	282.2	277.8	270.1	264.2
31.5°	263.2	269.3	273.2	279.1	287.2	285.1	277.9	272.8	268.8	262.0	255.9
32°	254.6	260.2	264.8	270.2	278.7	276.3	269.5	263.8	260.3	254.0	247.4
32.5°	246.3	250.8	256.5	261.4	270.6	267.5	261.0	255.1	251.1	245.8	238.9
33°	237.9	242.3	248.5	252.6	262.3	258.6	253.1	246.5	242.2	237.8	230.4
33.5°	229.5	233.2	240.4	243.9	254.0	249.8	245.0	238.1	233.2	229.5	221.8
34°	221.2	225.0	232.3	235.6	245.5	241.3	237.0	229.9	224.6	221.2	213.7
34.5°	212.8	216.3	224.0	227.4	237.0	232.9	229.0	221.8	215.7	212.9	205.5
35°	203.0	208.1	215.7	219.4	228.5	224.6	220.9	214.0	207.3	204.3	197.8
35.5°	195.2	200.1	207.7	211.6	220.1	216.5	212.8	205.9	199.1	196.0	190.3
36°	187.4	192.2	199.8	204.2	211.4	208.5	204.7	197.8	191.2	187.8	182.9
36.5°	179.7	184.2	191.9	196.4	203.0	200.5	196.6	189.7	183.0	179.7	175.5
37°	171.9	176.3	184.1	188.6	194.6	192.7	188.6	181.8	175.3	171.8	168.4
37.5°	163.8	168.4	176.2	180.9	186.3	184.9	180.7	173.7	167.7	164.0	161.2
38°	155.9	161.1	168.3	173.1	178.2	177.3	173.3	166.0	160.2	156.5	154.0
38.5°	148.3	153.8	161.0	165.5	170.1	169.6	165.9	158.5	152.8	149.2	146.8
39°	141.0	146.8	154.1	158.1	162.3	162.4	158.8	151.2	145.7	142.1	139.8
39.5°	133.7	139.7	146.9	150.7	154.6	154.8	151.8	144.2	138.7	134.9	132.9
40°	126.6	132.9	139.9	143.4	147.1	147.7	144.9	137.5	131.7	127.9	126.1
40.5°	119.9	126.4	133.1	136.3	139.9	140.2	137.9	130.8	124.8	121.1	119.4
41°	113.4	119.9	126.3	129.4	132.6	133.2	131.1	124.3	118.1	114.5	113.0
41.5°	107.0	113.5	119.4	122.7	125.8	126.1	124.4	118.0	111.7	108.0	106.9
42°	100.9	107.5	113.0	116.2	119.0	119.4	117.6	111.9	105.5	101.5	100.9
42.5°	95.1	101.5	106.6	109.7	112.6	112.6	110.9	105.8	99.5	95.5	94.9
43°	89.4	95.6	100.4	103.2	106.2	106.2	104.5	99.9	93.8	89.7	89.1
43.5°	83.8	89.6	94.2	96.8	99.9	99.7	98.2	94.1	88.0	84.0	83.3
44°	78.6	84.0	88.6	90.6	93.7	93.7	92.2	88.5	82.7	78.7	78.0
44.5°	73.5	78.6	82.9	84.6	87.8	87.6	86.2	82.9	77.5	73.6	72.4

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	68.6	73.4	77.5	78.7	82.2	81.9	80.6	77.6	72.5	68.6	67.2
45.5°	63.8	68.3	72.3	73.0	76.6	76.1	75.1	72.4	67.7	63.9	62.1
46°	59.5	63.5	67.2	67.6	71.2	70.7	69.8	67.3	63.0	59.4	57.6
46.5°	55.1	58.7	62.1	62.3	65.9	65.3	64.8	62.4	58.6	55.5	53.5
47°	51.1	54.4	57.3	57.3	61.1	60.2	59.7	57.7	54.7	51.6	49.4
47.5°	47.1	50.0	52.6	52.5	56.6	55.8	55.3	53.6	50.8	47.7	45.3
48°	43.5	46.1	48.1	48.1	52.2	51.4	51.0	49.4	46.9	43.7	41.3
48.5°	39.9	42.1	43.8	43.8	47.7	47.0	46.6	45.3	43.0	39.8	38.0
49°	36.7	38.5	39.7	39.9	43.2	42.6	42.2	41.2	39.2	36.6	34.9
49.5°	33.5	35.1	35.8	36.1	38.8	38.2	37.8	37.1	35.8	33.5	32.1
50°	30.5	31.8	32.2	32.5	35.0	34.5	34.2	33.6	32.7	30.6	29.5
50.5°	27.6	28.6	28.8	29.2	31.3	31.0	30.7	30.3	29.7	27.9	27.1
51°	25.0	25.8	25.8	26.1	28.0	27.9	27.5	27.2	26.8	25.3	24.7
51.5°	22.4	23.0	22.9	23.2	24.9	24.8	24.6	24.4	24.1	23.0	22.6
52°	20.1	20.5	20.3	20.5	22.0	22.0	21.8	21.7	21.5	20.7	20.5
52.5°	18.1	18.4	18.2	18.4	19.3	19.4	19.3	19.2	19.1	18.5	18.4
53°	16.0	16.4	16.2	16.3	16.9	17.0	16.9	16.8	16.8	16.4	16.5
53.5°	14.0	14.3	14.1	14.2	14.6	14.8	14.7	14.6	14.7	14.5	14.6
54°	12.0	12.2	12.0	12.1	12.6	12.8	12.8	12.6	12.7	12.7	12.8
54.5°	10.3	10.1	10.0	10.0	10.9	11.1	11.1	10.9	11.0	11.0	11.2
55°	8.9	8.7	8.6	8.6	9.4	9.6	9.6	9.4	9.5	9.5	9.7
55.5°	7.6	7.4	7.2	7.2	8.1	8.2	8.2	8.0	8.1	8.1	8.3
56°	6.3	6.0	5.9	5.9	6.7	6.8	6.8	7.2	7.1	7.2	7.0
56.5°	5.1	4.9	4.8	4.8	5.9	6.0	6.0	6.3	6.1	6.3	6.1
57°	4.1	4.0	3.9	3.9	5.2	5.2	5.2	5.4	5.1	5.4	5.3
57.5°	3.4	3.3	3.2	3.3	4.4	4.5	4.5	4.5	4.1	4.5	4.5
58°	2.9	2.8	2.7	2.8	3.6	3.7	3.7	3.7	3.1	3.6	3.6
58.5°	2.5	2.4	2.4	2.4	2.8	2.9	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	2.4	2.4	2.3	2.4
59.5°	2.0	1.9	1.9	2.0	2.2	2.3	2.3	2.2	2.1	2.1	2.1
60°	1.8	1.8	1.7	1.8	2.0	2.1	2.0	1.9	1.9	1.8	1.9
60.5°	1.6	1.6	1.6	1.6	1.8	1.9	1.8	1.7	1.7	1.7	1.7
61°	1.4	1.4	1.4	1.5	1.6	1.7	1.7	1.6	1.5	1.5	1.5
61.5°	1.3	1.3	1.3	1.3	1.5	1.6	1.5	1.4	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	1.2	1.3
62.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.2	1.2	1.1	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	0.8	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9
64.5°	0.8	0.8	0.8	0.8	0.9	1.0	0.9	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	0.7	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	0.6	0.7	0.7	0.6	0.6	0.6	0.6

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	0.5	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	0.3	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	0.2	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	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.3	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	0.2	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	0.2	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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	0.1	0.1	0.1
130.5°	0.0	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	0.0	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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	0.2	0.2
142.5°	0.1	0.1	0.1	0.1	0.1	0.1	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	0.2	0.3	0.2
153.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	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°	0.1	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	0.1	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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.2	0.2	0.2	0.1	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	0.2	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	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	572.6	572.6	572.6	572.6	572.6	572.6
0.5°	572.7	572.3	572.5	572.7	572.6	572.7
1°	572.5	572.1	572.3	572.4	572.4	572.5
1.5°	572.3	571.9	572.1	572.1	572.0	572.2
2°	572.0	571.6	571.7	571.5	571.4	571.8
2.5°	571.4	571.2	571.2	570.9	570.8	571.3
3°	570.9	570.9	570.7	570.0	569.8	570.7
3.5°	570.2	570.3	570.0	569.0	568.7	569.8
4°	569.3	569.5	569.1	567.8	567.4	568.8
4.5°	568.2	568.7	568.1	566.5	566.0	567.6
5°	567.0	567.6	567.0	565.0	564.4	566.2
5.5°	565.7	566.5	565.8	563.5	562.7	564.6
6°	564.2	565.1	564.4	561.9	560.9	563.0
6.5°	562.6	563.6	562.8	560.3	559.3	561.2
7°	560.9	561.8	561.2	558.6	557.4	559.2
7.5°	559.1	559.8	559.2	556.9	555.5	557.1
8°	557.0	557.5	557.0	554.8	553.5	554.9
8.5°	554.7	554.9	554.5	552.7	551.4	552.4
9°	552.1	551.8	551.7	550.2	549.1	549.7
9.5°	549.2	548.4	548.4	547.5	546.4	546.7
10°	545.7	544.3	544.6	544.2	543.6	543.7
10.5°	541.8	539.8	540.3	540.7	540.4	540.3
11°	537.4	534.7	535.4	536.4	536.7	536.4
11.5°	532.3	529.0	529.9	531.7	532.5	532.3
12°	526.8	523.0	524.1	526.2	527.6	527.6
12.5°	520.9	516.9	518.0	520.6	522.4	522.8
13°	514.9	510.5	511.7	514.7	517.1	517.7
13.5°	508.7	504.3	505.4	508.5	511.5	512.4
14°	502.4	497.7	498.9	502.3	505.6	506.9
14.5°	496.0	491.3	492.5	496.1	499.6	501.4
15°	489.5	484.6	485.8	489.5	493.5	495.7
15.5°	483.2	478.2	479.5	483.4	487.2	489.8
16°	477.0	471.9	473.3	477.1	481.0	484.0
16.5°	470.7	465.9	467.1	471.0	475.1	478.2
17°	464.7	459.6	460.9	464.9	469.0	472.3
17.5°	458.7	453.5	455.0	458.8	463.0	466.2
18°	452.7	447.3	448.8	452.7	456.8	460.1
18.5°	446.5	441.2	442.7	446.8	450.8	454.1
19°	440.8	435.1	436.8	440.8	444.6	448.1
19.5°	435.1	429.0	430.9	434.9	438.7	442.2
20°	429.4	423.2	425.2	429.0	432.6	436.1
20.5°	423.8	417.1	419.3	423.3	426.6	430.2
21°	418.1	411.4	413.5	417.3	420.6	424.1
21.5°	412.5	405.4	407.6	411.4	414.5	418.2
22°	406.7	399.6	401.8	405.4	408.5	411.9

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	400.7	393.5	395.6	399.4	402.2	405.6
23°	394.1	387.0	389.0	392.9	395.4	398.7
23.5°	387.0	380.0	382.1	386.0	388.7	391.9
24°	379.8	372.4	374.8	378.6	381.4	384.6
24.5°	372.4	364.1	367.2	370.7	373.7	377.3
25°	364.6	356.3	359.2	362.6	365.6	369.7
25.5°	356.4	348.3	351.1	354.1	357.5	362.2
26°	348.2	340.4	342.9	345.4	349.2	354.6
26.5°	339.7	332.1	334.6	336.6	340.7	347.2
27°	330.9	324.3	326.1	327.7	331.8	339.2
27.5°	322.0	316.3	317.4	318.8	323.1	331.3
28°	312.9	308.0	308.7	310.0	314.8	323.2
28.5°	304.0	299.7	300.2	301.3	306.5	315.0
29°	295.3	291.3	291.6	292.9	298.4	306.4
29.5°	286.7	282.6	283.0	284.5	290.4	298.0
30°	278.2	273.8	274.2	276.3	282.6	289.0
30.5°	269.6	264.7	265.4	268.0	274.5	280.4
31°	261.3	255.9	256.7	259.7	266.4	271.8
31.5°	253.0	247.0	248.0	251.5	258.2	263.2
32°	244.8	238.3	239.5	243.2	249.7	254.6
32.5°	236.6	229.7	231.1	234.9	241.3	246.3
33°	228.4	221.4	223.0	226.6	232.8	237.9
33.5°	220.1	212.8	215.0	218.0	224.1	229.5
34°	212.0	203.3	207.4	210.0	215.5	221.2
34.5°	203.9	195.8	199.6	202.2	207.2	212.8
35°	196.1	188.2	191.8	194.5	199.3	203.0
35.5°	188.2	180.6	183.9	186.8	191.5	195.2
36°	180.7	173.1	176.1	179.1	183.6	187.4
36.5°	173.2	165.7	168.2	171.4	175.7	179.7
37°	165.7	158.5	160.8	164.2	167.9	171.9
37.5°	158.4	151.5	153.4	157.0	160.6	163.8
38°	151.2	144.8	146.2	150.1	153.3	155.9
38.5°	144.3	138.1	139.1	143.1	146.0	148.3
39°	137.5	131.7	132.7	136.2	139.0	141.0
39.5°	130.8	125.2	126.2	129.3	131.9	133.7
40°	124.1	118.9	119.9	122.7	124.9	126.6
40.5°	117.7	112.9	113.8	116.0	117.9	119.9
41°	111.5	107.1	107.9	109.6	111.3	113.4
41.5°	105.5	101.4	102.1	103.4	104.7	107.0
42°	99.7	96.0	96.5	97.4	98.4	100.9
42.5°	93.9	90.8	91.1	91.3	92.3	95.1
43°	88.4	85.8	85.8	85.9	86.6	89.4
43.5°	83.1	80.8	80.7	80.3	81.0	83.8
44°	78.1	76.1	75.9	74.9	75.6	78.6
44.5°	73.2	71.5	71.2	69.7	70.4	73.5

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	68.5	67.0	66.6	64.8	65.4	68.6
45.5°	63.9	62.8	62.3	60.0	60.6	63.8
46°	59.6	58.7	58.2	55.5	56.1	59.5
46.5°	55.5	54.7	54.2	51.2	51.8	55.1
47°	51.8	50.9	50.4	47.3	47.7	51.1
47.5°	48.1	47.3	46.7	43.6	44.0	47.1
48°	44.3	43.8	43.2	40.2	40.5	43.5
48.5°	40.6	40.5	39.9	37.0	37.3	39.9
49°	37.3	37.3	36.7	34.1	34.1	36.7
49.5°	34.2	34.3	33.7	31.5	31.4	33.5
50°	31.4	31.4	30.8	28.9	28.8	30.5
50.5°	28.6	28.6	28.1	26.5	26.4	27.6
51°	26.1	25.9	25.5	24.2	24.0	25.0
51.5°	23.6	23.4	23.1	22.1	21.9	22.4
52°	21.4	21.0	20.8	20.0	20.0	20.1
52.5°	19.1	19.0	18.9	18.1	18.1	18.1
53°	17.1	17.1	16.9	16.3	16.1	16.0
53.5°	15.1	15.1	15.0	14.4	14.2	14.0
54°	13.3	13.1	13.1	12.5	12.3	12.0
54.5°	11.5	11.1	11.1	10.9	10.6	10.3
55°	10.0	9.6	9.7	9.5	9.2	8.9
55.5°	8.6	8.3	8.3	8.2	7.9	7.6
56°	7.3	6.9	7.0	6.9	6.6	6.3
56.5°	6.4	5.7	5.8	5.7	5.4	5.1
57°	5.6	4.7	4.8	4.6	4.4	4.1
57.5°	4.7	3.9	4.0	3.9	3.6	3.4
58°	3.8	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	2.2	2.3	2.2	2.1	2.0
60°	2.0	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	1.7	1.8	1.7	1.6	1.4
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	0.9	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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	0.6	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	0.4	0.4	0.4	0.3
70.5°	0.4	0.4	0.4	0.4	0.3	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	0.1
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	0.1	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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	0.0	0.0	0.0
130.5°	0.1	0.1	0.1	0.1	0.1	0.0
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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	0.1	0.1	0.1
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	0.1	0.2	0.2	0.2
157°	0.3	0.1	0.2	0.2	0.2	0.2

TEST NUMBER: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.1	0.2	0.2	0.2	0.2
158°	0.3	0.1	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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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: P1590517

CATALOG NUMBER: HCDLS510CSD4TRH-LO-2700K

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	2.4	1.7	2.7	3.0
	3H	0.2	1.2	0.6	1.5	1.9	1.3	2.2	1.6	2.5	2.9
	4H	0.2	1.0	0.6	1.4	1.8	1.2	2.0	1.6	2.4	2.8
	6H	0.1	0.9	0.5	1.2	1.6	1.1	1.9	1.5	2.2	2.6
	8H	0.0	0.7	0.5	1.1	1.6	1.0	1.8	1.5	2.1	2.6
	12H	0.0	0.7	0.4	1.0	1.5	1.0	1.7	1.4	2.0	2.5
4H	2H	0.1	1.0	0.5	1.3	1.7	1.1	2.0	1.5	2.3	2.7
	3H	0.1	0.8	0.5	1.2	1.6	1.1	1.8	1.5	2.2	2.6
	4H	0.0	0.6	0.5	1.0	1.5	1.0	1.6	1.4	2.0	2.5
	6H	0.0	0.4	0.4	0.9	1.4	0.9	1.4	1.4	1.9	2.3
	8H	0.0	0.3	0.3	0.8	1.3	0.8	1.3	1.3	1.8	2.2
	12H	0.0	0.2	0.3	0.7	1.2	0.8	1.2	1.3	1.7	2.1
8H	4H	0.0	0.3	0.3	0.8	1.3	0.8	1.3	1.3	1.8	2.2
	6H	0.0	0.1	0.3	0.6	1.1	0.7	1.1	1.2	1.6	2.1
	8H	0.0	0.0	0.2	0.5	1.0	0.6	1.0	1.2	1.5	2.0
	12H	0.0	0.0	0.1	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	0.8	1.2	1.3	1.7	2.1
	6H	0.0	0.0	0.2	0.5	1.0	0.6	1.0	1.2	1.5	2.0
	8H	0.0	0.0	0.1	0.4	1.0	0.6	0.9	1.1	1.4	2.0

(END OF REPORT)