

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: P1590504

Luminaire Tested: HCDLS510CSD4TRC-LO-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590504
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: HCDLS510CSD4TRC-LO-3500K
Description: 4" Selectable Round Trim + Specular Clear 500 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

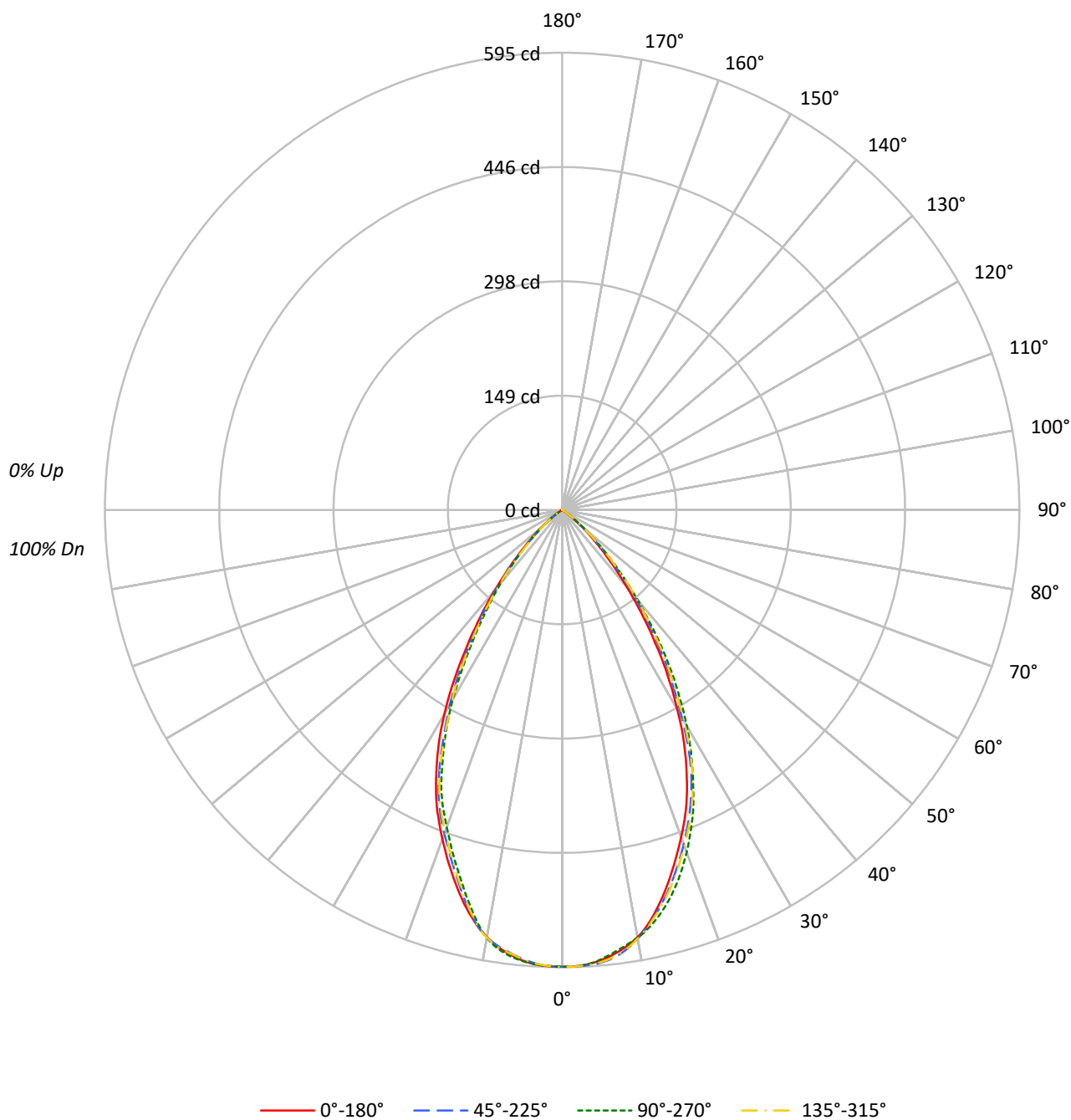
Lumens per Lamp: N/A
Luminaire Lumens: 581.4 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	73329	73329	73329	73329
5°	72780	72631	72866	72965
10°	70703	70790	70678	70778
15°	65713	67564	65943	64244
20°	59435	62166	59816	57663
25°	52234	54983	52860	50342
30°	42742	46175	43668	40492
35°	31727	35717	32404	29423
40°	21174	24587	22011	19869
45°	12420	14897	13135	12141
50°	6083	6966	6505	6256
55°	1978	2107	2107	2129
60°	469	518	469	543
65°	233	263	233	263
70°	144	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: 14897 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	9.5
10°-20°	144.0	24.8
20°-30°	175.9	30.3
30°-40°	134.0	23.0
40°-50°	59.8	10.3
50°-60°	10.8	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°	375.3	64.6
0°-40°	509.3	87.6
0°-60°	579.9	99.7
0°-90°	581.0	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	581.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	594	594	594	594	594	
5°	588	587	588	589	588	55
15°	515	529	516	503	515	144
25°	384	404	388	370	384	174
35°	211	237	215	195	211	132
45°	71	85	75	70	71	57
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°	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5
0.5°	594.6	594.4	594.5	594.6	594.4	594.5	594.7	594.6	594.6	594.4	594.4
1°	594.4	594.4	594.5	594.6	594.4	594.5	594.6	594.6	594.4	594.2	594.2
1.5°	594.1	594.2	594.4	594.4	594.2	594.4	594.4	594.4	594.2	593.9	593.9
2°	593.6	593.8	594.2	594.2	593.8	594.0	594.2	594.2	593.8	593.3	593.4
2.5°	593.1	593.6	594.0	593.7	593.3	593.5	594.0	593.8	593.3	592.7	592.8
3°	592.5	593.3	593.6	593.1	592.5	592.9	593.5	593.5	592.7	591.8	591.9
3.5°	591.6	593.0	593.2	592.3	591.5	592.0	592.9	593.0	592.0	590.7	590.8
4°	590.6	592.4	592.7	591.2	590.1	590.9	592.3	592.4	591.0	589.4	589.5
4.5°	589.3	591.7	592.1	589.9	588.4	589.5	591.4	591.7	589.9	587.8	588.1
5°	587.8	590.8	591.0	588.3	586.6	587.7	590.3	590.9	588.5	586.1	586.4
5.5°	586.2	589.6	589.9	586.6	584.6	586.0	589.0	589.7	587.1	584.2	584.8
6°	584.6	588.2	588.5	584.7	582.5	584.0	587.6	588.4	585.3	582.3	582.9
6.5°	582.6	586.5	586.9	582.8	580.4	581.9	585.9	586.7	583.3	580.3	581.1
7°	580.6	584.4	584.8	580.7	578.3	579.9	583.9	584.8	581.2	578.1	579.2
7.5°	578.3	582.2	582.5	578.4	576.2	577.6	581.7	582.6	579.0	576.0	577.2
8°	576.1	579.6	579.9	576.0	574.1	575.3	579.2	579.9	576.5	573.8	575.1
8.5°	573.5	576.8	577.0	573.4	571.9	573.1	576.4	577.1	573.7	571.3	572.8
9°	570.7	573.6	573.8	570.8	569.7	570.5	573.2	573.9	570.9	568.8	570.3
9.5°	567.6	570.1	570.4	567.9	567.5	567.8	569.9	570.4	567.8	566.1	567.6
10°	564.5	566.4	566.6	564.8	565.2	565.0	566.3	566.6	564.3	563.1	564.5
10.5°	560.9	562.4	562.6	561.5	562.6	562.0	562.6	562.5	560.6	559.6	560.8
11°	556.9	558.1	558.3	558.0	559.8	558.8	558.6	558.3	556.8	556.0	556.8
11.5°	552.6	553.5	554.1	554.4	556.8	555.5	554.4	554.0	552.6	551.9	552.3
12°	547.7	548.8	549.6	550.3	553.6	551.9	550.3	549.4	548.2	547.2	547.1
12.5°	542.7	543.9	544.8	546.4	549.9	547.9	545.9	544.7	543.1	542.1	541.3
13°	537.5	538.9	540.1	542.1	546.3	544.0	541.3	539.7	538.4	536.7	535.6
13.5°	532.0	533.6	535.2	537.8	542.3	540.0	536.7	534.8	533.1	531.1	529.6
14°	526.3	528.3	530.3	533.2	538.0	535.5	531.9	529.6	527.8	525.3	523.3
14.5°	520.6	522.8	525.3	528.6	533.6	531.0	526.9	524.5	522.1	519.3	517.0
15°	514.6	517.3	520.0	523.7	529.1	526.2	522.1	519.1	516.4	513.2	510.5
15.5°	508.5	511.6	514.8	518.7	524.4	521.4	516.8	513.7	510.7	507.1	503.9
16°	502.5	505.8	509.3	513.2	519.4	516.3	511.6	508.0	504.7	500.7	497.5
16.5°	496.5	500.1	503.8	508.0	514.3	511.0	506.0	502.3	498.7	494.4	491.2
17°	490.3	494.3	498.2	502.6	509.0	505.6	500.3	496.4	492.6	488.1	484.8
17.5°	484.0	488.3	492.3	496.9	503.5	500.0	494.7	490.4	486.4	481.9	478.5
18°	477.7	482.2	486.4	491.1	497.7	494.4	488.8	484.4	480.4	475.6	472.2
18.5°	471.5	476.0	480.5	485.2	491.9	488.5	482.9	478.5	474.2	469.4	466.0
19°	465.3	469.9	474.7	479.3	485.8	482.6	477.1	472.5	467.8	463.3	459.8
19.5°	459.1	463.8	468.7	473.2	479.9	476.6	471.3	466.3	461.7	457.2	454.3
20°	452.8	457.6	462.7	467.2	473.6	470.7	465.4	460.4	455.7	451.2	448.4
20.5°	446.6	451.5	456.7	461.1	467.5	464.6	459.3	454.6	449.4	445.1	442.4
21°	440.3	445.2	450.5	454.8	461.1	458.2	453.3	448.6	443.1	439.0	436.5
21.5°	434.1	439.0	444.5	448.4	454.4	451.7	447.3	442.5	436.8	433.0	430.5
22°	427.6	432.5	438.1	441.8	447.6	445.1	441.3	436.5	430.5	426.9	424.0

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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°	421.0	426.3	431.7	435.3	440.9	438.6	435.3	430.4	424.7	420.2	417.5
23°	413.9	419.5	425.3	428.2	434.1	432.0	429.3	423.7	417.9	413.1	410.8
23.5°	406.8	412.9	418.8	421.5	427.4	425.4	422.5	417.1	410.8	405.9	403.6
24°	399.3	405.9	411.9	414.0	419.5	418.1	415.9	410.3	403.4	398.6	395.9
24.5°	391.7	398.7	405.2	406.8	411.9	410.7	409.0	403.3	396.0	390.7	387.8
25°	383.8	391.2	398.1	399.0	404.0	403.2	401.9	396.1	388.4	382.8	379.4
25.5°	376.0	383.7	390.9	391.6	396.2	395.5	394.6	388.9	380.8	374.6	370.6
26°	368.1	375.9	383.3	383.8	388.5	387.8	387.2	381.4	373.1	366.4	361.4
26.5°	360.4	368.1	375.6	375.9	380.6	379.9	379.4	373.4	365.1	358.0	352.2
27°	352.1	360.0	367.2	367.9	372.6	371.9	371.3	365.4	357.2	349.4	343.1
27.5°	344.0	351.9	358.5	359.8	364.9	364.1	363.0	357.2	349.3	340.6	334.2
28°	335.5	343.7	349.5	351.6	357.1	356.1	354.1	348.8	341.1	332.0	325.5
28.5°	327.0	334.9	340.1	343.1	349.1	347.8	345.2	340.1	332.7	323.2	316.7
29°	318.1	326.4	330.6	334.7	341.1	339.7	336.0	331.1	324.2	314.5	308.4
29.5°	309.4	317.5	320.8	326.2	332.8	331.3	326.5	321.8	315.4	306.0	300.0
30°	300.1	308.3	311.2	317.3	324.2	322.7	316.7	312.3	306.6	297.4	291.6
30.5°	291.1	298.7	301.8	308.1	315.6	313.8	307.0	302.6	297.4	288.8	283.0
31°	282.1	289.4	292.6	299.0	306.9	305.0	297.7	292.9	288.4	280.4	274.3
31.5°	273.3	279.6	283.6	289.8	298.2	296.0	288.5	283.2	279.1	272.0	265.6
32°	264.3	270.1	275.0	280.5	289.4	286.8	279.8	273.9	270.3	263.7	256.8
32.5°	255.7	260.4	266.3	271.4	280.9	277.8	271.0	264.8	260.7	255.1	248.1
33°	247.0	251.5	258.0	262.3	272.4	268.5	262.8	255.9	251.4	246.9	239.2
33.5°	238.3	242.1	249.5	253.2	263.7	259.4	254.3	247.2	242.1	238.3	230.3
34°	229.7	233.5	241.2	244.6	254.9	250.5	246.1	238.7	233.2	229.7	221.9
34.5°	220.9	224.6	232.5	236.1	246.0	241.8	237.7	230.3	224.0	221.0	213.3
35°	210.7	216.0	223.9	227.8	237.2	233.2	229.4	222.2	215.2	212.1	205.3
35.5°	202.7	207.8	215.6	219.7	228.5	224.8	220.9	213.8	206.7	203.5	197.5
36°	194.6	199.5	207.4	212.0	219.5	216.5	212.5	205.3	198.5	195.0	189.9
36.5°	186.5	191.3	199.3	203.9	210.7	208.1	204.1	197.0	190.0	186.6	182.2
37°	178.4	183.0	191.1	195.9	202.0	200.0	195.8	188.7	182.0	178.4	174.8
37.5°	170.1	174.8	182.9	187.8	193.4	192.0	187.6	180.3	174.1	170.2	167.3
38°	161.9	167.3	174.7	179.8	185.0	184.1	180.0	172.3	166.4	162.5	159.9
38.5°	153.9	159.6	167.2	171.8	176.6	176.1	172.2	164.5	158.7	154.9	152.4
39°	146.3	152.4	159.9	164.1	168.5	168.6	164.9	156.9	151.3	147.6	145.2
39.5°	138.8	145.0	152.5	156.4	160.5	160.8	157.6	149.7	144.0	140.0	138.0
40°	131.5	138.0	145.3	148.9	152.7	153.3	150.4	142.7	136.7	132.8	130.9
40.5°	124.5	131.3	138.2	141.5	145.2	145.5	143.2	135.7	129.6	125.7	124.0
41°	117.7	124.5	131.1	134.4	137.7	138.3	136.1	129.0	122.6	118.8	117.3
41.5°	111.1	117.8	124.0	127.4	130.6	130.9	129.1	122.5	116.0	112.1	110.9
42°	104.8	111.7	117.3	120.6	123.6	123.9	122.1	116.2	109.5	105.4	104.8
42.5°	98.7	105.4	110.7	113.9	116.9	116.9	115.2	109.9	103.3	99.1	98.5
43°	92.8	99.2	104.2	107.1	110.2	110.2	108.5	103.8	97.3	93.1	92.5
43.5°	87.0	93.1	97.8	100.5	103.7	103.5	102.0	97.7	91.4	87.3	86.5
44°	81.6	87.2	92.0	94.1	97.3	97.3	95.7	91.9	85.9	81.7	81.0
44.5°	76.3	81.6	86.1	87.8	91.2	90.9	89.5	86.0	80.5	76.4	75.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	71.2	76.2	80.5	81.8	85.4	85.0	83.7	80.5	75.3	71.3	69.8
45.5°	66.3	70.9	75.1	75.8	79.5	79.0	78.0	75.1	70.3	66.3	64.5
46°	61.7	65.9	69.7	70.1	74.0	73.4	72.5	69.9	65.4	61.7	59.8
46.5°	57.2	60.9	64.5	64.7	68.5	67.8	67.2	64.8	60.8	57.6	55.5
47°	53.0	56.5	59.5	59.5	63.4	62.5	62.0	59.9	56.8	53.5	51.3
47.5°	48.9	51.9	54.6	54.5	58.8	57.9	57.4	55.6	52.8	49.5	47.1
48°	45.2	47.8	50.0	49.9	54.2	53.4	52.9	51.3	48.7	45.4	42.8
48.5°	41.5	43.7	45.5	45.5	49.5	48.8	48.4	47.0	44.7	41.4	39.4
49°	38.1	40.0	41.2	41.4	44.9	44.2	43.8	42.7	40.7	38.0	36.3
49.5°	34.8	36.4	37.2	37.5	40.3	39.6	39.3	38.5	37.2	34.7	33.4
50°	31.7	33.0	33.4	33.8	36.3	35.8	35.5	34.9	33.9	31.8	30.7
50.5°	28.7	29.7	29.9	30.3	32.5	32.2	31.9	31.5	30.8	28.9	28.1
51°	26.0	26.7	26.7	27.1	29.1	28.9	28.6	28.3	27.8	26.3	25.7
51.5°	23.3	23.9	23.8	24.0	25.8	25.8	25.6	25.3	25.0	23.8	23.4
52°	20.9	21.3	21.1	21.3	22.9	22.9	22.7	22.5	22.3	21.5	21.3
52.5°	18.8	19.1	18.9	19.1	20.1	20.2	20.0	19.9	19.8	19.2	19.1
53°	16.6	17.0	16.8	16.9	17.5	17.7	17.6	17.5	17.4	17.1	17.1
53.5°	14.5	14.8	14.6	14.7	15.2	15.4	15.3	15.2	15.3	15.0	15.2
54°	12.4	12.7	12.5	12.6	13.1	13.3	13.3	13.1	13.2	13.2	13.3
54.5°	10.7	10.5	10.4	10.4	11.3	11.5	11.5	11.3	11.4	11.4	11.6
55°	9.2	9.0	8.9	8.9	9.8	9.9	9.9	9.8	9.8	9.8	10.1
55.5°	7.9	7.6	7.5	7.5	8.4	8.5	8.5	8.3	8.4	8.5	8.7
56°	6.5	6.3	6.1	6.1	7.0	7.1	7.1	7.4	7.3	7.5	7.3
56.5°	5.3	5.1	5.0	5.0	6.2	6.2	6.2	6.5	6.3	6.6	6.4
57°	4.3	4.1	4.0	4.1	5.4	5.4	5.4	5.6	5.3	5.6	5.5
57.5°	3.5	3.4	3.3	3.4	4.5	4.6	4.6	4.7	4.3	4.7	4.6
58°	3.0	2.9	2.8	2.9	3.7	3.9	3.8	3.8	3.2	3.7	3.8
58.5°	2.6	2.5	2.5	2.5	2.9	3.1	3.0	2.9	2.8	2.8	2.9
59°	2.3	2.2	2.2	2.2	2.6	2.7	2.7	2.5	2.5	2.4	2.5
59.5°	2.1	2.0	2.0	2.1	2.3	2.4	2.4	2.2	2.2	2.2	2.2
60°	1.9	1.8	1.8	1.9	2.1	2.2	2.1	2.0	1.9	1.9	2.0
60.5°	1.7	1.6	1.6	1.7	1.9	2.0	1.9	1.8	1.7	1.7	1.8
61°	1.5	1.5	1.5	1.5	1.7	1.8	1.7	1.6	1.6	1.6	1.6
61.5°	1.4	1.3	1.3	1.4	1.6	1.6	1.6	1.5	1.4	1.4	1.5
62°	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.3
62.5°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.3	1.2	1.2	1.2
63°	1.1	1.0	1.0	1.1	1.2	1.3	1.2	1.2	1.1	1.1	1.1
63.5°	1.0	0.9	1.0	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
64°	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0
64.5°	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9
65°	0.8	0.7	0.8	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	0.9	0.8	0.8	0.8	0.7	0.8
66°	0.7	0.6	0.7	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	0.8	0.7	0.7	0.7	0.6	0.7
67°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6

TEST NUMBER: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.6	0.6	0.7	0.6	0.6	0.6	0.6	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°	0.5	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	0.5	0.4	0.5
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°	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
70.5°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3
72°	0.3	0.3	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	0.3
73.5°	0.2	0.2	0.2	0.2	0.3	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.1	0.1	0.1	0.2	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	0.2	0.1	0.1	0.2
76.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	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	0.1	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	0.1	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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.1	0.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	0.1	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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.2	0.2
142°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	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	0.3	0.3	0.3
152.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3
153°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	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°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3500K

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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.2	0.2	0.2	0.2	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3
176°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
176.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
177°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	594.5	594.5	594.5	594.5	594.5	594.5
0.5°	594.6	594.2	594.4	594.6	594.5	594.6
1°	594.4	594.0	594.2	594.3	594.3	594.4
1.5°	594.2	593.7	594.0	594.0	593.8	594.1
2°	593.8	593.4	593.5	593.3	593.3	593.6
2.5°	593.3	593.1	593.1	592.7	592.6	593.1
3°	592.7	592.7	592.5	591.8	591.6	592.5
3.5°	592.0	592.1	591.8	590.8	590.4	591.6
4°	591.1	591.3	590.9	589.5	589.1	590.6
4.5°	589.9	590.4	589.8	588.2	587.6	589.3
5°	588.6	589.3	588.7	586.6	586.0	587.8
5.5°	587.3	588.1	587.4	585.0	584.2	586.2
6°	585.8	586.7	586.0	583.4	582.4	584.6
6.5°	584.1	585.2	584.3	581.7	580.6	582.6
7°	582.4	583.2	582.6	580.0	578.7	580.6
7.5°	580.4	581.2	580.5	578.2	576.8	578.3
8°	578.2	578.8	578.3	576.0	574.7	576.1
8.5°	575.9	576.1	575.7	573.8	572.5	573.5
9°	573.2	572.9	572.8	571.2	570.0	570.7
9.5°	570.1	569.3	569.4	568.4	567.3	567.6
10°	566.6	565.1	565.4	565.0	564.3	564.5
10.5°	562.5	560.4	560.9	561.3	561.0	560.9
11°	558.0	555.2	555.9	556.9	557.2	556.9
11.5°	552.6	549.3	550.2	552.0	552.9	552.6
12°	546.9	542.9	544.1	546.3	547.8	547.7
12.5°	540.8	536.7	537.8	540.5	542.4	542.7
13°	534.6	530.0	531.2	534.3	536.9	537.5
13.5°	528.2	523.6	524.7	528.0	531.0	532.0
14°	521.6	516.8	518.0	521.4	524.9	526.3
14.5°	514.9	510.0	511.3	515.0	518.7	520.6
15°	508.2	503.1	504.4	508.2	512.4	514.6
15.5°	501.7	496.5	497.8	501.9	505.9	508.5
16°	495.2	490.0	491.4	495.3	499.4	502.5
16.5°	488.7	483.7	485.0	489.0	493.3	496.5
17°	482.4	477.2	478.5	482.7	486.9	490.3
17.5°	476.2	470.8	472.4	476.3	480.7	484.0
18°	470.0	464.4	465.9	470.0	474.3	477.7
18.5°	463.6	458.0	459.6	463.9	468.0	471.5
19°	457.6	451.8	453.5	457.6	461.6	465.3
19.5°	451.7	445.4	447.4	451.5	455.4	459.1
20°	445.9	439.3	441.5	445.4	449.1	452.8
20.5°	440.0	433.1	435.3	439.5	442.9	446.6
21°	434.1	427.1	429.3	433.2	436.7	440.3
21.5°	428.3	420.9	423.2	427.1	430.3	434.1
22°	422.2	414.8	417.1	420.9	424.2	427.6

TEST NUMBER: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	416.0	408.5	410.8	414.6	417.5	421.0
23°	409.2	401.8	403.9	407.9	410.6	413.9
23.5°	401.8	394.5	396.7	400.8	403.6	406.8
24°	394.4	386.7	389.1	393.1	396.0	399.3
24.5°	386.6	378.1	381.2	384.9	388.0	391.7
25°	378.5	369.9	372.9	376.5	379.6	383.8
25.5°	370.0	361.6	364.5	367.6	371.2	376.0
26°	361.5	353.4	356.0	358.6	362.5	368.1
26.5°	352.6	344.8	347.3	349.5	353.7	360.4
27°	343.5	336.7	338.6	340.2	344.4	352.1
27.5°	334.3	328.4	329.5	331.0	335.4	344.0
28°	324.9	319.8	320.5	321.9	326.8	335.5
28.5°	315.6	311.2	311.6	312.8	318.3	327.0
29°	306.6	302.5	302.7	304.1	309.8	318.1
29.5°	297.7	293.4	293.8	295.4	301.5	309.4
30°	288.8	284.3	284.7	286.9	293.4	300.1
30.5°	279.9	274.8	275.6	278.3	285.0	291.1
31°	271.3	265.7	266.5	269.7	276.6	282.1
31.5°	262.6	256.4	257.5	261.1	268.1	273.3
32°	254.1	247.4	248.7	252.5	259.3	264.3
32.5°	245.6	238.5	240.0	243.9	250.5	255.7
33°	237.1	229.8	231.5	235.2	241.7	247.0
33.5°	228.5	220.9	223.2	226.4	232.7	238.3
34°	220.1	211.1	215.4	218.0	223.7	229.7
34.5°	211.7	203.2	207.2	210.0	215.1	220.9
35°	203.6	195.4	199.1	202.0	206.9	210.7
35.5°	195.4	187.5	190.9	194.0	198.8	202.7
36°	187.7	179.7	182.8	186.0	190.6	194.6
36.5°	179.8	172.1	174.6	178.0	182.4	186.5
37°	172.0	164.6	166.9	170.5	174.3	178.4
37.5°	164.4	157.2	159.3	163.0	166.7	170.1
38°	157.0	150.3	151.8	155.8	159.2	161.9
38.5°	149.8	143.4	144.4	148.5	151.6	153.9
39°	142.7	136.8	137.8	141.4	144.3	146.3
39.5°	135.7	130.0	131.1	134.3	137.0	138.8
40°	128.8	123.4	124.5	127.3	129.7	131.5
40.5°	122.2	117.2	118.1	120.4	122.4	124.5
41°	115.8	111.2	112.0	113.8	115.5	117.7
41.5°	109.6	105.3	106.1	107.3	108.7	111.1
42°	103.5	99.7	100.2	101.1	102.2	104.8
42.5°	97.5	94.3	94.6	94.8	95.8	98.7
43°	91.8	89.1	89.1	89.2	89.9	92.8
43.5°	86.3	83.9	83.8	83.3	84.1	87.0
44°	81.1	79.0	78.7	77.8	78.5	81.6
44.5°	76.0	74.2	73.9	72.3	73.1	76.3

TEST NUMBER: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	71.1	69.6	69.2	67.3	67.9	71.2
45.5°	66.4	65.2	64.7	62.3	63.0	66.3
46°	61.9	61.0	60.4	57.6	58.3	61.7
46.5°	57.7	56.8	56.3	53.2	53.8	57.2
47°	53.8	52.9	52.3	49.1	49.5	53.0
47.5°	49.9	49.1	48.5	45.3	45.6	48.9
48°	46.0	45.4	44.9	41.7	42.0	45.2
48.5°	42.2	42.0	41.4	38.5	38.7	41.5
49°	38.8	38.7	38.1	35.4	35.4	38.1
49.5°	35.5	35.6	35.0	32.7	32.6	34.8
50°	32.6	32.6	32.0	30.0	29.9	31.7
50.5°	29.7	29.7	29.2	27.5	27.4	28.7
51°	27.1	26.9	26.5	25.2	24.9	26.0
51.5°	24.5	24.3	24.0	22.9	22.7	23.3
52°	22.2	21.8	21.6	20.7	20.8	20.9
52.5°	19.9	19.8	19.6	18.8	18.8	18.8
53°	17.7	17.7	17.6	16.9	16.8	16.6
53.5°	15.7	15.6	15.6	14.9	14.8	14.5
54°	13.8	13.6	13.6	13.0	12.8	12.4
54.5°	12.0	11.5	11.6	11.4	11.1	10.7
55°	10.4	9.9	10.0	9.9	9.5	9.2
55.5°	9.0	8.6	8.7	8.5	8.2	7.9
56°	7.6	7.2	7.3	7.1	6.9	6.5
56.5°	6.7	5.9	6.0	5.9	5.6	5.3
57°	5.8	4.8	4.9	4.8	4.6	4.3
57.5°	4.9	4.0	4.1	4.0	3.8	3.5
58°	4.0	3.4	3.5	3.4	3.2	3.0
58.5°	3.1	3.0	3.1	3.0	2.8	2.6
59°	2.7	2.6	2.7	2.6	2.4	2.3
59.5°	2.4	2.3	2.4	2.3	2.1	2.1
60°	2.1	2.2	2.2	2.1	2.0	1.9
60.5°	1.9	2.0	2.0	2.0	1.8	1.7
61°	1.7	1.8	1.8	1.8	1.6	1.5
61.5°	1.6	1.6	1.7	1.6	1.5	1.4
62°	1.4	1.5	1.5	1.5	1.3	1.2
62.5°	1.3	1.4	1.4	1.3	1.2	1.1
63°	1.2	1.3	1.3	1.2	1.1	1.1
63.5°	1.1	1.2	1.2	1.1	1.0	1.0
64°	1.0	1.1	1.1	1.1	1.0	0.9
64.5°	1.0	1.0	1.0	1.0	0.9	0.8
65°	0.9	0.9	1.0	0.9	0.8	0.8
65.5°	0.8	0.9	0.9	0.8	0.8	0.7
66°	0.8	0.8	0.8	0.8	0.7	0.7
66.5°	0.7	0.7	0.8	0.7	0.7	0.6
67°	0.7	0.7	0.7	0.7	0.6	0.6

TEST NUMBER: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.6	0.6	0.7	0.6	0.6	0.5
68°	0.6	0.6	0.6	0.6	0.5	0.5
68.5°	0.5	0.6	0.6	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.4
69.5°	0.5	0.5	0.5	0.5	0.4	0.4
70°	0.4	0.4	0.5	0.4	0.4	0.4
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	0.4	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°	0.3	0.3	0.3	0.3	0.2	0.2
74°	0.2	0.2	0.3	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	0.2	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	0.1	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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.1	0.1	0.1	0.0	0.0	0.0
130°	0.1	0.1	0.1	0.1	0.1	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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.2	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°	0.3	0.1	0.1	0.1	0.1	0.1
152.5°	0.3	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	0.2	0.2	0.1
154°	0.3	0.1	0.1	0.2	0.2	0.2
154.5°	0.3	0.1	0.2	0.2	0.2	0.2
155°	0.3	0.1	0.2	0.2	0.2	0.2
155.5°	0.3	0.2	0.2	0.2	0.2	0.2
156°	0.3	0.2	0.2	0.2	0.2	0.2
156.5°	0.3	0.2	0.2	0.2	0.2	0.2
157°	0.3	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3500K

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°	0.3	0.2	0.2	0.2	0.2	0.2
176°	0.3	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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590504

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.5	1.5	0.8	1.8	2.1	1.4	2.4	1.8	2.8	3.1
	3H	0.4	1.3	0.8	1.6	2.0	1.3	2.3	1.7	2.6	3.0
	4H	0.3	1.2	0.7	1.5	1.9	1.3	2.1	1.7	2.5	2.8
	6H	0.2	1.0	0.6	1.4	1.8	1.2	1.9	1.6	2.3	2.7
	8H	0.2	0.9	0.6	1.3	1.7	1.1	1.8	1.5	2.2	2.6
	12H	0.1	0.8	0.6	1.2	1.6	1.1	1.7	1.5	2.1	2.6
4H	2H	0.3	1.1	0.7	1.5	1.9	1.2	2.0	1.6	2.4	2.8
	3H	0.2	0.9	0.7	1.3	1.7	1.2	1.8	1.6	2.2	2.7
	4H	0.2	0.8	0.6	1.2	1.6	1.1	1.7	1.5	2.1	2.6
	6H	0.1	0.6	0.5	1.0	1.5	1.0	1.5	1.5	2.0	2.4
	8H	0.0	0.5	0.5	0.9	1.4	0.9	1.4	1.4	1.8	2.3
	12H	0.0	0.3	0.4	0.8	1.3	0.8	1.3	1.3	1.8	2.2
8H	4H	0.0	0.5	0.5	0.9	1.4	0.9	1.4	1.4	1.8	2.3
	6H	0.0	0.3	0.4	0.8	1.3	0.8	1.2	1.3	1.7	2.2
	8H	0.0	0.2	0.4	0.7	1.2	0.7	1.1	1.3	1.6	2.1
	12H	0.0	0.1	0.3	0.6	1.1	0.7	1.0	1.2	1.5	2.1
12H	4H	0.0	0.4	0.4	0.8	1.3	0.8	1.3	1.3	1.8	2.2
	6H	0.0	0.2	0.4	0.6	1.2	0.7	1.1	1.3	1.6	2.1
	8H	0.0	0.1	0.3	0.6	1.1	0.7	1.0	1.2	1.5	2.1

(END OF REPORT)