

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: P1590505

Luminaire Tested: HCDLS510CSD4TRC-LO-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590505
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-4000K
Description: 4" Selectable Round Trim + Specular Clear 500 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

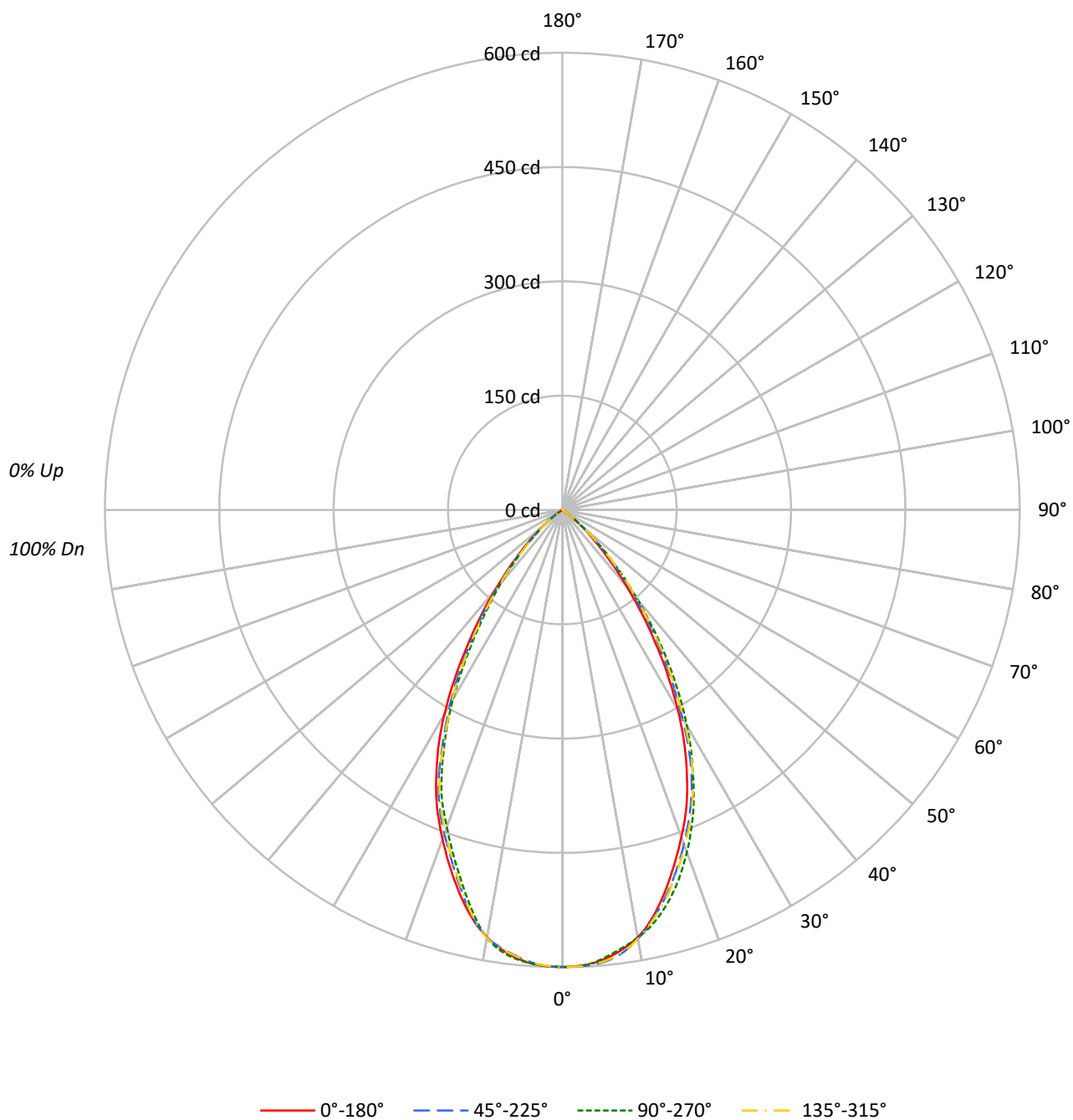
Lumens per Lamp: N/A
Luminaire Lumens: 586.5 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	73970	73970	73970	73970
5°	73423	73262	73510	73609
10°	71316	71404	71304	71392
15°	66300	68152	66517	64806
20°	59960	62717	60341	58175
25°	52697	55459	53323	50791
30°	43113	46574	44053	40834
35°	32013	36033	32690	29679
40°	21351	24813	22204	20047
45°	12525	15019	13257	12245
50°	6121	7023	6563	6294
55°	2000	2129	2129	2150
60°	469	518	493	543
65°	233	263	233	263
70°	144	144	144	180
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: 15019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	9.5
10°-20°	145.2	24.8
20°-30°	177.4	30.3
30°-40°	135.2	23.0
40°-50°	60.3	10.3
50°-60°	10.9	1.9
60°-70°	0.9	0.2
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.1	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	378.6	64.6
0°-40°	513.8	87.6
0°-60°	585.0	99.7
0°-90°	586.1	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	586.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	600	600	600	600	600	
5°	593	592	594	594	593	56
15°	519	534	521	508	519	145
25°	387	408	392	373	387	176
35°	213	239	217	197	213	133
45°	72	86	76	70	72	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°	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7	599.7
0.5°	599.8	599.6	599.7	599.8	599.6	599.7	600.0	599.8	599.8	599.6	599.6
1°	599.6	599.6	599.7	599.8	599.6	599.7	599.8	599.8	599.6	599.4	599.4
1.5°	599.3	599.4	599.6	599.6	599.4	599.6	599.6	599.6	599.4	599.1	599.1
2°	598.8	599.1	599.4	599.4	599.1	599.2	599.4	599.4	599.0	598.5	598.6
2.5°	598.3	598.8	599.2	598.9	598.5	598.7	599.2	599.1	598.5	597.9	598.0
3°	597.7	598.5	598.8	598.3	597.7	598.1	598.7	598.7	597.9	597.0	597.1
3.5°	596.8	598.2	598.4	597.5	596.7	597.2	598.1	598.2	597.2	595.9	596.0
4°	595.7	597.6	597.9	596.4	595.3	596.1	597.5	597.6	596.2	594.5	594.7
4.5°	594.4	596.9	597.3	595.1	593.6	594.6	596.6	596.9	595.1	592.9	593.2
5°	593.0	596.0	596.2	593.5	591.7	592.9	595.5	596.1	593.7	591.2	591.6
5.5°	591.4	594.8	595.1	591.8	589.7	591.1	594.2	594.9	592.2	589.3	589.9
6°	589.7	593.3	593.6	589.8	587.6	589.1	592.7	593.5	590.4	587.4	588.0
6.5°	587.7	591.6	592.0	587.9	585.5	587.0	591.0	591.9	588.4	585.4	586.2
7°	585.7	589.6	589.9	585.8	583.4	584.9	589.0	589.9	586.3	583.2	584.3
7.5°	583.4	587.3	587.6	583.5	581.3	582.7	586.8	587.7	584.1	581.0	582.3
8°	581.1	584.7	585.0	581.0	579.1	580.4	584.3	585.0	581.5	578.8	580.1
8.5°	578.5	581.8	582.1	578.5	576.9	578.1	581.4	582.2	578.8	576.4	577.8
9°	575.7	578.6	578.8	575.8	574.7	575.5	578.3	578.9	575.9	573.8	575.3
9.5°	572.6	575.1	575.4	572.9	572.5	572.8	574.9	575.4	572.8	571.0	572.6
10°	569.4	571.4	571.6	569.8	570.1	569.9	571.3	571.6	569.3	568.1	569.5
10.5°	565.8	567.3	567.5	566.5	567.6	567.0	567.5	567.4	565.6	564.6	565.8
11°	561.8	563.0	563.2	562.9	564.7	563.7	563.5	563.2	561.7	560.9	561.7
11.5°	557.4	558.4	558.9	559.2	561.7	560.3	559.3	558.8	557.4	556.8	557.2
12°	552.5	553.6	554.4	555.1	558.4	556.7	555.1	554.2	553.0	552.0	551.9
12.5°	547.5	548.7	549.5	551.2	554.8	552.7	550.7	549.5	547.9	546.8	546.0
13°	542.2	543.6	544.8	546.9	551.1	548.8	546.1	544.4	543.1	541.4	540.3
13.5°	536.6	538.3	539.9	542.5	547.0	544.7	541.4	539.5	537.8	535.7	534.2
14°	530.9	532.9	535.0	537.9	542.7	540.2	536.6	534.3	532.4	529.9	527.9
14.5°	525.1	527.4	529.9	533.2	538.3	535.7	531.5	529.1	526.6	523.8	521.5
15°	519.2	521.9	524.6	528.3	533.7	530.8	526.7	523.7	520.9	517.7	514.9
15.5°	513.0	516.1	519.3	523.2	529.0	526.0	521.4	518.2	515.1	511.5	508.4
16°	506.9	510.2	513.8	517.7	523.9	520.8	516.0	512.5	509.1	505.1	501.9
16.5°	500.9	504.5	508.2	512.5	518.8	515.5	510.4	506.7	503.1	498.7	495.5
17°	494.6	498.6	502.5	507.0	513.4	510.0	504.7	500.8	496.9	492.4	489.1
17.5°	488.3	492.6	496.6	501.3	507.9	504.4	499.1	494.7	490.7	486.1	482.7
18°	481.9	486.4	490.7	495.4	502.1	498.7	493.1	488.7	484.6	479.8	476.3
18.5°	475.6	480.2	484.7	489.4	496.2	492.8	487.2	482.7	478.4	473.5	470.1
19°	469.3	474.0	478.8	483.5	490.1	486.8	481.3	476.6	471.9	467.3	463.9
19.5°	463.1	467.9	472.8	477.4	484.1	480.8	475.4	470.4	465.8	461.2	458.3
20°	456.8	461.6	466.8	471.3	477.8	474.8	469.5	464.5	459.7	455.1	452.3
20.5°	450.5	455.5	460.7	465.1	471.6	468.7	463.4	458.6	453.4	449.0	446.3
21°	444.2	449.1	454.5	458.8	465.2	462.3	457.3	452.5	447.0	442.9	440.3
21.5°	437.9	442.9	448.4	452.4	458.4	455.6	451.3	446.4	440.6	436.8	434.3
22°	431.4	436.3	441.9	445.6	451.6	449.0	445.2	440.3	434.3	430.7	427.7

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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°	424.7	430.0	435.5	439.2	444.8	442.4	439.2	434.2	428.5	423.9	421.2
23°	417.6	423.2	429.0	431.9	438.0	435.8	433.1	427.4	421.5	416.7	414.4
23.5°	410.4	416.5	422.4	425.2	431.1	429.2	426.2	420.8	414.4	409.5	407.1
24°	402.8	409.5	415.5	417.6	423.2	421.7	419.5	413.9	406.9	402.1	399.3
24.5°	395.2	402.2	408.8	410.4	415.5	414.3	412.6	406.8	399.4	394.2	391.2
25°	387.2	394.6	401.6	402.5	407.5	406.7	405.5	399.6	391.8	386.2	382.7
25.5°	379.3	387.1	394.3	395.0	399.7	399.0	398.1	392.3	384.1	377.9	373.9
26°	371.3	379.2	386.6	387.1	391.9	391.2	390.6	384.7	376.3	369.6	364.6
26.5°	363.6	371.3	378.9	379.2	383.9	383.3	382.7	376.7	368.3	361.1	355.2
27°	355.2	363.2	370.4	371.2	375.9	375.2	374.6	368.6	360.4	352.5	346.1
27.5°	347.0	355.0	361.6	363.0	368.1	367.3	366.2	360.4	352.4	343.6	337.2
28°	338.4	346.8	352.5	354.7	360.2	359.2	357.2	351.8	344.1	334.9	328.4
28.5°	329.9	337.8	343.1	346.1	352.2	350.9	348.3	343.1	335.6	326.0	319.5
29°	320.9	329.2	333.5	337.6	344.0	342.7	338.9	334.0	327.0	317.3	311.1
29.5°	312.1	320.3	323.6	329.0	335.7	334.2	329.4	324.7	318.2	308.7	302.6
30°	302.7	311.0	314.0	320.1	327.0	325.6	319.4	315.0	309.3	300.0	294.1
30.5°	293.7	301.3	304.4	310.8	318.3	316.6	309.7	305.2	300.0	291.3	285.5
31°	284.6	291.9	295.2	301.6	309.6	307.7	300.3	295.5	290.9	282.9	276.7
31.5°	275.7	282.0	286.1	292.4	300.8	298.6	291.1	285.7	281.5	274.4	268.0
32°	266.6	272.5	277.4	283.0	291.9	289.3	282.2	276.3	272.6	266.0	259.1
32.5°	257.9	262.7	268.6	273.8	283.4	280.2	273.4	267.1	263.0	257.4	250.3
33°	249.2	253.7	260.3	264.6	274.7	270.9	265.1	258.1	253.6	249.0	241.3
33.5°	240.4	244.2	251.7	255.4	266.0	261.7	256.6	249.4	244.2	240.3	232.3
34°	231.7	235.6	243.3	246.8	257.1	252.7	248.2	240.8	235.2	231.7	223.8
34.5°	222.9	226.6	234.6	238.2	248.2	243.9	239.8	232.3	225.9	222.9	215.2
35°	212.6	217.9	225.9	229.8	239.3	235.2	231.4	224.1	217.1	214.0	207.1
35.5°	204.4	209.6	217.5	221.6	230.5	226.7	222.8	215.6	208.5	205.3	199.3
36°	196.3	201.3	209.3	213.8	221.4	218.4	214.4	207.1	200.3	196.7	191.6
36.5°	188.2	193.0	201.0	205.7	212.6	210.0	205.9	198.7	191.7	188.2	183.8
37°	180.0	184.6	192.8	197.6	203.8	201.8	197.6	190.4	183.6	180.0	176.4
37.5°	171.6	176.3	184.5	189.5	195.1	193.7	189.3	181.9	175.6	171.7	168.8
38°	163.3	168.8	176.3	181.3	186.7	185.7	181.5	173.8	167.8	163.9	161.3
38.5°	155.3	161.0	168.7	173.3	178.2	177.6	173.7	166.0	160.1	156.3	153.7
39°	147.6	153.7	161.3	165.6	170.0	170.1	166.3	158.3	152.6	148.9	146.5
39.5°	140.0	146.3	153.8	157.8	161.9	162.2	159.0	151.0	145.2	141.3	139.2
40°	132.6	139.2	146.5	150.2	154.1	154.7	151.7	144.0	137.9	133.9	132.1
40.5°	125.6	132.4	139.4	142.8	146.5	146.8	144.5	136.9	130.7	126.8	125.0
41°	118.8	125.5	132.3	135.6	138.9	139.5	137.3	130.2	123.7	119.9	118.3
41.5°	112.0	118.9	125.0	128.5	131.7	132.1	130.2	123.6	117.0	113.1	111.9
42°	105.7	112.6	118.4	121.7	124.7	125.0	123.2	117.2	110.5	106.3	105.7
42.5°	99.6	106.3	111.6	114.9	117.9	117.9	116.2	110.8	104.2	100.0	99.4
43°	93.6	100.1	105.1	108.0	111.2	111.2	109.4	104.7	98.2	93.9	93.4
43.5°	87.8	93.9	98.7	101.4	104.6	104.4	102.9	98.6	92.2	88.0	87.3
44°	82.3	88.0	92.8	94.9	98.2	98.1	96.5	92.7	86.6	82.5	81.7
44.5°	77.0	82.3	86.8	88.6	92.0	91.7	90.3	86.8	81.2	77.1	75.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	71.8	76.9	81.2	82.5	86.1	85.7	84.4	81.2	76.0	71.9	70.4
45.5°	66.8	71.5	75.7	76.4	80.2	79.7	78.7	75.8	70.9	66.9	65.0
46°	62.3	66.5	70.3	70.8	74.6	74.0	73.1	70.5	66.0	62.2	60.3
46.5°	57.7	61.5	65.1	65.2	69.1	68.4	67.8	65.3	61.4	58.1	56.0
47°	53.5	57.0	60.0	60.1	64.0	63.1	62.5	60.4	57.3	54.0	51.7
47.5°	49.3	52.4	55.1	55.0	59.3	58.4	57.9	56.1	53.2	49.9	47.5
48°	45.6	48.3	50.4	50.3	54.6	53.8	53.4	51.8	49.1	45.8	43.2
48.5°	41.8	44.1	45.9	45.9	50.0	49.2	48.8	47.4	45.1	41.7	39.7
49°	38.4	40.4	41.6	41.8	45.3	44.6	44.2	43.1	41.0	38.3	36.6
49.5°	35.1	36.7	37.5	37.8	40.7	40.0	39.6	38.8	37.5	35.0	33.7
50°	31.9	33.3	33.7	34.1	36.6	36.1	35.8	35.2	34.2	32.0	30.9
50.5°	28.9	29.9	30.2	30.6	32.8	32.5	32.2	31.8	31.1	29.2	28.3
51°	26.2	27.0	27.0	27.3	29.4	29.2	28.8	28.5	28.0	26.5	25.9
51.5°	23.5	24.1	24.0	24.3	26.1	26.0	25.8	25.5	25.3	24.0	23.6
52°	21.1	21.5	21.2	21.5	23.1	23.1	22.9	22.7	22.5	21.7	21.4
52.5°	18.9	19.3	19.1	19.3	20.2	20.3	20.2	20.1	20.0	19.4	19.3
53°	16.8	17.1	16.9	17.1	17.7	17.9	17.7	17.6	17.6	17.2	17.2
53.5°	14.7	15.0	14.8	14.9	15.3	15.5	15.4	15.3	15.4	15.2	15.3
54°	12.5	12.8	12.6	12.7	13.2	13.4	13.4	13.2	13.3	13.3	13.4
54.5°	10.8	10.6	10.5	10.5	11.4	11.6	11.6	11.4	11.5	11.5	11.7
55°	9.3	9.1	9.0	9.0	9.9	10.0	10.0	9.8	9.9	9.9	10.1
55.5°	7.9	7.7	7.6	7.6	8.4	8.6	8.6	8.4	8.5	8.5	8.7
56°	6.6	6.3	6.2	6.2	7.0	7.1	7.1	7.5	7.4	7.6	7.3
56.5°	5.3	5.1	5.0	5.0	6.2	6.3	6.3	6.6	6.4	6.6	6.4
57°	4.3	4.1	4.1	4.1	5.4	5.5	5.5	5.7	5.3	5.7	5.6
57.5°	3.5	3.4	3.4	3.4	4.6	4.7	4.7	4.7	4.3	4.7	4.7
58°	3.0	2.9	2.9	2.9	3.8	3.9	3.9	3.8	3.3	3.8	3.8
58.5°	2.6	2.5	2.5	2.6	3.0	3.1	3.0	2.9	2.8	2.8	3.0
59°	2.3	2.2	2.2	2.3	2.6	2.7	2.7	2.5	2.5	2.5	2.5
59.5°	2.1	2.0	2.0	2.1	2.3	2.4	2.4	2.3	2.2	2.2	2.2
60°	1.9	1.8	1.8	1.9	2.1	2.2	2.1	2.0	2.0	1.9	2.0
60.5°	1.7	1.7	1.6	1.7	1.9	2.0	1.9	1.8	1.8	1.7	1.8
61°	1.5	1.5	1.5	1.5	1.7	1.8	1.8	1.7	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°	1.3	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.3
62.5°	1.2	1.1	1.1	1.2	1.3	1.4	1.4	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	1.0	1.0	1.0	1.1	1.2	1.2	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	1.0	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	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8
65.5°	0.7	0.7	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.8	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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	0.6	0.5	0.5	0.5
68.5°	0.5	0.4	0.5	0.5	0.5	0.6	0.6	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	0.5	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	0.4	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	0.3	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	0.2	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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	0.1	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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	0.2	0.2	0.2
142°	0.1	0.1	0.1	0.1	0.2	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	0.3	0.3	0.3	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°	0.2	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	0.2	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	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.2	0.2	0.2	0.2	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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	0.3	0.3	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	0.3	0.2
177.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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: P1590505
CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	599.7	599.7	599.7	599.7	599.7	599.7
0.5°	599.8	599.4	599.6	599.8	599.7	599.8
1°	599.6	599.2	599.4	599.5	599.5	599.6
1.5°	599.4	599.0	599.2	599.2	599.1	599.3
2°	599.1	598.6	598.7	598.5	598.5	598.8
2.5°	598.5	598.3	598.3	597.9	597.8	598.3
3°	597.9	597.9	597.7	597.0	596.8	597.7
3.5°	597.2	597.3	596.9	595.9	595.6	596.8
4°	596.3	596.5	596.1	594.7	594.3	595.7
4.5°	595.1	595.6	595.0	593.3	592.8	594.4
5°	593.8	594.5	593.8	591.7	591.1	593.0
5.5°	592.5	593.3	592.5	590.2	589.4	591.4
6°	590.9	591.8	591.1	588.5	587.5	589.7
6.5°	589.3	590.3	589.5	586.8	585.7	587.7
7°	587.5	588.4	587.7	585.0	583.7	585.7
7.5°	585.5	586.3	585.6	583.3	581.8	583.4
8°	583.3	583.9	583.4	581.0	579.7	581.1
8.5°	581.0	581.1	580.7	578.9	577.5	578.5
9°	578.2	577.9	577.8	576.2	575.0	575.7
9.5°	575.1	574.3	574.4	573.4	572.3	572.6
10°	571.6	570.0	570.4	569.9	569.3	569.4
10.5°	567.5	565.3	565.8	566.2	565.9	565.8
11°	562.9	560.0	560.8	561.8	562.1	561.8
11.5°	557.4	554.1	555.0	556.8	557.7	557.4
12°	551.7	547.7	548.9	551.1	552.6	552.5
12.5°	545.5	541.4	542.5	545.3	547.1	547.5
13°	539.3	534.7	535.9	539.0	541.6	542.2
13.5°	532.8	528.2	529.3	532.6	535.7	536.6
14°	526.2	521.3	522.5	526.0	529.5	530.9
14.5°	519.4	514.5	515.8	519.5	523.2	525.1
15°	512.7	507.5	508.8	512.7	516.8	519.2
15.5°	506.1	500.9	502.2	506.3	510.3	513.0
16°	499.6	494.3	495.7	499.6	503.8	506.9
16.5°	493.0	488.0	489.2	493.3	497.6	500.9
17°	486.6	481.4	482.7	486.9	491.2	494.6
17.5°	480.4	474.9	476.5	480.5	484.9	488.3
18°	474.1	468.5	470.0	474.2	478.4	481.9
18.5°	467.7	462.1	463.6	467.9	472.1	475.6
19°	461.6	455.7	457.5	461.6	465.7	469.3
19.5°	455.7	449.3	451.3	455.5	459.4	463.1
20°	449.8	443.2	445.3	449.3	453.0	456.8
20.5°	443.9	436.9	439.1	443.3	446.8	450.5
21°	437.9	430.9	433.0	437.0	440.5	444.2
21.5°	432.0	424.6	426.9	430.8	434.1	437.9
22°	425.9	418.5	420.8	424.6	427.9	431.4

TEST NUMBER: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	419.6	412.1	414.4	418.3	421.2	424.7
23°	412.8	405.3	407.4	411.5	414.2	417.6
23.5°	405.4	398.0	400.2	404.3	407.1	410.4
24°	397.8	390.0	392.5	396.6	399.4	402.8
24.5°	390.0	381.4	384.6	388.3	391.4	395.2
25°	381.8	373.2	376.2	379.8	382.9	387.2
25.5°	373.2	364.8	367.7	370.9	374.4	379.3
26°	364.7	356.5	359.1	361.7	365.7	371.3
26.5°	355.7	347.8	350.4	352.5	356.8	363.6
27°	346.6	339.7	341.6	343.2	347.5	355.2
27.5°	337.3	331.3	332.4	333.9	338.4	347.0
28°	327.7	322.6	323.3	324.7	329.7	338.4
28.5°	318.4	313.9	314.4	315.6	321.0	329.9
29°	309.3	305.1	305.4	306.7	312.5	320.9
29.5°	300.3	296.0	296.4	298.0	304.2	312.1
30°	291.4	286.7	287.2	289.4	296.0	302.7
30.5°	282.4	277.2	278.0	280.7	287.5	293.7
31°	273.7	268.1	268.8	272.0	279.0	284.6
31.5°	264.9	258.7	259.8	263.4	270.4	275.7
32°	256.3	249.6	250.9	254.7	261.6	266.6
32.5°	247.8	240.6	242.1	246.0	252.7	257.9
33°	239.2	231.8	233.5	237.3	243.8	249.2
33.5°	230.6	222.8	225.2	228.4	234.7	240.4
34°	222.1	213.0	217.3	219.9	225.7	231.7
34.5°	213.6	205.0	209.0	211.8	217.0	222.9
35°	205.4	197.1	200.8	203.7	208.7	212.6
35.5°	197.1	189.2	192.6	195.7	200.5	204.4
36°	189.3	181.3	184.4	187.6	192.3	196.3
36.5°	181.3	173.6	176.2	179.5	184.0	188.2
37°	173.5	166.0	168.4	172.0	175.8	180.0
37.5°	165.8	158.6	160.7	164.4	168.2	171.6
38°	158.4	151.6	153.1	157.2	160.6	163.3
38.5°	151.1	144.6	145.7	149.8	153.0	155.3
39°	144.0	138.0	139.0	142.7	145.6	147.6
39.5°	136.9	131.1	132.2	135.4	138.2	140.0
40°	129.9	124.5	125.6	128.5	130.8	132.6
40.5°	123.3	118.2	119.1	121.5	123.5	125.6
41°	116.8	112.1	113.0	114.8	116.5	118.8
41.5°	110.5	106.2	107.0	108.3	109.6	112.0
42°	104.4	100.6	101.1	102.0	103.1	105.7
42.5°	98.3	95.1	95.4	95.7	96.7	99.6
43°	92.6	89.8	89.9	90.0	90.7	93.6
43.5°	87.1	84.6	84.5	84.0	84.8	87.8
44°	81.8	79.7	79.4	78.5	79.2	82.3
44.5°	76.7	74.8	74.6	73.0	73.7	77.0

TEST NUMBER: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	71.7	70.2	69.8	67.8	68.4	71.8
45.5°	67.0	65.7	65.3	62.8	63.5	66.8
46°	62.4	61.5	61.0	58.1	58.8	62.3
46.5°	58.2	57.3	56.8	53.6	54.2	57.7
47°	54.2	53.3	52.8	49.5	50.0	53.5
47.5°	50.3	49.5	48.9	45.7	46.0	49.3
48°	46.4	45.8	45.2	42.1	42.4	45.6
48.5°	42.5	42.4	41.8	38.8	39.0	41.8
49°	39.1	39.1	38.5	35.8	35.7	38.4
49.5°	35.8	35.9	35.3	33.0	32.9	35.1
50°	32.9	32.8	32.2	30.3	30.2	31.9
50.5°	30.0	29.9	29.4	27.8	27.6	28.9
51°	27.3	27.2	26.7	25.4	25.2	26.2
51.5°	24.7	24.5	24.2	23.1	22.9	23.5
52°	22.4	22.0	21.8	20.9	20.9	21.1
52.5°	20.0	19.9	19.8	19.0	18.9	18.9
53°	17.9	17.9	17.7	17.0	16.9	16.8
53.5°	15.9	15.8	15.7	15.1	14.9	14.7
54°	13.9	13.7	13.7	13.1	12.9	12.5
54.5°	12.1	11.6	11.7	11.5	11.2	10.8
55°	10.5	10.0	10.1	10.0	9.6	9.3
55.5°	9.1	8.6	8.7	8.6	8.3	7.9
56°	7.7	7.2	7.3	7.2	6.9	6.6
56.5°	6.7	5.9	6.1	5.9	5.7	5.3
57°	5.8	4.9	5.0	4.8	4.6	4.3
57.5°	4.9	4.1	4.2	4.0	3.8	3.5
58°	4.0	3.5	3.6	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	2.2	2.1
60°	2.1	2.2	2.2	2.2	2.0	1.9
60.5°	1.9	2.0	2.0	2.0	1.8	1.7
61°	1.7	1.8	1.9	1.8	1.6	1.5
61.5°	1.6	1.7	1.7	1.6	1.5	1.4
62°	1.4	1.5	1.5	1.5	1.3	1.3
62.5°	1.3	1.4	1.4	1.4	1.2	1.2
63°	1.2	1.3	1.3	1.2	1.1	1.1
63.5°	1.1	1.2	1.2	1.2	1.1	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	0.9	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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	0.5	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	0.4	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	0.2	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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°	0.1	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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°	0.3	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	0.2	0.2	0.1
153.5°	0.3	0.1	0.1	0.2	0.2	0.2
154°	0.3	0.1	0.2	0.2	0.2	0.2
154.5°	0.3	0.2	0.2	0.2	0.2	0.2
155°	0.3	0.2	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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°	0.3	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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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: P1590505

CATALOG NUMBER: HCDLS510CSD4TRC-LO-4000K

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

(END OF REPORT)