

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: P1590540

Luminaire Tested: HCDLS510CSD4TRMW-ME-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590540
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: HCDLS510CSD4TRMW-ME-4000K
Description: 4" Selectable Round Trim+Matte White (paintable) 700 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

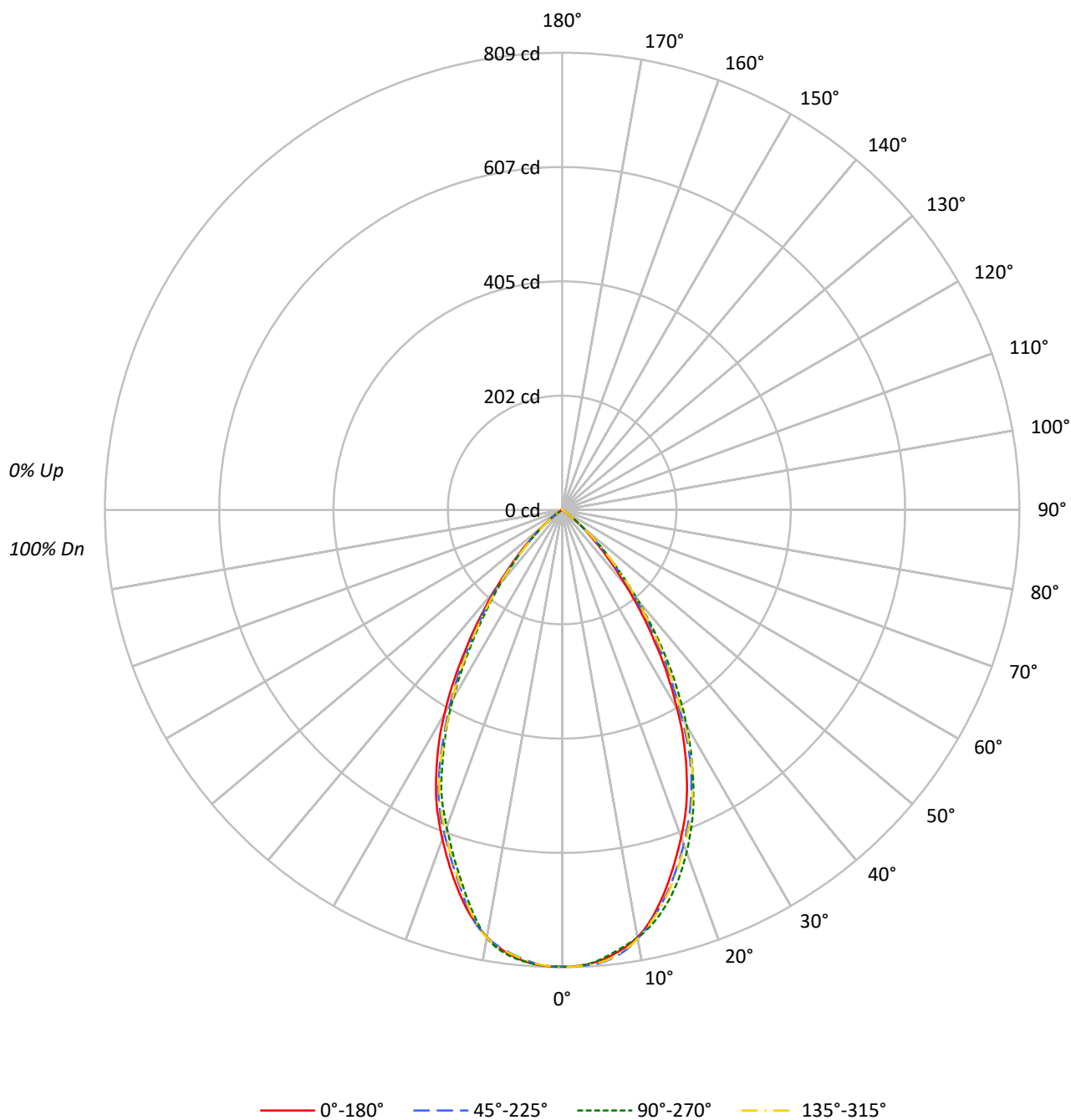
Lumens per Lamp: N/A
Luminaire Lumens: 790.5 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
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

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	99700	99700	99700	99700
5°	98967	98756	99078	99202
10°	96128	96253	96103	96228
15°	89349	91865	89656	87357
20°	80818	84533	81330	78416
25°	71029	74758	71873	68457
30°	58110	62782	59364	55048
35°	43140	48576	44059	40008
40°	28774	33443	29933	27019
45°	16886	20252	17862	16502
50°	8251	9479	8846	8501
55°	2688	2860	2860	2903
60°	617	691	641	715
65°	292	350	321	379
70°	180	216	180	216
75°	95	143	95	143
80°	71	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20252 cd/sqm

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	9.5
10°-20°	195.7	24.8
20°-30°	239.1	30.3
30°-40°	182.2	23.0
40°-50°	81.2	10.3
50°-60°	14.7	1.9
60°-70°	1.3	0.2
70°-80°	0.3	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°	510.3	64.6
0°-40°	692.5	87.6
0°-60°	788.4	99.7
0°-90°	790.0	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	790.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	808	808	808	808	808	
5°	799	798	800	801	799	75
15°	700	719	702	684	700	195
25°	522	549	528	503	522	237
35°	286	323	293	266	286	179
45°	97	116	102	95	97	77
55°	12	13	13	14	12	14
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3
0.5°	808.5	808.2	808.3	808.5	808.2	808.3	808.6	808.5	808.5	808.2	808.2
1°	808.1	808.1	808.3	808.5	808.2	808.3	808.4	808.4	808.2	807.9	807.9
1.5°	807.7	807.8	808.1	808.2	807.9	808.1	808.2	808.1	807.9	807.5	807.5
2°	807.1	807.4	807.9	807.8	807.4	807.6	807.9	807.8	807.4	806.7	806.9
2.5°	806.4	807.1	807.6	807.2	806.7	806.9	807.6	807.4	806.6	805.9	806.0
3°	805.6	806.7	807.1	806.4	805.6	806.1	806.9	806.9	805.9	804.7	804.8
3.5°	804.4	806.2	806.5	805.3	804.2	804.9	806.1	806.2	804.9	803.2	803.3
4°	803.0	805.5	805.9	803.9	802.3	803.4	805.4	805.5	803.6	801.3	801.5
4.5°	801.2	804.5	805.0	802.1	800.0	801.5	804.2	804.5	802.1	799.2	799.5
5°	799.3	803.3	803.6	799.9	797.6	799.1	802.7	803.4	800.2	796.8	797.3
5.5°	797.1	801.7	802.0	797.6	794.9	796.7	800.9	801.8	798.2	794.3	795.1
6°	794.8	799.7	800.1	795.0	792.0	794.0	798.9	800.0	795.8	791.7	792.6
6.5°	792.2	797.4	797.9	792.4	789.1	791.2	796.6	797.8	793.1	789.0	790.1
7°	789.4	794.6	795.1	789.5	786.3	788.4	793.9	795.1	790.2	786.1	787.5
7.5°	786.3	791.5	792.0	786.5	783.4	785.3	790.9	792.1	787.3	783.1	784.8
8°	783.3	788.1	788.5	783.1	780.5	782.2	787.5	788.5	783.8	780.2	781.9
8.5°	779.7	784.2	784.6	779.7	777.6	779.2	783.6	784.7	780.1	776.8	778.8
9°	776.0	779.9	780.2	776.0	774.6	775.7	779.4	780.3	776.2	773.4	775.4
9.5°	771.8	775.1	775.5	772.1	771.6	772.1	774.9	775.5	772.1	769.7	771.7
10°	767.5	770.1	770.4	768.0	768.5	768.2	770.0	770.4	767.3	765.7	767.5
10.5°	762.6	764.6	764.9	763.5	765.0	764.2	764.9	764.8	762.3	760.9	762.6
11°	757.2	758.9	759.2	758.7	761.1	759.8	759.4	759.2	757.0	756.0	757.1
11.5°	751.3	752.6	753.3	753.8	757.0	755.2	753.8	753.2	751.3	750.4	751.0
12°	744.7	746.2	747.2	748.2	752.7	750.3	748.1	747.0	745.3	744.0	743.9
12.5°	737.9	739.5	740.7	742.9	747.7	745.0	742.2	740.6	738.5	737.0	735.9
13°	730.8	732.7	734.3	737.1	742.8	739.6	736.0	733.8	732.0	729.8	728.2
13.5°	723.3	725.6	727.7	731.3	737.3	734.2	729.7	727.2	724.9	722.1	720.0
14°	715.6	718.3	721.0	724.9	731.5	728.1	723.2	720.1	717.6	714.2	711.5
14.5°	707.8	710.9	714.2	718.7	725.5	722.0	716.4	713.1	709.8	706.1	702.9
15°	699.7	703.4	707.1	712.1	719.4	715.5	709.9	705.9	702.1	697.8	694.1
15.5°	691.4	695.6	699.9	705.2	713.0	708.9	702.7	698.4	694.3	689.4	685.2
16°	683.3	687.7	692.5	697.8	706.2	701.9	695.5	690.7	686.2	680.7	676.4
16.5°	675.1	679.9	685.0	690.7	699.2	694.8	687.9	682.9	678.1	672.2	667.8
17°	666.7	672.0	677.3	683.3	692.0	687.4	680.3	675.0	669.7	663.7	659.2
17.5°	658.1	663.9	669.4	675.7	684.6	679.9	672.6	666.7	661.4	655.2	650.5
18°	649.5	655.6	661.3	667.7	676.7	672.2	664.6	658.6	653.1	646.7	642.0
18.5°	641.1	647.3	653.3	659.7	668.8	664.2	656.6	650.6	644.8	638.2	633.6
19°	632.6	638.9	645.4	651.6	660.6	656.2	648.7	642.4	636.1	629.9	625.2
19.5°	624.2	630.6	637.3	643.4	652.5	648.0	640.7	634.0	627.8	621.7	617.7
20°	615.7	622.1	629.2	635.2	644.0	639.9	632.8	626.0	619.6	613.4	609.6
20.5°	607.2	613.9	620.9	626.9	635.6	631.7	624.5	618.1	611.1	605.2	601.5
21°	598.7	605.3	612.6	618.4	627.0	623.0	616.4	609.9	602.5	596.9	593.5
21.5°	590.3	596.9	604.3	609.7	617.8	614.1	608.2	601.7	593.9	588.7	585.4
22°	581.4	588.1	595.6	600.6	608.6	605.2	600.1	593.4	585.3	580.5	576.5

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	572.5	579.6	587.0	591.9	599.5	596.3	591.9	585.2	577.5	571.3	567.7
23°	562.8	570.4	578.3	582.2	590.3	587.4	583.8	576.1	568.1	561.6	558.5
23.5°	553.2	561.4	569.4	573.0	581.1	578.4	574.5	567.1	558.5	551.9	548.8
24°	543.0	551.9	560.0	562.9	570.4	568.4	565.5	557.9	548.5	541.9	538.2
24.5°	532.6	542.1	550.9	553.1	560.0	558.4	556.1	548.3	538.4	531.3	527.2
25°	521.9	531.9	541.3	542.5	549.3	548.2	546.5	538.6	528.1	520.5	515.8
25.5°	511.3	521.7	531.4	532.5	538.8	537.8	536.6	528.8	517.7	509.4	503.9
26°	500.5	511.1	521.1	521.8	528.2	527.3	526.5	518.5	507.2	498.2	491.4
26.5°	490.0	500.4	510.6	511.0	517.4	516.6	515.9	507.7	496.4	486.7	478.8
27°	478.8	489.5	499.2	500.2	506.6	505.7	504.9	496.8	485.7	475.1	466.4
27.5°	467.7	478.5	487.4	489.2	496.2	495.0	493.6	485.7	475.0	463.1	454.5
28°	456.2	467.4	475.2	478.1	485.5	484.2	481.5	474.2	463.8	451.4	442.6
28.5°	444.6	455.3	462.4	466.5	474.7	472.9	469.4	462.4	452.4	439.4	430.6
29°	432.5	443.8	449.5	455.0	463.7	461.9	456.8	450.2	440.8	427.6	419.3
29.5°	420.6	431.7	436.2	443.5	452.5	450.4	443.9	437.6	428.9	416.1	407.8
30°	408.0	419.2	423.2	431.4	440.8	438.8	430.5	424.6	416.8	404.4	396.4
30.5°	395.8	406.1	410.3	418.9	429.1	426.7	417.4	411.4	404.3	392.7	384.8
31°	383.6	393.5	397.8	406.5	417.2	414.7	404.7	398.3	392.1	381.3	373.0
31.5°	371.6	380.1	385.6	394.0	405.4	402.4	392.3	385.1	379.4	369.8	361.2
32°	359.4	367.3	373.9	381.4	393.5	390.0	380.4	372.4	367.5	358.5	349.2
32.5°	347.6	354.1	362.1	369.0	381.9	377.7	368.5	360.1	354.5	346.9	337.3
33°	335.8	342.0	350.8	356.6	370.3	365.1	357.3	347.9	341.8	335.7	325.2
33.5°	324.0	329.2	339.3	344.3	358.5	352.7	345.8	336.1	329.2	323.9	313.1
34°	312.3	317.5	327.9	332.6	346.5	340.6	334.6	324.6	317.0	312.3	301.7
34.5°	300.4	305.4	316.1	321.0	334.5	328.7	323.2	313.2	304.5	300.5	290.0
35°	286.5	293.7	304.5	309.7	322.6	317.1	311.9	302.1	292.6	288.4	279.2
35.5°	275.6	282.5	293.2	298.7	310.6	305.6	300.4	290.6	281.0	276.6	268.6
36°	264.6	271.3	282.1	288.2	298.4	294.4	288.9	279.2	269.9	265.1	258.2
36.5°	253.6	260.1	270.9	277.3	286.5	283.0	277.6	267.8	258.4	253.7	247.7
37°	242.6	248.9	259.8	266.3	274.6	272.0	266.3	256.6	247.4	242.5	237.7
37.5°	231.3	237.7	248.7	255.4	263.0	261.0	255.1	245.2	236.7	231.5	227.5
38°	220.1	227.5	237.6	244.4	251.6	250.3	244.7	234.3	226.2	221.0	217.4
38.5°	209.3	217.0	227.3	233.6	240.1	239.4	234.1	223.7	215.7	210.7	207.2
39°	199.0	207.2	217.5	223.2	229.1	229.2	224.2	213.4	205.7	200.6	197.4
39.5°	188.7	197.2	207.3	212.7	218.3	218.6	214.3	203.5	195.7	190.4	187.6
40°	178.7	187.6	197.5	202.5	207.7	208.5	204.5	194.1	185.9	180.5	178.0
40.5°	169.3	178.5	187.9	192.4	197.4	197.9	194.7	184.6	176.2	170.9	168.5
41°	160.1	169.2	178.3	182.7	187.2	188.0	185.1	175.5	166.7	161.6	159.5
41.5°	151.0	160.2	168.5	173.2	177.6	178.0	175.5	166.6	157.7	152.4	150.8
42°	142.5	151.8	159.5	164.0	168.1	168.5	166.0	158.0	148.9	143.3	142.5
42.5°	134.2	143.3	150.4	154.9	158.9	159.0	156.6	149.4	140.4	134.8	134.0
43°	126.2	134.9	141.7	145.6	149.9	149.9	147.5	141.1	132.3	126.6	125.8
43.5°	118.3	126.5	133.0	136.7	141.0	140.7	138.6	132.8	124.2	118.6	117.6
44°	111.0	118.6	125.1	127.9	132.3	132.2	130.1	124.9	116.7	111.1	110.1
44.5°	103.7	110.9	117.1	119.4	124.0	123.7	121.7	117.0	109.4	103.9	102.2

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	96.8	103.6	109.4	111.2	116.1	115.6	113.8	109.5	102.4	96.9	94.8
45.5°	90.1	96.4	102.1	103.0	108.1	107.4	106.1	102.1	95.6	90.2	87.7
46°	84.0	89.6	94.8	95.4	100.6	99.8	98.5	95.1	88.9	83.9	81.3
46.5°	77.8	82.8	87.7	87.9	93.1	92.2	91.4	88.1	82.7	78.3	75.5
47°	72.1	76.8	80.9	81.0	86.2	85.0	84.3	81.5	77.2	72.8	69.7
47.5°	66.5	70.6	74.2	74.2	79.9	78.8	78.1	75.6	71.7	67.3	64.0
48°	61.4	65.1	67.9	67.8	73.6	72.5	71.9	69.8	66.2	61.7	58.3
48.5°	56.4	59.4	61.8	61.8	67.3	66.3	65.8	64.0	60.8	56.2	53.6
49°	51.7	54.4	56.1	56.3	61.0	60.1	59.6	58.1	55.3	51.6	49.3
49.5°	47.3	49.5	50.5	51.0	54.8	53.9	53.4	52.3	50.6	47.2	45.4
50°	43.0	44.9	45.4	45.9	49.4	48.7	48.2	47.5	46.1	43.2	41.7
50.5°	39.0	40.4	40.7	41.2	44.2	43.8	43.4	42.8	41.9	39.3	38.2
51°	35.3	36.3	36.4	36.8	39.6	39.3	38.9	38.5	37.8	35.8	34.9
51.5°	31.7	32.5	32.3	32.7	35.1	35.1	34.7	34.4	34.0	32.4	31.9
52°	28.4	28.9	28.6	29.0	31.1	31.1	30.8	30.6	30.4	29.2	28.9
52.5°	25.5	26.0	25.7	26.0	27.3	27.4	27.2	27.1	27.0	26.2	26.0
53°	22.6	23.1	22.8	23.0	23.8	24.1	23.9	23.7	23.7	23.2	23.2
53.5°	19.8	20.2	19.9	20.0	20.6	20.9	20.8	20.7	20.8	20.5	20.6
54°	16.9	17.2	17.0	17.1	17.8	18.1	18.1	17.8	18.0	17.9	18.1
54.5°	14.6	14.3	14.1	14.1	15.4	15.6	15.6	15.4	15.5	15.5	15.8
55°	12.5	12.3	12.1	12.1	13.3	13.5	13.5	13.3	13.3	13.4	13.7
55.5°	10.7	10.4	10.2	10.2	11.4	11.6	11.6	11.3	11.4	11.5	11.8
56°	8.8	8.5	8.4	8.3	9.5	9.6	9.6	10.1	10.0	10.2	9.9
56.5°	7.2	6.9	6.8	6.8	8.4	8.5	8.5	8.9	8.6	8.9	8.7
57°	5.8	5.6	5.5	5.5	7.3	7.4	7.4	7.6	7.2	7.6	7.5
57.5°	4.8	4.6	4.5	4.6	6.2	6.3	6.3	6.4	5.8	6.4	6.3
58°	4.1	3.9	3.9	4.0	5.1	5.2	5.2	5.2	4.4	5.1	5.1
58.5°	3.5	3.4	3.4	3.4	4.0	4.2	4.1	3.9	3.8	3.8	4.0
59°	3.1	3.0	3.0	3.0	3.5	3.7	3.6	3.4	3.3	3.3	3.4
59.5°	2.8	2.7	2.7	2.8	3.1	3.3	3.2	3.1	2.9	2.9	3.0
60°	2.5	2.5	2.5	2.5	2.8	2.9	2.9	2.7	2.6	2.6	2.7
60.5°	2.3	2.2	2.2	2.3	2.6	2.7	2.6	2.5	2.4	2.3	2.4
61°	2.0	2.0	2.0	2.1	2.3	2.4	2.4	2.2	2.1	2.1	2.2
61.5°	1.9	1.8	1.8	1.9	2.1	2.2	2.2	2.0	1.9	1.9	2.0
62°	1.7	1.7	1.7	1.7	1.9	2.0	2.0	1.9	1.8	1.8	1.8
62.5°	1.6	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.7
63°	1.4	1.4	1.4	1.5	1.6	1.7	1.7	1.6	1.5	1.5	1.5
63.5°	1.3	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.4
64°	1.2	1.2	1.2	1.2	1.4	1.5	1.4	1.3	1.3	1.3	1.3
64.5°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2
65°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.2	1.1	1.1	1.1
65.5°	1.0	0.9	1.0	1.0	1.1	1.2	1.2	1.1	1.0	1.0	1.0
66°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.0	1.0	0.9	1.0
66.5°	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9
67°	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.8	0.8	0.8

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.7	0.7	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.8	0.8
68°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
68.5°	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.7
69°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
69.5°	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6
70°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5
70.5°	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
71°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
72°	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
72.5°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
73°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3
74°	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
78°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
80.5°	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
81°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
81.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	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: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1	0.1	0.1	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: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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	0.2	0.2	0.2
138°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
141°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
141.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	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°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
145.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
148.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
149.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
150.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
151.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
152.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
153.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
154°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
154.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
156°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
156.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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	0.4	0.4	0.4	0.4	0.4	0.4	0.4
158°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
158.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
159.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
161°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
161.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
162.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
163.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
164.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
165.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
166.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
167.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
168.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
169.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
170.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
171.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
172.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
173.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
174.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
175.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4
176°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3
177.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P1590540
CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	808.3	808.3	808.3	808.3	808.3	808.3
0.5°	808.4	807.8	808.1	808.4	808.3	808.5
1°	808.2	807.6	807.9	808.1	808.0	808.1
1.5°	807.8	807.3	807.6	807.6	807.4	807.7
2°	807.4	806.9	807.0	806.7	806.6	807.1
2.5°	806.6	806.4	806.4	805.9	805.8	806.4
3°	805.9	805.9	805.6	804.7	804.4	805.6
3.5°	804.9	805.0	804.6	803.2	802.7	804.4
4°	803.7	803.9	803.4	801.5	801.0	803.0
4.5°	802.0	802.7	802.0	799.7	799.0	801.2
5°	800.3	801.2	800.4	797.6	796.7	799.3
5.5°	798.5	799.6	798.6	795.4	794.4	797.1
6°	796.5	797.7	796.7	793.2	791.8	794.8
6.5°	794.2	795.6	794.5	791.0	789.5	792.2
7°	791.8	793.0	792.2	788.5	786.8	789.4
7.5°	789.2	790.2	789.3	786.1	784.2	786.3
8°	786.2	787.0	786.3	783.1	781.4	783.3
8.5°	783.1	783.3	782.7	780.2	778.4	779.7
9°	779.3	778.9	778.7	776.7	775.1	776.0
9.5°	775.2	774.1	774.1	772.9	771.4	771.8
10°	770.4	768.3	768.8	768.2	767.3	767.5
10.5°	764.8	762.0	762.6	763.2	762.8	762.6
11°	758.7	754.8	755.8	757.2	757.6	757.2
11.5°	751.3	746.8	748.1	750.5	751.7	751.3
12°	743.6	738.2	739.8	742.8	744.8	744.7
12.5°	735.3	729.7	731.3	734.9	737.4	737.9
13°	726.9	720.7	722.3	726.5	730.0	730.8
13.5°	718.1	711.9	713.4	717.8	722.0	723.3
14°	709.2	702.6	704.3	709.0	713.6	715.6
14.5°	700.1	693.5	695.2	700.2	705.2	707.8
15°	691.0	684.1	685.8	691.0	696.6	699.7
15.5°	682.1	675.1	676.8	682.4	687.8	691.4
16°	673.3	666.2	668.1	673.4	679.0	683.3
16.5°	664.5	657.7	659.4	664.9	670.7	675.1
17°	655.9	648.8	650.6	656.3	662.0	666.7
17.5°	647.5	640.1	642.2	647.6	653.6	658.1
18°	639.0	631.4	633.5	639.1	644.9	649.5
18.5°	630.3	622.8	624.9	630.7	636.3	641.1
19°	622.2	614.2	616.7	622.2	627.6	632.6
19.5°	614.2	605.5	608.3	613.9	619.2	624.2
20°	606.2	597.4	600.2	605.6	610.6	615.7
20.5°	598.2	588.8	591.9	597.6	602.2	607.2
21°	590.3	580.7	583.6	589.0	593.7	598.7
21.5°	582.3	572.3	575.4	580.7	585.1	590.3
22°	574.1	564.0	567.2	572.2	576.7	581.4

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	565.6	555.5	558.5	563.8	567.7	572.5
23°	556.3	546.3	549.2	554.6	558.2	562.8
23.5°	546.3	536.4	539.4	544.9	548.7	553.2
24°	536.2	525.7	529.1	534.5	538.4	543.0
24.5°	525.6	514.0	518.3	523.3	527.5	532.6
25°	514.6	503.0	507.0	511.9	516.1	521.9
25.5°	503.1	491.7	495.6	499.9	504.7	511.3
26°	491.5	480.5	484.0	487.5	492.9	500.5
26.5°	479.5	468.8	472.3	475.2	480.9	490.0
27°	467.1	457.8	460.4	462.6	468.3	478.8
27.5°	454.6	446.5	448.1	450.0	456.1	467.7
28°	441.7	434.8	435.8	437.6	444.4	456.2
28.5°	429.1	423.1	423.7	425.4	432.7	444.6
29°	416.8	411.2	411.6	413.4	421.3	432.5
29.5°	404.7	398.9	399.5	401.6	410.0	420.6
30°	392.7	386.5	387.0	390.0	398.9	408.0
30.5°	380.6	373.6	374.7	378.3	387.5	395.8
31°	368.9	361.3	362.3	366.6	376.1	383.6
31.5°	357.1	348.6	350.1	355.0	364.5	371.6
32°	345.5	336.4	338.1	343.3	352.5	359.4
32.5°	334.0	324.3	326.3	331.6	340.6	347.6
33°	322.4	312.5	314.8	319.8	328.6	335.8
33.5°	310.7	300.4	303.5	307.8	316.4	324.0
34°	299.3	287.0	292.8	296.4	304.2	312.3
34.5°	287.9	276.3	281.8	285.5	292.5	300.4
35°	276.9	265.7	270.7	274.6	281.4	286.5
35.5°	265.7	255.0	259.6	263.7	270.3	275.6
36°	255.1	244.3	248.5	252.9	259.2	264.6
36.5°	244.4	234.0	237.5	242.0	248.1	253.6
37°	233.9	223.7	226.9	231.8	237.0	242.6
37.5°	223.5	213.8	216.6	221.6	226.7	231.3
38°	213.4	204.3	206.3	211.9	216.5	220.1
38.5°	203.6	195.0	196.4	201.9	206.2	209.3
39°	194.1	185.9	187.4	192.3	196.2	199.0
39.5°	184.6	176.7	178.2	182.5	186.2	188.7
40°	175.1	167.8	169.2	173.1	176.3	178.7
40.5°	166.2	159.3	160.6	163.8	166.4	169.3
41°	157.4	151.1	152.3	154.7	157.1	160.1
41.5°	149.0	143.2	144.2	146.0	147.7	151.0
42°	140.7	135.5	136.3	137.5	139.0	142.5
42.5°	132.5	128.2	128.6	128.9	130.3	134.2
43°	124.8	121.1	121.1	121.3	122.3	126.2
43.5°	117.3	114.1	114.0	113.3	114.3	118.3
44°	110.2	107.4	107.1	105.8	106.7	111.0
44.5°	103.3	100.9	100.5	98.4	99.3	103.7

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	96.6	94.6	94.0	91.4	92.3	96.8
45.5°	90.3	88.6	88.0	84.7	85.6	90.1
46°	84.1	82.9	82.2	78.3	79.3	84.0
46.5°	78.4	77.3	76.5	72.3	73.1	77.8
47°	73.1	71.9	71.1	66.8	67.4	72.1
47.5°	67.9	66.7	65.9	61.6	62.1	66.5
48°	62.6	61.8	61.0	56.7	57.1	61.4
48.5°	57.3	57.2	56.3	52.3	52.6	56.4
49°	52.7	52.7	51.8	48.2	48.2	51.7
49.5°	48.3	48.4	47.6	44.4	44.4	47.3
50°	44.3	44.3	43.5	40.8	40.7	43.0
50.5°	40.4	40.3	39.6	37.4	37.2	39.0
51°	36.8	36.6	36.0	34.2	33.9	35.3
51.5°	33.4	33.0	32.6	31.2	30.9	31.7
52°	30.1	29.7	29.4	28.2	28.2	28.4
52.5°	27.0	26.9	26.6	25.6	25.5	25.5
53°	24.1	24.1	23.9	22.9	22.8	22.6
53.5°	21.4	21.3	21.2	20.3	20.1	19.8
54°	18.7	18.5	18.5	17.7	17.3	16.9
54.5°	16.3	15.7	15.7	15.5	15.0	14.6
55°	14.1	13.5	13.6	13.4	13.0	12.5
55.5°	12.2	11.7	11.8	11.5	11.2	10.7
56°	10.3	9.8	9.9	9.7	9.3	8.8
56.5°	9.1	8.0	8.2	8.0	7.6	7.2
57°	7.9	6.6	6.7	6.5	6.2	5.8
57.5°	6.6	5.5	5.6	5.4	5.1	4.8
58°	5.4	4.7	4.8	4.6	4.4	4.1
58.5°	4.2	4.1	4.2	4.0	3.8	3.5
59°	3.6	3.6	3.7	3.5	3.3	3.1
59.5°	3.2	3.2	3.3	3.1	2.9	2.8
60°	2.9	2.9	2.9	2.9	2.7	2.5
60.5°	2.6	2.7	2.7	2.7	2.4	2.3
61°	2.3	2.5	2.5	2.5	2.2	2.0
61.5°	2.1	2.2	2.3	2.2	2.0	1.9
62°	1.9	2.0	2.1	2.0	1.8	1.7
62.5°	1.8	1.8	1.9	1.8	1.7	1.6
63°	1.6	1.7	1.8	1.7	1.5	1.4
63.5°	1.5	1.6	1.6	1.6	1.4	1.3
64°	1.4	1.5	1.5	1.4	1.3	1.2
64.5°	1.3	1.4	1.4	1.3	1.2	1.1
65°	1.2	1.3	1.3	1.2	1.1	1.0
65.5°	1.1	1.2	1.2	1.1	1.0	1.0
66°	1.0	1.1	1.1	1.1	1.0	0.9
66.5°	1.0	1.0	1.0	1.0	0.9	0.8
67°	0.9	0.9	1.0	0.9	0.8	0.8

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.8	0.9	0.9	0.9	0.8	0.7
68°	0.8	0.8	0.8	0.8	0.7	0.7
68.5°	0.7	0.8	0.8	0.7	0.7	0.6
69°	0.7	0.7	0.7	0.7	0.6	0.6
69.5°	0.6	0.7	0.7	0.6	0.6	0.5
70°	0.6	0.6	0.6	0.6	0.5	0.5
70.5°	0.5	0.6	0.6	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.4
71.5°	0.5	0.5	0.5	0.5	0.4	0.4
72°	0.4	0.5	0.5	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.3
73°	0.4	0.4	0.4	0.4	0.3	0.3
73.5°	0.3	0.4	0.4	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.2
75°	0.3	0.3	0.3	0.3	0.2	0.2
75.5°	0.2	0.3	0.3	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.1
77.5°	0.2	0.2	0.2	0.2	0.1	0.1
78°	0.1	0.2	0.2	0.2	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	0.1
80.5°	0.1	0.1	0.1	0.1	0.1	0.1
81°	0.1	0.1	0.1	0.1	0.1	0.0
81.5°	0.1	0.1	0.1	0.1	0.0	0.0
82°	0.0	0.0	0.1	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: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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	0.1	0.1	0.0	0.0	0.0
127°	0.1	0.1	0.1	0.1	0.1	0.0
127.5°	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1	0.1	0.1
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: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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°	0.2	0.1	0.1	0.1	0.1	0.1
137.5°	0.2	0.1	0.1	0.1	0.1	0.1
138°	0.2	0.1	0.1	0.1	0.1	0.1
138.5°	0.2	0.1	0.1	0.1	0.1	0.1
139°	0.2	0.1	0.1	0.1	0.1	0.1
139.5°	0.2	0.1	0.1	0.1	0.1	0.1
140°	0.2	0.1	0.1	0.1	0.1	0.1
140.5°	0.2	0.1	0.1	0.1	0.1	0.1
141°	0.2	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	0.2	0.2	0.2	0.1	0.1
143.5°	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.3	0.2	0.2	0.2	0.2	0.2
145.5°	0.3	0.2	0.2	0.2	0.2	0.2
146°	0.3	0.2	0.2	0.2	0.2	0.2
146.5°	0.3	0.2	0.2	0.2	0.2	0.2
147°	0.3	0.2	0.2	0.2	0.2	0.2
147.5°	0.3	0.2	0.2	0.2	0.2	0.2
148°	0.3	0.2	0.2	0.2	0.2	0.2
148.5°	0.3	0.2	0.2	0.2	0.2	0.2
149°	0.3	0.2	0.2	0.2	0.2	0.2
149.5°	0.3	0.2	0.2	0.2	0.2	0.2
150°	0.3	0.2	0.2	0.2	0.2	0.2
150.5°	0.3	0.2	0.2	0.2	0.2	0.2
151°	0.3	0.2	0.2	0.2	0.2	0.2
151.5°	0.3	0.2	0.2	0.2	0.2	0.2
152°	0.3	0.2	0.2	0.2	0.2	0.2
152.5°	0.3	0.2	0.2	0.2	0.2	0.2
153°	0.4	0.2	0.2	0.2	0.2	0.2
153.5°	0.4	0.2	0.2	0.2	0.2	0.2
154°	0.4	0.2	0.2	0.2	0.2	0.2
154.5°	0.4	0.2	0.2	0.2	0.2	0.2
155°	0.4	0.2	0.2	0.2	0.2	0.2
155.5°	0.4	0.2	0.2	0.2	0.2	0.2
156°	0.4	0.2	0.2	0.2	0.2	0.2
156.5°	0.4	0.2	0.2	0.2	0.2	0.2
157°	0.4	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.4	0.2	0.2	0.2	0.2	0.2
158°	0.4	0.2	0.2	0.2	0.2	0.2
158.5°	0.4	0.2	0.2	0.2	0.2	0.2
159°	0.4	0.2	0.2	0.2	0.2	0.2
159.5°	0.4	0.2	0.2	0.2	0.2	0.2
160°	0.4	0.2	0.2	0.2	0.2	0.2
160.5°	0.4	0.2	0.2	0.2	0.2	0.2
161°	0.4	0.2	0.2	0.2	0.2	0.2
161.5°	0.4	0.2	0.2	0.2	0.2	0.2
162°	0.4	0.2	0.2	0.2	0.2	0.2
162.5°	0.4	0.2	0.2	0.2	0.2	0.2
163°	0.4	0.2	0.2	0.2	0.2	0.2
163.5°	0.4	0.2	0.2	0.2	0.2	0.2
164°	0.4	0.2	0.2	0.2	0.2	0.2
164.5°	0.4	0.2	0.2	0.2	0.2	0.2
165°	0.4	0.2	0.2	0.2	0.2	0.2
165.5°	0.4	0.2	0.2	0.2	0.2	0.2
166°	0.4	0.2	0.2	0.2	0.2	0.2
166.5°	0.4	0.2	0.2	0.2	0.2	0.2
167°	0.4	0.2	0.2	0.2	0.2	0.2
167.5°	0.4	0.2	0.2	0.2	0.2	0.2
168°	0.4	0.2	0.2	0.2	0.2	0.2
168.5°	0.4	0.2	0.2	0.2	0.2	0.2
169°	0.4	0.2	0.2	0.2	0.2	0.2
169.5°	0.4	0.2	0.2	0.2	0.2	0.2
170°	0.4	0.2	0.2	0.2	0.2	0.2
170.5°	0.4	0.2	0.2	0.2	0.2	0.2
171°	0.4	0.2	0.2	0.2	0.2	0.2
171.5°	0.4	0.2	0.2	0.2	0.2	0.2
172°	0.4	0.2	0.2	0.2	0.2	0.2
172.5°	0.4	0.2	0.2	0.2	0.2	0.2
173°	0.4	0.2	0.2	0.2	0.2	0.2
173.5°	0.4	0.2	0.2	0.2	0.2	0.2
174°	0.4	0.2	0.2	0.2	0.2	0.2
174.5°	0.4	0.2	0.2	0.2	0.2	0.2
175°	0.4	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°	0.3	0.2	0.3	0.3	0.3	0.2
177.5°	0.3	0.3	0.3	0.3	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3
179°	0.3	0.3	0.3	0.3	0.3	0.3
179.5°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590540

CATALOG NUMBER: HCDLS510CSD4TRMW-ME-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	1.5	2.5	1.9	2.9	3.2	2.5	3.5	2.9	3.8	4.2
	3H	1.4	2.3	1.8	2.7	3.0	2.4	3.3	2.8	3.7	4.0
	4H	1.4	2.2	1.8	2.6	2.9	2.3	3.2	2.8	3.5	3.9
	6H	1.3	2.0	1.7	2.4	2.8	2.3	3.0	2.7	3.4	3.8
	8H	1.2	1.9	1.6	2.3	2.7	2.2	2.9	2.6	3.3	3.7
	12H	1.1	1.8	1.6	2.2	2.7	2.1	2.8	2.6	3.2	3.7
4H	2H	1.3	2.2	1.7	2.5	2.9	2.3	3.1	2.7	3.5	3.9
	3H	1.3	2.0	1.7	2.4	2.8	2.2	2.9	2.6	3.3	3.7
	4H	1.2	1.8	1.6	2.2	2.7	2.1	2.8	2.6	3.2	3.6
	6H	1.1	1.6	1.6	2.1	2.5	2.1	2.6	2.5	3.0	3.5
	8H	1.0	1.5	1.5	2.0	2.4	2.0	2.5	2.5	2.9	3.4
	12H	1.0	1.4	1.5	1.9	2.3	1.9	2.3	2.4	2.8	3.3
8H	4H	1.0	1.5	1.5	2.0	2.4	2.0	2.5	2.5	2.9	3.4
	6H	0.9	1.3	1.4	1.8	2.3	1.9	2.3	2.4	2.8	3.3
	8H	0.9	1.2	1.4	1.7	2.2	1.8	2.2	2.3	2.7	3.2
	12H	0.8	1.1	1.3	1.6	2.2	1.8	2.1	2.3	2.6	3.1
12H	4H	1.0	1.4	1.5	1.9	2.4	1.9	2.3	2.4	2.8	3.3
	6H	0.9	1.2	1.4	1.7	2.2	1.8	2.2	2.3	2.6	3.2
	8H	0.8	1.1	1.3	1.6	2.2	1.8	2.1	2.3	2.6	3.1

(END OF REPORT)