

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: P1590523

Luminaire Tested: HCDLS510CSD4TRH-ME-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590523
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-ME-3000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 700 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

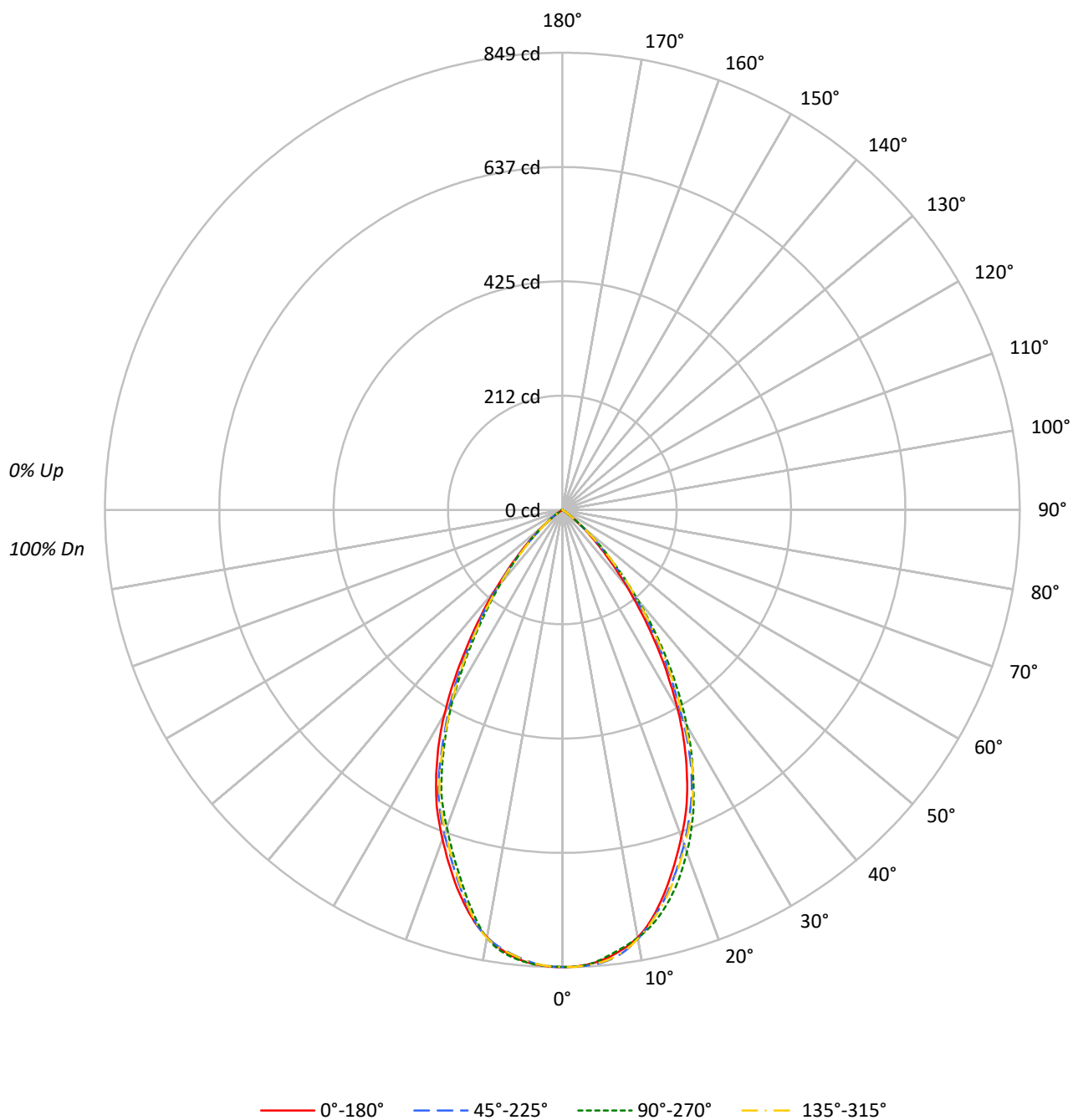
Lumens per Lamp: N/A
Luminaire Lumens: 830.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.92
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°	104683	104683	104683	104683
5°	103907	103684	104031	104167
10°	100925	101050	100913	101038
15°	93819	96449	94138	91712
20°	84848	88746	85399	82327
25°	74567	78487	75466	71873
30°	61016	65915	62340	57797
35°	45309	51001	46257	41996
40°	30223	35102	31430	28371
45°	17723	21264	18752	17339
50°	8674	9940	9288	8923
55°	2839	3011	3011	3054
60°	666	740	691	765
65°	321	379	350	379
70°	180	216	216	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: 21264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	9.5
10°-20°	205.5	24.8
20°-30°	251.1	30.3
30°-40°	191.3	23.0
40°-50°	85.3	10.3
50°-60°	15.4	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°	535.8	64.6
0°-40°	727.1	87.6
0°-60°	827.8	99.7
0°-90°	829.5	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	830.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	849	849	849	849	849	
5°	839	837	840	841	839	79
15°	735	755	737	718	735	205
25°	548	577	554	528	548	249
35°	301	339	307	279	301	188
45°	102	122	108	99	102	81
55°	13	14	14	14	13	15
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°	848.7	848.7	848.7	848.7	848.7	848.7	848.7	848.7	848.7	848.7	848.7
0.5°	848.9	848.6	848.7	848.9	848.6	848.7	849.0	848.9	848.9	848.6	848.6
1°	848.5	848.5	848.7	848.9	848.6	848.7	848.8	848.8	848.6	848.3	848.3
1.5°	848.1	848.2	848.5	848.6	848.3	848.5	848.6	848.5	848.3	847.8	847.8
2°	847.5	847.8	848.3	848.2	847.8	848.0	848.3	848.2	847.7	847.0	847.2
2.5°	846.7	847.5	847.9	847.5	847.0	847.2	848.0	847.8	846.9	846.1	846.3
3°	845.9	847.0	847.4	846.7	845.9	846.4	847.2	847.2	846.1	844.9	845.0
3.5°	844.6	846.5	846.8	845.5	844.4	845.2	846.4	846.5	845.2	843.3	843.4
4°	843.1	845.8	846.2	844.0	842.4	843.5	845.6	845.8	843.7	841.4	841.6
4.5°	841.2	844.7	845.2	842.2	840.0	841.5	844.3	844.7	842.2	839.1	839.5
5°	839.2	843.4	843.7	839.9	837.4	839.0	842.8	843.5	840.2	836.7	837.2
5.5°	836.9	841.7	842.1	837.5	834.6	836.5	840.9	841.9	838.1	834.0	834.8
6°	834.5	839.6	840.1	834.7	831.6	833.7	838.8	839.9	835.5	831.2	832.2
6.5°	831.7	837.3	837.8	832.0	828.5	830.8	836.4	837.6	832.7	828.4	829.6
7°	828.8	834.4	834.9	829.0	825.6	827.8	833.5	834.9	829.7	825.3	826.9
7.5°	825.6	831.1	831.6	825.8	822.6	824.6	830.4	831.7	826.6	822.3	824.0
8°	822.4	827.5	827.9	822.3	819.5	821.3	826.8	827.9	822.9	819.1	821.0
8.5°	818.7	823.4	823.8	818.6	816.5	818.1	822.8	823.9	819.1	815.6	817.7
9°	814.7	818.8	819.1	814.8	813.3	814.5	818.3	819.3	815.0	812.1	814.2
9.5°	810.4	813.9	814.2	810.7	810.2	810.6	813.6	814.2	810.6	808.1	810.3
10°	805.8	808.6	808.9	806.3	806.8	806.6	808.5	808.9	805.7	803.9	805.9
10.5°	800.7	802.8	803.1	801.6	803.2	802.4	803.1	803.0	800.4	798.9	800.7
11°	795.1	796.8	797.1	796.6	799.2	797.8	797.4	797.1	794.8	793.7	794.9
11.5°	788.9	790.2	791.0	791.4	794.8	793.0	791.5	790.8	788.9	787.9	788.5
12°	782.0	783.4	784.6	785.6	790.3	787.8	785.5	784.3	782.5	781.1	781.1
12.5°	774.8	776.4	777.7	780.0	785.1	782.2	779.3	777.6	775.4	773.8	772.7
13°	767.3	769.4	771.0	773.9	779.9	776.6	772.8	770.5	768.6	766.2	764.6
13.5°	759.4	761.8	764.1	767.8	774.1	770.8	766.2	763.5	761.1	758.2	756.0
14°	751.3	754.2	757.1	761.2	768.0	764.5	759.4	756.1	753.5	749.9	747.1
14.5°	743.2	746.4	749.9	754.6	761.8	758.1	752.2	748.7	745.3	741.3	738.1
15°	734.7	738.5	742.4	747.7	755.3	751.2	745.4	741.1	737.2	732.6	728.7
15.5°	726.0	730.4	734.9	740.4	748.6	744.3	737.8	733.3	729.0	723.9	719.4
16°	717.4	722.1	727.1	732.7	741.5	737.0	730.3	725.2	720.5	714.8	710.3
16.5°	708.8	713.9	719.2	725.2	734.2	729.5	722.3	717.0	711.9	705.8	701.2
17°	700.0	705.6	711.2	717.4	726.6	721.8	714.3	708.7	703.2	696.8	692.1
17.5°	691.0	697.1	702.8	709.4	718.8	713.8	706.2	700.0	694.4	687.9	683.0
18°	682.0	688.4	694.4	701.0	710.5	705.8	697.8	691.5	685.8	679.0	674.1
18.5°	673.1	679.6	685.9	692.6	702.3	697.4	689.4	683.1	677.0	670.1	665.3
19°	664.2	670.8	677.6	684.2	693.6	688.9	681.1	674.5	667.9	661.4	656.5
19.5°	655.4	662.1	669.2	675.6	685.1	680.4	672.8	665.7	659.2	652.7	648.6
20°	646.4	653.2	660.6	666.9	676.1	671.9	664.4	657.3	650.6	644.1	640.1
20.5°	637.6	644.6	652.0	658.2	667.3	663.2	655.7	649.0	641.6	635.4	631.6
21°	628.6	635.6	643.2	649.3	658.3	654.2	647.2	640.4	632.6	626.8	623.1
21.5°	619.8	626.7	634.5	640.2	648.7	644.8	638.6	631.7	623.6	618.1	614.6
22°	610.4	617.5	625.4	630.7	639.0	635.4	630.0	623.1	614.6	609.5	605.3

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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°	601.1	608.6	616.4	621.5	629.4	626.1	621.5	614.4	606.3	599.9	596.1
23°	590.9	598.9	607.2	611.3	619.8	616.7	612.9	604.9	596.5	589.7	586.4
23.5°	580.8	589.4	597.8	601.7	610.1	607.3	603.2	595.5	586.4	579.4	576.2
24°	570.1	579.5	588.0	591.0	598.9	596.8	593.7	585.8	575.9	569.0	565.1
24.5°	559.2	569.1	578.5	580.7	588.0	586.3	583.9	575.7	565.3	557.8	553.6
25°	547.9	558.5	568.3	569.6	576.7	575.5	573.8	565.5	554.5	546.5	541.6
25.5°	536.8	547.8	558.0	559.1	565.7	564.7	563.4	555.2	543.6	534.8	529.1
26°	525.5	536.6	547.2	547.9	554.6	553.6	552.8	544.4	532.6	523.1	515.9
26.5°	514.5	525.4	536.1	536.6	543.3	542.4	541.6	533.1	521.2	511.1	502.7
27°	502.7	514.0	524.2	525.2	531.9	530.9	530.1	521.7	510.0	498.9	489.8
27.5°	491.0	502.4	511.7	513.7	521.0	519.8	518.3	510.0	498.7	486.3	477.2
28°	479.0	490.7	498.9	502.0	509.7	508.4	505.5	497.9	486.9	473.9	464.7
28.5°	466.8	478.0	485.5	489.8	498.4	496.5	492.9	485.5	475.0	461.3	452.1
29°	454.1	465.9	472.0	477.8	486.9	485.0	479.6	472.7	462.8	449.0	440.2
29.5°	441.6	453.3	458.0	465.6	475.1	472.9	466.1	459.5	450.3	436.9	428.2
30°	428.4	440.1	444.3	453.0	462.8	460.7	452.1	445.8	437.7	424.6	416.2
30.5°	415.6	426.4	430.8	439.8	450.5	448.0	438.3	432.0	424.5	412.3	404.0
31°	402.8	413.1	417.7	426.9	438.1	435.4	424.9	418.2	411.7	400.3	391.6
31.5°	390.1	399.1	404.9	413.7	425.7	422.5	411.9	404.3	398.4	388.3	379.2
32°	377.3	385.6	392.5	400.5	413.1	409.5	399.4	391.0	385.8	376.4	366.6
32.5°	365.0	371.8	380.2	387.4	401.0	396.5	386.9	378.1	372.2	364.2	354.2
33°	352.6	359.1	368.3	374.5	388.8	383.3	375.1	365.3	358.9	352.4	341.5
33.5°	340.1	345.6	356.2	361.5	376.4	370.3	363.1	352.9	345.6	340.1	328.7
34°	327.9	333.4	344.3	349.2	363.8	357.6	351.3	340.8	332.9	327.9	316.8
34.5°	315.4	320.7	331.9	337.0	351.2	345.2	339.4	328.8	319.7	315.5	304.5
35°	300.9	308.4	319.7	325.2	338.7	332.9	327.5	317.2	307.2	302.8	293.1
35.5°	289.3	296.6	307.8	313.7	326.2	320.9	315.4	305.2	295.0	290.5	282.0
36°	277.8	284.9	296.2	302.6	313.4	309.1	303.4	293.1	283.4	278.3	271.1
36.5°	266.3	273.1	284.5	291.1	300.9	297.1	291.4	281.2	271.3	266.3	260.1
37°	254.7	261.3	272.8	279.6	288.4	285.5	279.6	269.4	259.8	254.7	249.6
37.5°	242.8	249.5	261.1	268.1	276.1	274.1	267.9	257.4	248.6	243.0	238.9
38°	231.1	238.8	249.5	256.6	264.2	262.8	256.9	246.0	237.5	232.0	228.3
38.5°	219.8	227.9	238.7	245.3	252.1	251.4	245.8	234.9	226.5	221.2	217.6
39°	208.9	217.5	228.3	234.3	240.6	240.7	235.4	224.1	216.0	210.7	207.3
39.5°	198.1	207.0	217.7	223.3	229.2	229.5	225.0	213.7	205.5	199.9	197.0
40°	187.7	197.0	207.4	212.6	218.0	218.9	214.7	203.8	195.2	189.6	186.9
40.5°	177.8	187.4	197.3	202.1	207.3	207.8	204.4	193.8	185.0	179.5	177.0
41°	168.1	177.7	187.2	191.8	196.6	197.4	194.3	184.2	175.1	169.6	167.5
41.5°	158.5	168.2	177.0	181.8	186.4	186.9	184.3	174.9	165.6	160.0	158.4
42°	149.6	159.4	167.5	172.2	176.4	176.9	174.3	165.9	156.3	150.5	149.6
42.5°	141.0	150.4	158.0	162.6	166.8	166.9	164.4	156.8	147.5	141.5	140.7
43°	132.5	141.7	148.7	152.9	157.3	157.3	154.9	148.1	139.0	132.9	132.1
43.5°	124.2	132.9	139.6	143.5	148.0	147.8	145.6	139.5	130.4	124.6	123.5
44°	116.5	124.6	131.3	134.3	138.9	138.9	136.6	131.2	122.6	116.7	115.6
44.5°	108.9	116.5	122.9	125.4	130.2	129.8	127.8	122.8	114.9	109.1	107.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	101.6	108.8	114.9	116.7	121.9	121.3	119.4	115.0	107.5	101.7	99.6
45.5°	94.6	101.2	107.2	108.2	113.5	112.8	111.4	107.2	100.4	94.7	92.0
46°	88.1	94.1	99.6	100.1	105.6	104.8	103.5	99.8	93.3	88.0	85.3
46.5°	81.7	87.0	92.1	92.3	97.7	96.8	96.0	92.5	86.9	82.2	79.3
47°	75.7	80.6	84.9	85.0	90.5	89.2	88.5	85.5	81.1	76.4	73.2
47.5°	69.8	74.2	77.9	77.9	83.9	82.7	82.0	79.4	75.3	70.6	67.2
48°	64.5	68.3	71.3	71.2	77.3	76.2	75.5	73.3	69.6	64.8	61.2
48.5°	59.2	62.4	64.9	64.9	70.7	69.6	69.0	67.1	63.8	59.1	56.3
49°	54.3	57.1	58.9	59.1	64.1	63.1	62.6	61.0	58.0	54.2	51.8
49.5°	49.7	52.0	53.1	53.5	57.5	56.6	56.1	54.9	53.1	49.6	47.6
50°	45.2	47.2	47.7	48.2	51.8	51.1	50.6	49.8	48.4	45.3	43.8
50.5°	40.9	42.4	42.7	43.2	46.4	46.0	45.5	44.9	44.0	41.3	40.1
51°	37.1	38.2	38.2	38.6	41.5	41.3	40.8	40.4	39.7	37.6	36.7
51.5°	33.3	34.1	33.9	34.3	36.9	36.8	36.5	36.1	35.7	34.0	33.4
52°	29.8	30.4	30.1	30.4	32.6	32.7	32.4	32.2	31.9	30.7	30.3
52.5°	26.8	27.3	27.0	27.3	28.6	28.8	28.6	28.4	28.3	27.5	27.3
53°	23.8	24.2	24.0	24.2	25.0	25.3	25.1	24.9	24.9	24.4	24.4
53.5°	20.7	21.2	20.9	21.0	21.7	21.9	21.9	21.7	21.8	21.5	21.6
54°	17.7	18.1	17.9	17.9	18.7	19.0	19.0	18.7	18.9	18.8	19.0
54.5°	15.3	15.0	14.8	14.8	16.2	16.4	16.4	16.1	16.3	16.3	16.6
55°	13.2	12.9	12.7	12.7	14.0	14.2	14.2	13.9	14.0	14.0	14.4
55.5°	11.2	10.9	10.7	10.7	11.9	12.1	12.1	11.9	12.0	12.1	12.4
56°	9.3	9.0	8.8	8.8	10.0	10.1	10.1	10.6	10.5	10.7	10.4
56.5°	7.5	7.2	7.1	7.1	8.8	8.9	8.9	9.3	9.0	9.4	9.1
57°	6.1	5.9	5.7	5.8	7.6	7.8	7.8	8.0	7.6	8.0	7.9
57.5°	5.0	4.9	4.8	4.9	6.5	6.6	6.6	6.7	6.1	6.7	6.6
58°	4.3	4.1	4.1	4.2	5.3	5.5	5.5	5.4	4.6	5.3	5.4
58.5°	3.7	3.6	3.5	3.6	4.2	4.4	4.3	4.1	4.0	4.0	4.2
59°	3.2	3.1	3.1	3.2	3.7	3.8	3.8	3.6	3.5	3.5	3.6
59.5°	2.9	2.9	2.8	2.9	3.3	3.4	3.4	3.2	3.1	3.1	3.2
60°	2.7	2.6	2.6	2.7	3.0	3.1	3.0	2.9	2.8	2.7	2.8
60.5°	2.4	2.3	2.3	2.4	2.7	2.8	2.7	2.6	2.5	2.5	2.5
61°	2.1	2.1	2.1	2.2	2.4	2.5	2.5	2.3	2.2	2.2	2.3
61.5°	2.0	1.9	1.9	2.0	2.2	2.3	2.3	2.1	2.0	2.0	2.1
62°	1.8	1.7	1.7	1.8	2.0	2.1	2.1	2.0	1.9	1.8	1.9
62.5°	1.6	1.6	1.6	1.7	1.9	2.0	1.9	1.8	1.7	1.7	1.7
63°	1.5	1.5	1.5	1.5	1.7	1.8	1.8	1.7	1.6	1.6	1.6
63.5°	1.4	1.4	1.4	1.4	1.6	1.7	1.6	1.5	1.5	1.4	1.5
64°	1.3	1.2	1.3	1.3	1.5	1.5	1.5	1.4	1.3	1.3	1.4
64.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.3
65°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.2	1.2	1.1	1.2
65.5°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.1
66°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.0	1.0	1.0	1.0
66.5°	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
67°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9

TEST NUMBER: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
68°	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
68.5°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
69°	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.7
69.5°	0.6	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
70°	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6
70.5°	0.5	0.5	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	0.5	0.5	0.6	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	0.5	0.4	0.4	0.5
72°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
72.5°	0.3	0.3	0.3	0.4	0.4	0.5	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	0.4
73.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.4	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	0.3	0.2	0.2	0.3
75.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
76°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
76.5°	0.2	0.2	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	0.2
78°	0.1	0.1	0.1	0.1	0.2	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	0.1	0.1	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	0.1	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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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°	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
127.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.1	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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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	0.2
137°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
137.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	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°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143.5°	0.2	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.3	0.3
144.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
145°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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	0.4	0.4	0.4
152°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
153°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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	0.5	0.4
162°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.5	0.5
162.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5
163°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
163.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
164°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
164.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
165°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
165.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
166°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
166.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5
167°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.5	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	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
177.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	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: P1590523
CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	848.7	848.7	848.7	848.7	848.7	848.7
0.5°	848.8	848.2	848.5	848.8	848.7	848.9
1°	848.6	848.0	848.3	848.4	848.4	848.5
1.5°	848.2	847.6	848.0	847.9	847.8	848.1
2°	847.8	847.2	847.3	847.0	846.9	847.5
2.5°	846.9	846.7	846.7	846.1	846.1	846.7
3°	846.2	846.1	845.9	844.9	844.6	845.9
3.5°	845.1	845.2	844.8	843.4	842.8	844.6
4°	843.8	844.1	843.5	841.6	841.0	843.1
4.5°	842.1	842.8	842.0	839.6	838.9	841.2
5°	840.3	841.3	840.4	837.4	836.5	839.2
5.5°	838.5	839.6	838.5	835.2	834.1	836.9
6°	836.3	837.6	836.5	832.9	831.4	834.5
6.5°	833.9	835.4	834.2	830.5	828.9	831.7
7°	831.4	832.6	831.7	827.9	826.1	828.8
7.5°	828.6	829.7	828.8	825.4	823.4	825.6
8°	825.5	826.3	825.6	822.3	820.4	822.4
8.5°	822.2	822.4	821.8	819.2	817.3	818.7
9°	818.3	817.8	817.7	815.5	813.8	814.7
9.5°	813.9	812.7	812.8	811.5	809.9	810.4
10°	808.9	806.7	807.2	806.6	805.7	805.8
10.5°	803.0	800.1	800.7	801.3	800.9	800.7
11°	796.6	792.5	793.6	795.1	795.4	795.1
11.5°	788.9	784.1	785.5	788.0	789.3	788.9
12°	780.8	775.1	776.8	779.9	782.0	782.0
12.5°	772.0	766.2	767.8	771.7	774.3	774.8
13°	763.2	756.7	758.4	762.8	766.4	767.3
13.5°	754.0	747.5	749.0	753.7	758.1	759.4
14°	744.7	737.7	739.5	744.4	749.3	751.3
14.5°	735.1	728.1	729.9	735.2	740.4	743.2
15°	725.5	718.2	720.1	725.6	731.4	734.7
15.5°	716.2	708.8	710.7	716.5	722.2	726.0
16°	707.0	699.5	701.5	707.1	712.9	717.4
16.5°	697.7	690.5	692.4	698.1	704.2	708.8
17°	688.7	681.2	683.1	689.1	695.1	700.0
17.5°	679.8	672.1	674.3	680.0	686.3	691.0
18°	671.0	662.9	665.2	671.0	677.1	682.0
18.5°	661.8	653.9	656.1	662.2	668.1	673.1
19°	653.3	644.9	647.5	653.3	659.0	664.2
19.5°	644.9	635.8	638.7	644.6	650.2	655.4
20°	636.5	627.2	630.2	635.9	641.1	646.4
20.5°	628.1	618.3	621.4	627.4	632.3	637.6
21°	619.7	609.8	612.8	618.5	623.4	628.6
21.5°	611.4	600.9	604.2	609.7	614.3	619.8
22°	602.8	592.2	595.5	600.8	605.5	610.4

TEST NUMBER: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	593.9	583.2	586.4	591.9	596.1	601.1
23°	584.1	573.6	576.6	582.3	586.1	590.9
23.5°	573.6	563.2	566.4	572.1	576.1	580.8
24°	563.0	552.0	555.5	561.2	565.3	570.1
24.5°	551.9	539.7	544.2	549.5	553.8	559.2
25°	540.3	528.1	532.4	537.4	541.9	547.9
25.5°	528.2	516.2	520.4	524.8	529.9	536.8
26°	516.0	504.5	508.2	511.9	517.6	525.5
26.5°	503.4	492.2	495.9	498.9	504.9	514.5
27°	490.4	480.7	483.4	485.7	491.7	502.7
27.5°	477.3	468.8	470.5	472.5	478.8	491.0
28°	463.8	456.6	457.6	459.5	466.6	479.0
28.5°	450.5	444.3	444.9	446.6	454.3	466.8
29°	437.7	431.8	432.2	434.1	442.3	454.1
29.5°	425.0	418.9	419.5	421.7	430.5	441.6
30°	412.3	405.8	406.4	409.5	418.8	428.4
30.5°	399.6	392.3	393.4	397.3	406.8	415.6
31°	387.3	379.3	380.4	385.0	394.9	402.8
31.5°	374.9	366.1	367.6	372.7	382.7	390.1
32°	362.8	353.2	355.0	360.4	370.2	377.3
32.5°	350.7	340.5	342.6	348.1	357.6	365.0
33°	338.5	328.1	330.5	335.8	345.0	352.6
33.5°	326.3	315.4	318.6	323.2	332.2	340.1
34°	314.3	301.4	307.5	311.2	319.4	327.9
34.5°	302.3	290.2	295.8	299.8	307.1	315.4
35°	290.7	278.9	284.2	288.3	295.4	300.9
35.5°	279.0	267.7	272.6	276.9	283.8	289.3
36°	267.9	256.5	260.9	265.5	272.1	277.8
36.5°	256.6	245.6	249.3	254.1	260.5	266.3
37°	245.6	234.9	238.3	243.4	248.8	254.7
37.5°	234.7	224.5	227.4	232.7	238.0	242.8
38°	224.1	214.5	216.6	222.5	227.3	231.1
38.5°	213.8	204.7	206.2	212.0	216.5	219.8
39°	203.8	195.2	196.7	201.9	206.1	208.9
39.5°	193.8	185.6	187.1	191.7	195.6	198.1
40°	183.9	176.2	177.7	181.8	185.1	187.7
40.5°	174.5	167.3	168.6	171.9	174.7	177.8
41°	165.3	158.7	159.9	162.4	164.9	168.1
41.5°	156.4	150.3	151.4	153.2	155.1	158.5
42°	147.7	142.3	143.1	144.4	145.9	149.6
42.5°	139.2	134.6	135.0	135.4	136.8	141.0
43°	131.0	127.1	127.2	127.3	128.4	132.5
43.5°	123.2	119.8	119.7	118.9	120.0	124.2
44°	115.7	112.8	112.4	111.1	112.1	116.5
44.5°	108.5	105.9	105.5	103.3	104.3	108.9

TEST NUMBER: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	101.5	99.4	98.7	96.0	96.9	101.6
45.5°	94.8	93.0	92.4	88.9	89.9	94.6
46°	88.3	87.0	86.3	82.3	83.2	88.1
46.5°	82.3	81.1	80.4	75.9	76.8	81.7
47°	76.8	75.5	74.7	70.1	70.7	75.7
47.5°	71.2	70.1	69.2	64.7	65.2	69.8
48°	65.7	64.9	64.0	59.6	60.0	64.5
48.5°	60.2	60.0	59.1	54.9	55.2	59.2
49°	55.3	55.3	54.4	50.6	50.6	54.3
49.5°	50.7	50.8	50.0	46.6	46.6	49.7
50°	46.5	46.5	45.6	42.9	42.7	45.2
50.5°	42.4	42.3	41.6	39.3	39.1	40.9
51°	38.6	38.4	37.9	35.9	35.6	37.1
51.5°	35.0	34.7	34.3	32.7	32.4	33.3
52°	31.6	31.2	30.8	29.6	29.6	29.8
52.5°	28.4	28.2	28.0	26.8	26.8	26.8
53°	25.3	25.3	25.1	24.1	23.9	23.8
53.5°	22.4	22.3	22.2	21.3	21.1	20.7
54°	19.7	19.4	19.4	18.6	18.2	17.7
54.5°	17.1	16.4	16.5	16.2	15.8	15.3
55°	14.8	14.2	14.3	14.1	13.6	13.2
55.5°	12.8	12.2	12.4	12.1	11.7	11.2
56°	10.8	10.2	10.4	10.2	9.8	9.3
56.5°	9.5	8.4	8.6	8.4	8.0	7.5
57°	8.3	6.9	7.0	6.9	6.5	6.1
57.5°	7.0	5.8	5.9	5.7	5.4	5.0
58°	5.7	4.9	5.0	4.9	4.6	4.3
58.5°	4.4	4.3	4.4	4.2	3.9	3.7
59°	3.8	3.7	3.9	3.7	3.4	3.2
59.5°	3.4	3.3	3.4	3.3	3.0	2.9
60°	3.0	3.1	3.1	3.1	2.8	2.7
60.5°	2.7	2.8	2.8	2.8	2.6	2.4
61°	2.5	2.6	2.6	2.6	2.3	2.1
61.5°	2.2	2.4	2.4	2.3	2.1	2.0
62°	2.0	2.1	2.2	2.1	1.9	1.8
62.5°	1.9	1.9	2.0	1.9	1.8	1.6
63°	1.7	1.8	1.9	1.8	1.6	1.5
63.5°	1.6	1.7	1.7	1.6	1.5	1.4
64°	1.5	1.5	1.6	1.5	1.4	1.3
64.5°	1.4	1.4	1.5	1.4	1.3	1.2
65°	1.3	1.3	1.4	1.3	1.2	1.1
65.5°	1.2	1.2	1.3	1.2	1.1	1.0
66°	1.1	1.1	1.2	1.1	1.0	0.9
66.5°	1.0	1.1	1.1	1.0	0.9	0.9
67°	0.9	1.0	1.0	1.0	0.9	0.8

TEST NUMBER: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.9	0.9	1.0	0.9	0.8	0.7
68°	0.8	0.9	0.9	0.8	0.7	0.7
68.5°	0.8	0.8	0.8	0.8	0.7	0.6
69°	0.7	0.7	0.8	0.7	0.6	0.6
69.5°	0.7	0.7	0.7	0.7	0.6	0.6
70°	0.6	0.6	0.7	0.6	0.6	0.5
70.5°	0.6	0.6	0.6	0.6	0.5	0.5
71°	0.5	0.6	0.6	0.5	0.5	0.4
71.5°	0.5	0.5	0.5	0.5	0.4	0.4
72°	0.5	0.5	0.5	0.5	0.4	0.4
72.5°	0.4	0.4	0.5	0.4	0.4	0.3
73°	0.4	0.4	0.4	0.4	0.3	0.3
73.5°	0.4	0.4	0.4	0.4	0.3	0.3
74°	0.3	0.3	0.4	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°	0.3	0.3	0.3	0.3	0.2	0.2
76°	0.2	0.2	0.3	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°	0.2	0.2	0.2	0.2	0.1	0.1
78.5°	0.1	0.1	0.2	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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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	0.1	0.1	0.0	0.0	0.0
126.5°	0.0	0.1	0.1	0.1	0.1	0.0
127°	0.1	0.1	0.1	0.1	0.1	0.1
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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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°	0.2	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	0.2	0.2	0.2	0.1	0.1
142.5°	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.2	0.2	0.2	0.2	0.2	0.2
143.5°	0.2	0.2	0.2	0.2	0.2	0.2
144°	0.3	0.2	0.2	0.2	0.2	0.2
144.5°	0.3	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°	0.4	0.2	0.2	0.2	0.2	0.2
152°	0.4	0.2	0.2	0.2	0.2	0.2
152.5°	0.4	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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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°	0.5	0.2	0.2	0.2	0.2	0.2
163°	0.5	0.2	0.2	0.2	0.2	0.2
163.5°	0.5	0.2	0.2	0.2	0.2	0.2
164°	0.5	0.2	0.2	0.2	0.2	0.2
164.5°	0.5	0.2	0.2	0.2	0.2	0.2
165°	0.5	0.2	0.2	0.2	0.2	0.2
165.5°	0.5	0.2	0.2	0.2	0.2	0.2
166°	0.5	0.2	0.2	0.2	0.2	0.2
166.5°	0.5	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°	0.4	0.2	0.2	0.2	0.2	0.2
176°	0.4	0.2	0.2	0.3	0.3	0.2
176.5°	0.4	0.3	0.3	0.3	0.3	0.3
177°	0.4	0.3	0.3	0.3	0.3	0.3
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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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: P1590523

CATALOG NUMBER: HCDLS510CSD4TRH-ME-3000K

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	1.7	2.7	2.1	3.1	3.4	2.7	3.7	3.0	4.0	4.3
	3H	1.6	2.5	2.0	2.9	3.2	2.6	3.5	3.0	3.9	4.2
	4H	1.5	2.4	2.0	2.7	3.1	2.5	3.4	2.9	3.7	4.1
	6H	1.4	2.2	1.9	2.6	3.0	2.4	3.2	2.9	3.6	4.0
	8H	1.4	2.1	1.8	2.5	2.9	2.4	3.1	2.8	3.5	3.9
	12H	1.3	2.0	1.8	2.4	2.8	2.3	3.0	2.8	3.4	3.8
4H	2H	1.5	2.4	1.9	2.7	3.1	2.5	3.3	2.9	3.7	4.1
	3H	1.5	2.1	1.9	2.6	3.0	2.4	3.1	2.8	3.5	3.9
	4H	1.4	2.0	1.8	2.4	2.9	2.3	3.0	2.8	3.4	3.8
	6H	1.3	1.8	1.8	2.3	2.7	2.3	2.8	2.7	3.2	3.7
	8H	1.2	1.7	1.7	2.1	2.6	2.2	2.7	2.7	3.1	3.6
	12H	1.2	1.6	1.6	2.1	2.5	2.1	2.5	2.6	3.0	3.5
8H	4H	1.2	1.7	1.7	2.2	2.6	2.2	2.7	2.7	3.1	3.6
	6H	1.1	1.5	1.6	2.0	2.5	2.1	2.5	2.6	3.0	3.5
	8H	1.0	1.4	1.6	1.9	2.4	2.0	2.4	2.5	2.9	3.4
	12H	1.0	1.3	1.5	1.8	2.4	2.0	2.3	2.5	2.8	3.3
12H	4H	1.2	1.6	1.7	2.1	2.5	2.1	2.5	2.6	3.0	3.5
	6H	1.0	1.4	1.6	1.9	2.4	2.0	2.4	2.5	2.8	3.4
	8H	1.0	1.3	1.5	1.8	2.4	2.0	2.3	2.5	2.8	3.3

(END OF REPORT)