

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: P1590519

Luminaire Tested: HCDLS510CSD4TRH-LO-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590519
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-3500K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 500 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

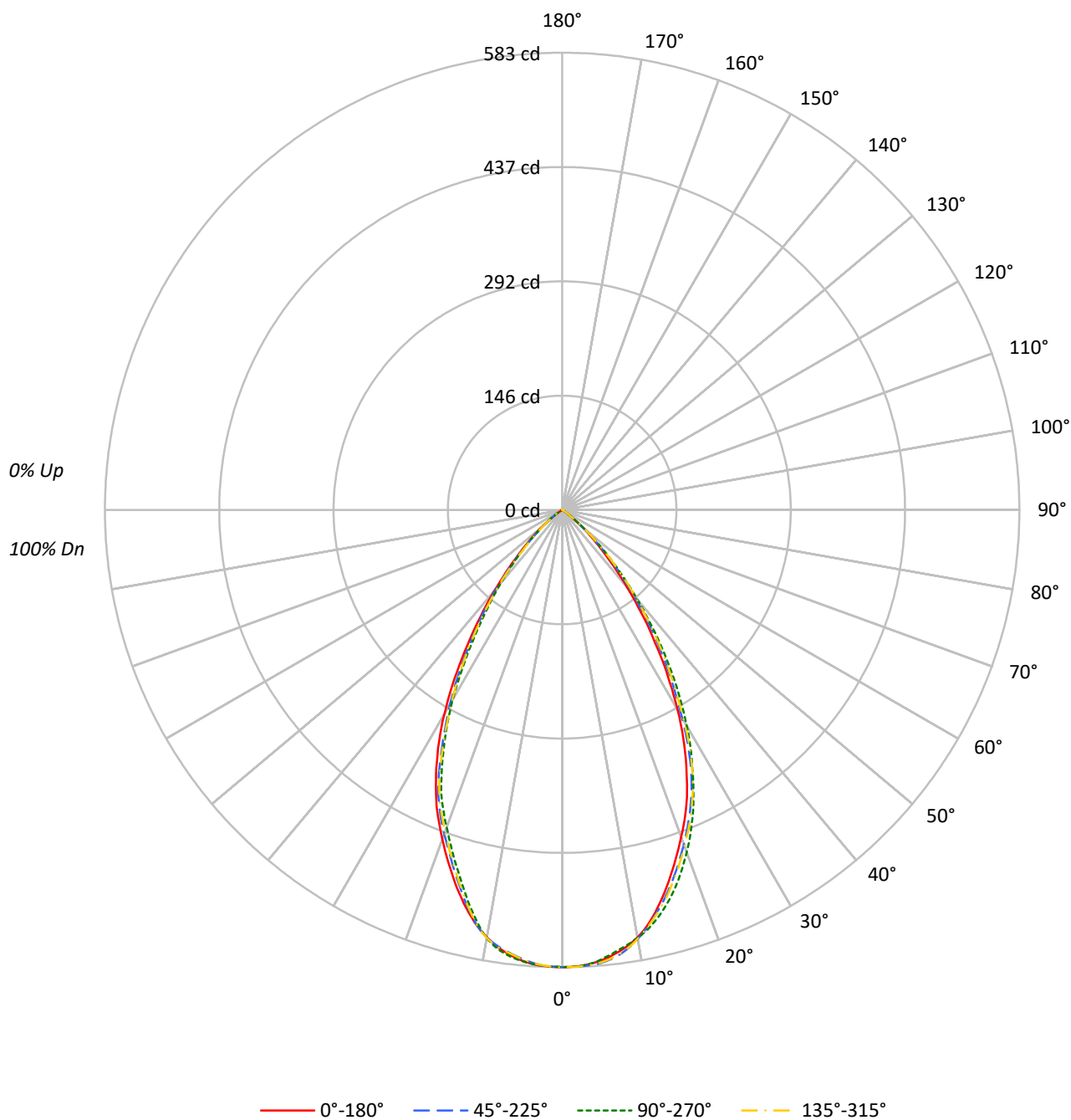
Lumens per Lamp: N/A
Luminaire Lumens: 570.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	71898	71898	71898	71898
5°	71356	71207	71442	71529
10°	69312	69400	69300	69388
15°	64423	66236	64653	62980
20°	58267	60945	58648	56534
25°	51213	53894	51826	49362
30°	41902	45263	42814	39694
35°	31109	35024	31772	28851
40°	20755	24104	21576	19483
45°	12176	14600	12873	11897
50°	5949	6831	6371	6121
55°	1935	2064	2064	2086
60°	444	493	469	518
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: 14600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	9.5
10°-20°	141.1	24.8
20°-30°	172.4	30.3
30°-40°	131.4	23.0
40°-50°	58.6	10.3
50°-60°	10.6	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°	367.9	64.6
0°-40°	499.3	87.6
0°-60°	568.5	99.7
0°-90°	569.6	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	570.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	576	575	577	578	576	54
15°	504	519	506	493	504	141
25°	376	396	381	363	376	171
35°	207	233	211	192	207	129
45°	70	84	74	68	70	56
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°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
0.5°	583.0	582.8	582.8	583.0	582.8	582.8	583.1	583.0	583.0	582.8	582.8
1°	582.7	582.7	582.8	583.0	582.8	582.8	582.9	582.9	582.8	582.6	582.6
1.5°	582.4	582.5	582.7	582.8	582.6	582.7	582.8	582.7	582.6	582.3	582.3
2°	582.0	582.2	582.6	582.5	582.2	582.4	582.6	582.5	582.2	581.7	581.8
2.5°	581.5	582.0	582.3	582.0	581.7	581.8	582.4	582.2	581.6	581.1	581.2
3°	580.9	581.7	581.9	581.4	580.9	581.2	581.8	581.8	581.1	580.2	580.3
3.5°	580.0	581.3	581.5	580.7	579.9	580.4	581.3	581.3	580.4	579.1	579.2
4°	579.0	580.8	581.1	579.6	578.5	579.3	580.7	580.8	579.4	577.8	578.0
4.5°	577.7	580.1	580.5	578.4	576.9	577.9	579.8	580.1	578.4	576.3	576.5
5°	576.3	579.2	579.4	576.8	575.1	576.2	578.8	579.3	577.0	574.6	574.9
5.5°	574.7	578.1	578.3	575.1	573.1	574.5	577.5	578.2	575.5	572.7	573.3
6°	573.1	576.6	576.9	573.2	571.1	572.5	576.1	576.8	573.8	570.8	571.5
6.5°	571.2	575.0	575.3	571.4	569.0	570.5	574.4	575.2	571.9	568.9	569.7
7°	569.2	573.0	573.3	569.3	566.9	568.5	572.4	573.3	569.8	566.8	567.9
7.5°	567.0	570.7	571.1	567.1	564.9	566.3	570.3	571.1	567.7	564.7	565.9
8°	564.8	568.3	568.5	564.7	562.8	564.0	567.8	568.5	565.2	562.5	563.8
8.5°	562.2	565.5	565.7	562.2	560.7	561.8	565.1	565.8	562.5	560.1	561.6
9°	559.5	562.3	562.5	559.6	558.6	559.3	562.0	562.6	559.7	557.7	559.1
9.5°	556.5	558.9	559.2	556.8	556.4	556.7	558.8	559.2	556.7	555.0	556.5
10°	553.4	555.3	555.5	553.7	554.1	553.9	555.2	555.5	553.3	552.1	553.4
10.5°	549.9	551.3	551.5	550.5	551.6	551.0	551.5	551.4	549.6	548.7	549.9
11°	546.0	547.2	547.4	547.1	548.8	547.9	547.6	547.4	545.9	545.1	545.9
11.5°	541.8	542.7	543.2	543.5	545.9	544.6	543.6	543.1	541.8	541.1	541.5
12°	537.0	538.0	538.8	539.5	542.7	541.0	539.5	538.6	537.4	536.4	536.4
12.5°	532.1	533.2	534.1	535.7	539.2	537.2	535.2	534.0	532.5	531.4	530.7
13°	526.9	528.4	529.5	531.5	535.6	533.3	530.7	529.1	527.8	526.2	525.1
13.5°	521.5	523.2	524.7	527.3	531.6	529.4	526.2	524.4	522.7	520.7	519.2
14°	516.0	517.9	519.9	522.7	527.4	525.0	521.5	519.2	517.5	515.0	513.0
14.5°	510.4	512.6	515.0	518.2	523.1	520.6	516.6	514.2	511.8	509.1	506.9
15°	504.5	507.2	509.8	513.5	518.7	515.9	511.9	509.0	506.3	503.1	500.5
15.5°	498.6	501.6	504.7	508.5	514.1	511.2	506.7	503.6	500.6	497.1	494.1
16°	492.7	495.9	499.3	503.2	509.2	506.1	501.5	498.0	494.8	490.9	487.8
16.5°	486.8	490.3	493.9	498.1	504.2	501.0	496.0	492.4	488.9	484.7	481.5
17°	480.7	484.6	488.4	492.7	499.0	495.7	490.5	486.7	482.9	478.5	475.3
17.5°	474.5	478.7	482.6	487.2	493.6	490.2	485.0	480.7	476.9	472.4	469.1
18°	468.4	472.8	476.9	481.4	487.9	484.7	479.2	474.9	470.9	466.3	462.9
18.5°	462.2	466.7	471.1	475.7	482.3	478.9	473.5	469.1	464.9	460.2	456.9
19°	456.1	460.7	465.4	469.9	476.3	473.1	467.8	463.2	458.7	454.2	450.8
19.5°	450.1	454.7	459.5	464.0	470.5	467.3	462.0	457.2	452.7	448.3	445.4
20°	443.9	448.6	453.7	458.0	464.3	461.4	456.3	451.4	446.8	442.3	439.6
20.5°	437.8	442.7	447.7	452.0	458.3	455.5	450.3	445.7	440.6	436.4	433.8
21°	431.7	436.5	441.7	445.9	452.1	449.2	444.4	439.8	434.4	430.4	427.9
21.5°	425.6	430.4	435.8	439.6	445.5	442.8	438.6	433.8	428.3	424.5	422.1
22°	419.2	424.1	429.5	433.1	438.9	436.4	432.7	427.9	422.1	418.6	415.7

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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°	412.8	417.9	423.3	426.8	432.2	430.0	426.8	422.0	416.4	412.0	409.4
23°	405.8	411.3	417.0	419.8	425.6	423.5	420.9	415.4	409.7	405.0	402.7
23.5°	398.9	404.8	410.6	413.2	419.0	417.1	414.2	408.9	402.7	397.9	395.7
24°	391.5	397.9	403.8	405.9	411.3	409.9	407.7	402.3	395.5	390.7	388.1
24.5°	384.1	390.9	397.3	398.8	403.8	402.7	401.0	395.4	388.2	383.1	380.2
25°	376.3	383.5	390.3	391.2	396.0	395.3	394.1	388.4	380.8	375.3	371.9
25.5°	368.6	376.2	383.2	383.9	388.5	387.8	386.9	381.3	373.3	367.3	363.3
26°	360.9	368.5	375.8	376.2	380.8	380.2	379.6	373.9	365.8	359.2	354.3
26.5°	353.4	360.8	368.2	368.5	373.1	372.5	372.0	366.1	357.9	351.0	345.3
27°	345.2	353.0	360.0	360.7	365.3	364.6	364.1	358.2	350.2	342.6	336.3
27.5°	337.2	345.0	351.4	352.8	357.8	356.9	355.9	350.2	342.5	333.9	327.7
28°	328.9	337.0	342.6	344.7	350.1	349.1	347.2	341.9	334.4	325.5	319.1
28.5°	320.6	328.3	333.4	336.4	342.3	341.0	338.5	333.4	326.2	316.8	310.5
29°	311.9	320.0	324.1	328.1	334.4	333.0	329.4	324.6	317.8	308.4	302.3
29.5°	303.3	311.3	314.5	319.8	326.3	324.8	320.1	315.5	309.2	300.0	294.1
30°	294.2	302.2	305.1	311.1	317.8	316.4	310.4	306.1	300.6	291.6	285.8
30.5°	285.4	292.8	295.9	302.1	309.4	307.6	301.0	296.7	291.5	283.1	277.5
31°	276.6	283.7	286.9	293.1	300.8	299.0	291.8	287.2	282.7	274.9	269.0
31.5°	267.9	274.1	278.1	284.1	292.3	290.2	282.9	277.7	273.6	266.7	260.4
32°	259.1	264.8	269.6	275.0	283.7	281.2	274.3	268.5	265.0	258.5	251.8
32.5°	250.7	255.3	261.1	266.1	275.4	272.3	265.7	259.6	255.6	250.1	243.2
33°	242.2	246.6	252.9	257.2	267.0	263.2	257.6	250.9	246.5	242.0	234.5
33.5°	233.6	237.4	244.6	248.2	258.5	254.3	249.3	242.4	237.3	233.6	225.7
34°	225.2	229.0	236.5	239.8	249.9	245.6	241.2	234.0	228.6	225.2	217.5
34.5°	216.6	220.2	228.0	231.5	241.2	237.0	233.1	225.8	219.6	216.7	209.1
35°	206.6	211.8	219.5	223.3	232.6	228.6	224.9	217.8	211.0	208.0	201.3
35.5°	198.7	203.7	211.4	215.4	224.0	220.4	216.6	209.6	202.6	199.5	193.7
36°	190.8	195.6	203.4	207.8	215.2	212.3	208.3	201.3	194.6	191.2	186.2
36.5°	182.9	187.5	195.4	199.9	206.6	204.0	200.1	193.1	186.3	182.9	178.6
37°	174.9	179.5	187.3	192.0	198.0	196.1	192.0	185.0	178.4	174.9	171.4
37.5°	166.7	171.4	179.3	184.1	189.6	188.2	184.0	176.8	170.7	166.9	164.0
38°	158.7	164.0	171.3	176.2	181.4	180.5	176.4	168.9	163.1	159.3	156.8
38.5°	150.9	156.5	163.9	168.4	173.1	172.6	168.8	161.3	155.6	151.9	149.4
39°	143.5	149.4	156.8	160.9	165.2	165.3	161.7	153.9	148.3	144.7	142.3
39.5°	136.1	142.2	149.5	153.4	157.4	157.6	154.5	146.8	141.1	137.3	135.3
40°	128.9	135.3	142.4	146.0	149.7	150.3	147.5	139.9	134.0	130.2	128.4
40.5°	122.1	128.7	135.5	138.8	142.4	142.7	140.4	133.1	127.0	123.2	121.5
41°	115.4	122.0	128.5	131.7	135.0	135.6	133.5	126.5	120.2	116.5	115.0
41.5°	108.9	115.5	121.5	124.9	128.0	128.4	126.6	120.1	113.7	109.9	108.8
42°	102.7	109.5	115.0	118.3	121.2	121.5	119.7	113.9	107.4	103.4	102.7
42.5°	96.8	103.3	108.5	111.7	114.6	114.6	112.9	107.7	101.3	97.2	96.6
43°	91.0	97.3	102.1	105.0	108.1	108.1	106.4	101.7	95.4	91.3	90.7
43.5°	85.3	91.2	95.9	98.6	101.6	101.5	100.0	95.8	89.6	85.5	84.8
44°	80.0	85.5	90.2	92.2	95.4	95.4	93.8	90.1	84.2	80.1	79.4
44.5°	74.8	80.0	84.4	86.1	89.4	89.2	87.8	84.4	78.9	74.9	73.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	69.8	74.7	78.9	80.2	83.7	83.3	82.0	78.9	73.8	69.9	68.4
45.5°	65.0	69.5	73.6	74.3	77.9	77.4	76.5	73.6	68.9	65.0	63.2
46°	60.5	64.6	68.4	68.8	72.5	72.0	71.1	68.5	64.1	60.5	58.6
46.5°	56.1	59.7	63.2	63.4	67.1	66.5	65.9	63.5	59.6	56.5	54.4
47°	52.0	55.4	58.3	58.4	62.2	61.3	60.8	58.7	55.7	52.5	50.3
47.5°	47.9	50.9	53.5	53.5	57.6	56.8	56.3	54.5	51.7	48.5	46.2
48°	44.3	46.9	49.0	48.9	53.1	52.3	51.9	50.3	47.8	44.5	42.0
48.5°	40.6	42.8	44.6	44.6	48.6	47.8	47.4	46.1	43.8	40.6	38.6
49°	37.3	39.2	40.4	40.6	44.0	43.3	43.0	41.9	39.9	37.2	35.5
49.5°	34.1	35.7	36.4	36.8	39.5	38.8	38.5	37.7	36.5	34.0	32.7
50°	31.0	32.4	32.7	33.1	35.6	35.1	34.8	34.2	33.2	31.1	30.1
50.5°	28.1	29.1	29.3	29.7	31.9	31.6	31.3	30.9	30.2	28.4	27.5
51°	25.4	26.2	26.2	26.5	28.5	28.4	28.0	27.7	27.3	25.8	25.2
51.5°	22.8	23.4	23.3	23.6	25.3	25.3	25.1	24.8	24.5	23.4	23.0
52°	20.5	20.9	20.6	20.9	22.4	22.4	22.2	22.1	21.9	21.1	20.8
52.5°	18.4	18.8	18.6	18.7	19.7	19.8	19.6	19.5	19.4	18.9	18.7
53°	16.3	16.7	16.5	16.6	17.2	17.4	17.2	17.1	17.1	16.7	16.7
53.5°	14.2	14.5	14.4	14.5	14.9	15.1	15.0	14.9	15.0	14.7	14.9
54°	12.2	12.4	12.3	12.3	12.9	13.0	13.0	12.9	13.0	12.9	13.1
54.5°	10.5	10.3	10.2	10.2	11.1	11.3	11.3	11.1	11.2	11.2	11.4
55°	9.0	8.9	8.7	8.8	9.6	9.7	9.7	9.6	9.6	9.6	9.9
55.5°	7.7	7.5	7.4	7.4	8.2	8.3	8.3	8.2	8.2	8.3	8.5
56°	6.4	6.1	6.0	6.0	6.8	6.9	6.9	7.3	7.2	7.4	7.1
56.5°	5.2	5.0	4.9	4.9	6.0	6.1	6.1	6.4	6.2	6.4	6.2
57°	4.2	4.0	3.9	4.0	5.3	5.3	5.3	5.5	5.2	5.5	5.4
57.5°	3.4	3.3	3.3	3.4	4.5	4.6	4.5	4.6	4.2	4.6	4.6
58°	2.9	2.8	2.8	2.9	3.7	3.8	3.7	3.7	3.2	3.7	3.7
58.5°	2.5	2.4	2.4	2.5	2.9	3.0	3.0	2.8	2.7	2.7	2.9
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	2.0	2.0	2.0	2.3	2.4	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°	1.7	1.6	1.6	1.7	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	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.4
62°	1.2	1.2	1.2	1.2	1.4	1.5	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	1.1	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	0.9	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	0.9	0.8	0.9
65°	0.8	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	0.9	0.8	0.8	0.7	0.7	0.8
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°	0.6	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6

TEST NUMBER: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	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	0.5
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	0.3	0.4	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	0.4	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	0.3	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	0.2
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	0.1	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	0.2	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	0.0	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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
138°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
138.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
139°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
139.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
141°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
141.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
142°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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	0.3	0.3
153°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	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°	0.1	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	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.2	0.2	0.1	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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.1	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	0.2	0.2	0.3	0.3	0.3	0.3	0.2
176.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9
0.5°	582.9	582.5	582.7	582.9	582.9	583.0
1°	582.8	582.4	582.6	582.7	582.6	582.7
1.5°	582.5	582.1	582.4	582.3	582.2	582.4
2°	582.2	581.8	581.9	581.7	581.6	582.0
2.5°	581.6	581.4	581.4	581.1	581.0	581.5
3°	581.1	581.1	580.9	580.2	580.0	580.9
3.5°	580.4	580.5	580.2	579.2	578.8	580.0
4°	579.5	579.7	579.3	578.0	577.5	579.0
4.5°	578.3	578.8	578.3	576.6	576.1	577.7
5°	577.1	577.7	577.1	575.1	574.5	576.3
5.5°	575.8	576.6	575.9	573.6	572.8	574.7
6°	574.3	575.2	574.5	572.0	570.9	573.1
6.5°	572.7	573.7	572.9	570.3	569.3	571.2
7°	570.9	571.8	571.2	568.6	567.3	569.2
7.5°	569.0	569.8	569.1	566.8	565.5	567.0
8°	566.9	567.5	566.9	564.7	563.4	564.8
8.5°	564.6	564.8	564.4	562.6	561.3	562.2
9°	561.9	561.6	561.5	560.0	558.9	559.5
9.5°	559.0	558.1	558.2	557.3	556.2	556.5
10°	555.5	554.0	554.4	553.9	553.3	553.4
10.5°	551.5	549.4	549.9	550.3	550.0	549.9
11°	547.0	544.3	545.0	546.0	546.3	546.0
11.5°	541.8	538.5	539.4	541.2	542.0	541.8
12°	536.2	532.3	533.5	535.6	537.1	537.0
12.5°	530.2	526.2	527.3	529.9	531.7	532.1
13°	524.1	519.7	520.8	523.8	526.4	526.9
13.5°	517.8	513.4	514.4	517.6	520.6	521.5
14°	511.4	506.6	507.8	511.2	514.6	516.0
14.5°	504.8	500.0	501.2	504.9	508.5	510.4
15°	498.3	493.2	494.5	498.3	502.3	504.5
15.5°	491.9	486.8	488.0	492.1	495.9	498.6
16°	485.5	480.4	481.8	485.6	489.6	492.7
16.5°	479.1	474.2	475.5	479.4	483.6	486.8
17°	473.0	467.8	469.1	473.3	477.4	480.7
17.5°	466.9	461.6	463.1	467.0	471.3	474.5
18°	460.8	455.3	456.8	460.8	465.0	468.4
18.5°	454.5	449.1	450.6	454.8	458.8	462.2
19°	448.6	442.9	444.6	448.7	452.6	456.1
19.5°	442.9	436.6	438.6	442.7	446.5	450.1
20°	437.1	430.7	432.8	436.7	440.3	443.9
20.5°	431.4	424.6	426.8	430.9	434.3	437.8
21°	425.6	418.8	420.8	424.7	428.1	431.7
21.5°	419.9	412.7	414.9	418.7	421.9	425.6
22°	413.9	406.7	409.0	412.6	415.8	419.2

TEST NUMBER: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	407.8	400.5	402.7	406.5	409.4	412.8
23°	401.2	393.9	396.0	399.9	402.5	405.8
23.5°	393.9	386.8	389.0	392.9	395.6	398.9
24°	386.6	379.1	381.5	385.4	388.2	391.5
24.5°	379.0	370.6	373.7	377.4	380.3	384.1
25°	371.1	362.7	365.6	369.1	372.1	376.3
25.5°	362.7	354.5	357.4	360.4	363.9	368.6
26°	354.4	346.5	349.0	351.5	355.4	360.9
26.5°	345.7	338.0	340.5	342.6	346.8	353.4
27°	336.8	330.1	332.0	333.6	337.7	345.2
27.5°	327.8	321.9	323.1	324.5	328.8	337.2
28°	318.5	313.5	314.2	315.6	320.4	328.9
28.5°	309.4	305.1	305.5	306.7	312.0	320.6
29°	300.6	296.5	296.8	298.1	303.8	311.9
29.5°	291.8	287.6	288.1	289.6	295.6	303.3
30°	283.2	278.7	279.1	281.2	287.6	294.2
30.5°	274.4	269.4	270.2	272.8	279.4	285.4
31°	266.0	260.5	261.2	264.4	271.2	276.6
31.5°	257.5	251.4	252.5	256.0	262.8	267.9
32°	249.1	242.5	243.8	247.5	254.2	259.1
32.5°	240.8	233.8	235.3	239.1	245.6	250.7
33°	232.5	225.3	227.0	230.6	236.9	242.2
33.5°	224.1	216.6	218.8	221.9	228.1	233.6
34°	215.8	207.0	211.1	213.7	219.3	225.2
34.5°	207.6	199.3	203.2	205.9	210.9	216.6
35°	199.6	191.6	195.2	198.0	202.9	206.6
35.5°	191.6	183.9	187.2	190.2	194.9	198.7
36°	184.0	176.2	179.2	182.3	186.9	190.8
36.5°	176.2	168.7	171.2	174.5	178.9	182.9
37°	168.7	161.3	163.6	167.1	170.9	174.9
37.5°	161.2	154.2	156.2	159.8	163.4	166.7
38°	153.9	147.3	148.8	152.8	156.1	158.7
38.5°	146.8	140.6	141.6	145.6	148.6	150.9
39°	139.9	134.1	135.1	138.7	141.5	143.5
39.5°	133.1	127.4	128.5	131.6	134.3	136.1
40°	126.3	121.0	122.0	124.8	127.1	128.9
40.5°	119.8	114.9	115.8	118.1	120.0	122.1
41°	113.5	109.0	109.8	111.5	113.3	115.4
41.5°	107.4	103.2	104.0	105.2	106.5	108.9
42°	101.5	97.7	98.3	99.1	100.2	102.7
42.5°	95.6	92.4	92.7	93.0	94.0	96.8
43°	90.0	87.3	87.3	87.4	88.2	91.0
43.5°	84.6	82.3	82.2	81.7	82.4	85.3
44°	79.5	77.4	77.2	76.3	77.0	80.0
44.5°	74.5	72.7	72.5	70.9	71.6	74.8

TEST NUMBER: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-LO-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	69.7	68.2	67.8	65.9	66.5	69.8
45.5°	65.1	63.9	63.4	61.1	61.7	65.0
46°	60.7	59.8	59.2	56.5	57.2	60.5
46.5°	56.5	55.7	55.2	52.1	52.7	56.1
47°	52.7	51.8	51.3	48.1	48.6	52.0
47.5°	48.9	48.1	47.5	44.4	44.7	47.9
48°	45.1	44.5	44.0	40.9	41.2	44.3
48.5°	41.3	41.2	40.6	37.7	37.9	40.6
49°	38.0	38.0	37.4	34.8	34.7	37.3
49.5°	34.8	34.9	34.3	32.0	32.0	34.1
50°	31.9	31.9	31.3	29.4	29.3	31.0
50.5°	29.1	29.1	28.6	27.0	26.9	28.1
51°	26.5	26.4	26.0	24.7	24.5	25.4
51.5°	24.1	23.8	23.5	22.5	22.3	22.8
52°	21.7	21.4	21.2	20.3	20.4	20.5
52.5°	19.5	19.4	19.2	18.4	18.4	18.4
53°	17.4	17.4	17.2	16.5	16.4	16.3
53.5°	15.4	15.3	15.3	14.7	14.5	14.2
54°	13.5	13.3	13.3	12.8	12.5	12.2
54.5°	11.7	11.3	11.3	11.1	10.8	10.5
55°	10.2	9.7	9.8	9.7	9.3	9.0
55.5°	8.8	8.4	8.5	8.3	8.1	7.7
56°	7.4	7.0	7.1	7.0	6.7	6.4
56.5°	6.6	5.8	5.9	5.8	5.5	5.2
57°	5.7	4.8	4.8	4.7	4.5	4.2
57.5°	4.8	4.0	4.1	3.9	3.7	3.4
58°	3.9	3.4	3.5	3.3	3.1	2.9
58.5°	3.0	2.9	3.0	2.9	2.7	2.5
59°	2.6	2.6	2.7	2.5	2.4	2.2
59.5°	2.3	2.3	2.4	2.3	2.1	2.0
60°	2.1	2.1	2.1	2.1	1.9	1.8
60.5°	1.9	1.9	2.0	1.9	1.8	1.7
61°	1.7	1.8	1.8	1.8	1.6	1.5
61.5°	1.5	1.6	1.7	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	0.8
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	0.8	0.7	0.6	0.6
67°	0.6	0.7	0.7	0.7	0.6	0.6

TEST NUMBER: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.5	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	0.4
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	0.3	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	0.1	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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.0	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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.2	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	0.1	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	0.2	0.2	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	0.2	0.2	0.2	0.2
156.5°	0.3	0.1	0.2	0.2	0.2	0.2
157°	0.3	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.2	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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590519

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.3	1.4	0.7	1.7	2.0	1.4	2.5	1.8	2.8	3.1
	3H	0.2	1.2	0.6	1.5	1.9	1.4	2.3	1.8	2.6	3.0
	4H	0.2	1.0	0.6	1.4	1.8	1.3	2.1	1.7	2.5	2.9
	6H	0.1	0.8	0.5	1.2	1.6	1.2	2.0	1.6	2.4	2.7
	8H	0.0	0.7	0.5	1.1	1.5	1.1	1.9	1.6	2.3	2.7
	12H	0.0	0.7	0.4	1.0	1.5	1.1	1.8	1.5	2.2	2.6
4H	2H	0.1	1.0	0.5	1.3	1.7	1.2	2.1	1.6	2.4	2.8
	3H	0.1	0.8	0.5	1.2	1.6	1.2	1.9	1.6	2.3	2.7
	4H	0.0	0.6	0.4	1.0	1.5	1.1	1.7	1.5	2.1	2.6
	6H	0.0	0.4	0.4	0.9	1.4	1.0	1.5	1.5	2.0	2.5
	8H	0.0	0.3	0.3	0.8	1.3	0.9	1.4	1.4	1.9	2.4
	12H	0.0	0.2	0.3	0.7	1.2	0.9	1.3	1.4	1.8	2.3
8H	4H	0.0	0.3	0.3	0.8	1.3	0.9	1.4	1.4	1.9	2.4
	6H	0.0	0.1	0.3	0.6	1.1	0.8	1.2	1.3	1.7	2.2
	8H	0.0	0.0	0.2	0.5	1.0	0.8	1.1	1.3	1.6	2.1
	12H	0.0	0.0	0.1	0.4	1.0	0.7	1.0	1.2	1.5	2.1
12H	4H	0.0	0.2	0.3	0.7	1.2	0.9	1.3	1.4	1.8	2.3
	6H	0.0	0.0	0.2	0.5	1.0	0.8	1.1	1.3	1.6	2.1
	8H	0.0	0.0	0.1	0.4	1.0	0.7	1.0	1.2	1.5	2.1

(END OF REPORT)