

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: P1590508

Luminaire Tested: HCDLS510CSD4TRC-ME-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590508
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-ME-3000K
Description: 4" Selectable Round Trim + Specular Clear 700 Lumens 3000K

Light Source:
Ballast/Driver: -

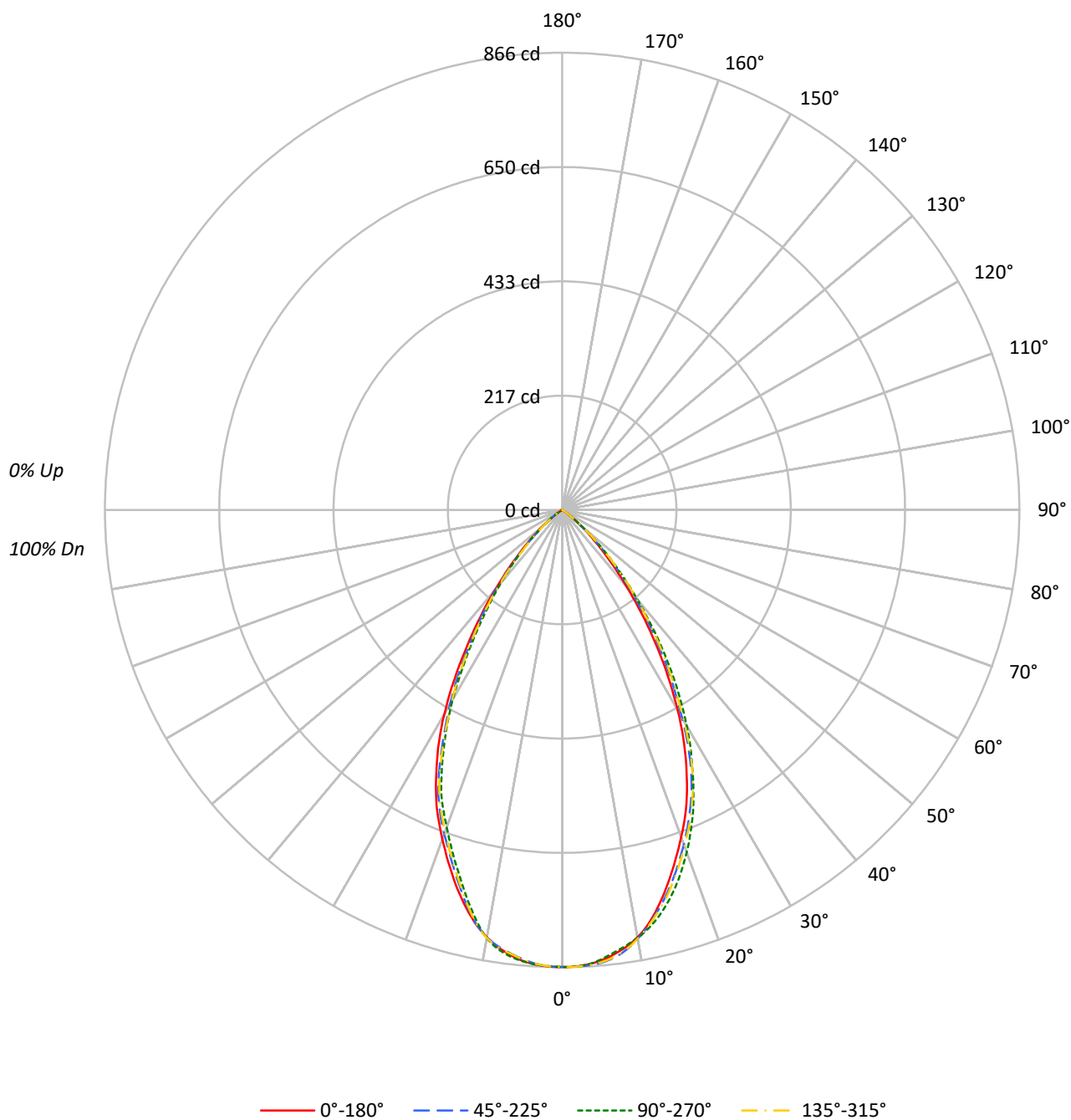
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 846.6 lumens
Efficiency: N/A
Efficacy: 99.6 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:
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			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°	106780	106780	106780	106780
5°	105987	105764	106111	106247
10°	102942	103079	102929	103054
15°	95696	98390	96028	93551
20°	86554	90531	87105	83981
25°	76065	80052	76976	73315
30°	62241	67226	63580	58951
35°	46212	52024	47191	42839
40°	30819	35810	32058	28935
45°	18089	21683	19118	17670
50°	8846	10151	9479	9096
55°	2882	3054	3075	3118
60°	666	740	691	765
65°	321	379	350	379
70°	180	216	216	216
75°	95	143	143	143
80°	71	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 21683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	9.5
10°-20°	209.6	24.8
20°-30°	256.1	30.3
30°-40°	195.1	23.0
40°-50°	87.0	10.3
50°-60°	15.8	1.9
60°-70°	1.4	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°	546.5	64.6
0°-40°	741.6	87.6
0°-60°	844.4	99.7
0°-90°	846.1	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	846.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	856	854	857	858	856	81
15°	749	770	752	733	749	209
25°	559	588	566	539	559	254
35°	307	346	313	284	307	192
45°	104	124	110	101	104	83
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°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
0.5°	865.9	865.6	865.6	865.9	865.6	865.6	866.0	865.9	865.9	865.6	865.6
1°	865.5	865.5	865.6	865.9	865.6	865.6	865.8	865.8	865.6	865.3	865.3
1.5°	865.0	865.2	865.5	865.6	865.3	865.5	865.6	865.5	865.3	864.8	864.8
2°	864.4	864.7	865.3	865.2	864.7	865.0	865.3	865.2	864.6	864.0	864.1
2.5°	863.7	864.4	864.9	864.5	864.0	864.2	865.0	864.7	863.9	863.1	863.2
3°	862.8	864.0	864.3	863.6	862.8	863.3	864.2	864.2	863.1	861.8	861.9
3.5°	861.5	863.4	863.7	862.4	861.3	862.1	863.4	863.4	862.1	860.2	860.3
4°	859.9	862.7	863.1	860.9	859.2	860.4	862.5	862.7	860.6	858.2	858.4
4.5°	858.0	861.6	862.1	859.0	856.8	858.3	861.2	861.6	859.0	855.9	856.3
5°	856.0	860.3	860.6	856.7	854.2	855.8	859.6	860.4	857.0	853.4	853.9
5.5°	853.6	858.6	858.9	854.2	851.3	853.2	857.7	858.7	854.8	850.7	851.5
6°	851.2	856.4	856.9	851.4	848.2	850.4	855.6	856.7	852.3	847.8	848.8
6.5°	848.4	854.0	854.5	848.6	845.1	847.4	853.1	854.4	849.4	845.0	846.2
7°	845.4	851.0	851.6	845.6	842.1	844.3	850.2	851.6	846.2	841.8	843.4
7.5°	842.1	847.7	848.2	842.3	839.0	841.1	847.0	848.3	843.1	838.7	840.5
8°	838.9	844.0	844.4	838.7	835.9	837.7	843.4	844.4	839.4	835.5	837.4
8.5°	835.1	839.9	840.2	835.0	832.8	834.5	839.3	840.4	835.5	832.0	834.1
9°	831.0	835.2	835.5	831.1	829.6	830.7	834.7	835.7	831.3	828.3	830.4
9.5°	826.6	830.1	830.5	826.9	826.4	826.9	829.9	830.5	826.9	824.3	826.5
10°	821.9	824.7	825.0	822.5	823.0	822.7	824.7	825.0	821.8	820.0	822.0
10.5°	816.8	818.9	819.2	817.7	819.3	818.4	819.2	819.0	816.4	814.9	816.7
11°	811.0	812.7	813.0	812.6	815.2	813.7	813.3	813.0	810.7	809.6	810.8
11.5°	804.7	806.0	806.8	807.2	810.7	808.8	807.3	806.6	804.7	803.7	804.3
12°	797.6	799.1	800.3	801.3	806.1	803.6	801.2	800.0	798.2	796.8	796.7
12.5°	790.3	792.0	793.3	795.6	800.8	797.8	794.9	793.2	790.9	789.3	788.2
13°	782.6	784.7	786.4	789.4	795.5	792.1	788.2	785.9	784.0	781.6	779.9
13.5°	774.6	777.1	779.3	783.1	789.6	786.3	781.5	778.8	776.3	773.3	771.1
14°	766.3	769.2	772.2	776.4	783.4	779.8	774.6	771.2	768.6	764.9	762.0
14.5°	758.0	761.3	764.9	769.7	777.0	773.3	767.3	763.7	760.2	756.2	752.8
15°	749.4	753.3	757.2	762.6	770.5	766.3	760.3	756.0	752.0	747.3	743.3
15.5°	740.5	745.0	749.6	755.2	763.6	759.2	752.6	748.0	743.6	738.4	733.8
16°	731.8	736.5	741.6	747.4	756.3	751.7	744.9	739.7	734.9	729.0	724.5
16.5°	723.0	728.2	733.6	739.8	748.9	744.1	736.7	731.4	726.2	719.9	715.2
17°	714.0	719.7	725.4	731.8	741.1	736.2	728.6	722.9	717.3	710.8	705.9
17.5°	704.8	711.0	716.9	723.6	733.2	728.1	720.4	714.0	708.3	701.6	696.7
18°	695.6	702.2	708.3	715.0	724.7	719.9	711.7	705.4	699.5	692.6	687.6
18.5°	686.6	693.2	699.7	706.5	716.3	711.4	703.2	696.8	690.5	683.5	678.6
19°	677.5	684.2	691.2	697.9	707.4	702.7	694.8	688.0	681.2	674.6	669.6
19.5°	668.5	675.3	682.5	689.1	698.8	694.0	686.2	679.0	672.4	665.8	661.5
20°	659.4	666.3	673.8	680.3	689.7	685.4	677.7	670.4	663.6	657.0	652.9
20.5°	650.3	657.5	665.0	671.4	680.7	676.5	668.9	662.0	654.4	648.1	644.2
21°	641.2	648.3	656.0	662.2	671.5	667.3	660.1	653.2	645.3	639.3	635.6
21.5°	632.2	639.2	647.2	653.0	661.6	657.7	651.4	644.4	636.1	630.5	626.9
22°	622.7	629.8	637.9	643.3	651.8	648.1	642.7	635.5	626.9	621.7	617.4

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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°	613.1	620.7	628.7	633.9	642.0	638.6	633.9	626.7	618.5	611.9	608.0
23°	602.7	610.9	619.3	623.5	632.2	629.0	625.2	617.0	608.5	601.5	598.2
23.5°	592.4	601.2	609.8	613.7	622.3	619.5	615.3	607.4	598.1	591.0	587.7
24°	581.5	591.1	599.8	602.8	610.9	608.8	605.6	597.5	587.4	580.4	576.4
24.5°	570.4	580.5	590.0	592.4	599.8	598.1	595.6	587.2	576.6	569.0	564.6
25°	558.9	569.6	579.7	581.0	588.2	587.1	585.3	576.8	565.6	557.4	552.4
25.5°	547.5	558.8	569.1	570.2	577.0	576.0	574.7	566.3	554.4	545.5	539.7
26°	536.0	547.4	558.1	558.8	565.6	564.7	563.8	555.3	543.2	533.6	526.2
26.5°	524.8	535.9	546.9	547.3	554.1	553.2	552.5	543.7	531.6	521.3	512.8
27°	512.8	524.2	534.6	535.8	542.6	541.6	540.7	532.1	520.2	508.8	499.5
27.5°	500.9	512.5	522.0	524.0	531.4	530.1	528.6	520.2	508.7	496.0	486.7
28°	488.5	500.5	508.9	512.0	519.9	518.6	515.6	507.9	496.7	483.4	474.0
28.5°	476.2	487.6	495.2	499.6	508.3	506.5	502.7	495.3	484.5	470.6	461.2
29°	463.2	475.3	481.4	487.3	496.6	494.7	489.2	482.2	472.0	458.0	449.0
29.5°	450.5	462.3	467.1	474.9	484.6	482.4	475.5	468.6	459.3	445.6	436.8
30°	437.0	448.9	453.2	462.0	472.0	470.0	461.1	454.7	446.4	433.1	424.5
30.5°	423.9	434.9	439.4	448.6	459.5	456.9	447.0	440.6	433.0	420.5	412.1
31°	410.8	421.4	426.1	435.4	446.8	444.1	433.4	426.6	419.9	408.3	399.5
31.5°	398.0	407.1	413.0	422.0	434.2	431.0	420.2	412.4	406.4	396.1	386.8
32°	384.9	393.3	400.4	408.5	421.4	417.7	407.4	398.9	393.5	383.9	374.0
32.5°	372.3	379.2	387.8	395.2	409.0	404.5	394.6	385.6	379.6	371.5	361.2
33°	359.7	366.3	375.7	381.9	396.6	391.0	382.6	372.6	366.1	359.5	348.3
33.5°	346.9	352.5	363.4	368.7	384.0	377.7	370.3	360.0	352.5	346.9	335.3
34°	334.4	340.1	351.2	356.2	371.1	364.8	358.3	347.6	339.5	334.5	323.1
34.5°	321.7	327.1	338.6	343.8	358.3	352.1	346.2	335.4	326.1	321.8	310.6
35°	306.9	314.6	326.1	331.7	345.5	339.6	334.0	323.5	313.4	308.9	299.0
35.5°	295.1	302.6	314.0	319.9	332.7	327.3	321.7	311.3	301.0	296.3	287.6
36°	283.4	290.6	302.1	308.7	319.6	315.3	309.5	299.0	289.1	283.9	276.5
36.5°	271.6	278.5	290.2	296.9	306.9	303.1	297.3	286.8	276.7	271.7	265.3
37°	259.8	266.5	278.3	285.2	294.1	291.3	285.2	274.8	265.0	259.8	254.6
37.5°	247.7	254.5	266.4	273.5	281.6	279.6	273.2	262.6	253.5	247.9	243.6
38°	235.7	243.6	254.4	261.8	269.4	268.0	262.0	250.9	242.3	236.7	232.9
38.5°	224.2	232.5	243.5	250.2	257.2	256.4	250.8	239.6	231.1	225.6	221.9
39°	213.1	221.9	232.9	239.0	245.4	245.5	240.1	228.5	220.3	214.9	211.4
39.5°	202.1	211.1	222.1	227.8	233.8	234.1	229.5	218.0	209.6	203.9	200.9
40°	191.4	201.0	211.5	216.8	222.4	223.3	219.0	207.9	199.1	193.4	190.6
40.5°	181.3	191.1	201.2	206.1	211.4	211.9	208.5	197.7	188.7	183.0	180.5
41°	171.4	181.2	190.9	195.7	200.5	201.3	198.2	187.9	178.6	173.0	170.8
41.5°	161.7	171.6	180.5	185.5	190.2	190.6	188.0	178.4	168.9	163.2	161.5
42°	152.6	162.6	170.9	175.7	180.0	180.5	177.8	169.2	159.5	153.5	152.6
42.5°	143.8	153.4	161.1	165.9	170.2	170.2	167.7	160.0	150.4	144.4	143.5
43°	135.2	144.5	151.7	155.9	160.5	160.5	158.0	151.1	141.7	135.6	134.7
43.5°	126.7	135.5	142.4	146.4	151.0	150.7	148.5	142.3	133.0	127.1	125.9
44°	118.8	127.0	133.9	137.0	141.7	141.6	139.3	133.8	125.0	119.0	117.9
44.5°	111.1	118.8	125.4	127.9	132.8	132.4	130.4	125.3	117.1	111.3	109.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	103.7	111.0	117.2	119.0	124.3	123.8	121.8	117.3	109.6	103.8	101.6
45.5°	96.5	103.2	109.3	110.3	115.8	115.0	113.6	109.4	102.4	96.6	93.9
46°	89.9	96.0	101.5	102.1	107.7	106.9	105.5	101.8	95.2	89.8	87.0
46.5°	83.3	88.7	93.9	94.2	99.7	98.7	97.9	94.3	88.6	83.9	80.8
47°	77.2	82.2	86.6	86.7	92.3	91.0	90.3	87.2	82.7	78.0	74.7
47.5°	71.2	75.6	79.5	79.4	85.6	84.4	83.6	81.0	76.8	72.0	68.5
48°	65.8	69.7	72.7	72.6	78.9	77.7	77.0	74.7	70.9	66.1	62.4
48.5°	60.4	63.6	66.2	66.2	72.1	71.0	70.4	68.5	65.1	60.2	57.4
49°	55.4	58.2	60.0	60.3	65.4	64.3	63.8	62.2	59.2	55.3	52.8
49.5°	50.7	53.0	54.1	54.6	58.7	57.7	57.2	56.0	54.2	50.6	48.6
50°	46.1	48.1	48.6	49.2	52.9	52.2	51.7	50.8	49.4	46.2	44.6
50.5°	41.7	43.2	43.6	44.1	47.4	46.9	46.4	45.8	44.9	42.1	40.9
51°	37.8	38.9	38.9	39.4	42.4	42.1	41.6	41.2	40.5	38.3	37.4
51.5°	33.9	34.8	34.6	35.0	37.6	37.5	37.2	36.8	36.5	34.7	34.1
52°	30.4	31.0	30.7	31.0	33.3	33.3	33.0	32.8	32.5	31.3	30.9
52.5°	27.3	27.9	27.6	27.8	29.2	29.4	29.1	29.0	28.9	28.0	27.8
53°	24.2	24.7	24.4	24.7	25.5	25.8	25.6	25.4	25.4	24.9	24.9
53.5°	21.2	21.6	21.3	21.5	22.1	22.4	22.3	22.1	22.3	21.9	22.1
54°	18.1	18.5	18.2	18.3	19.1	19.4	19.4	19.1	19.3	19.1	19.4
54.5°	15.6	15.3	15.1	15.1	16.5	16.7	16.7	16.4	16.6	16.6	16.9
55°	13.4	13.2	13.0	13.0	14.2	14.5	14.4	14.2	14.3	14.3	14.6
55.5°	11.4	11.1	11.0	10.9	12.2	12.4	12.4	12.1	12.2	12.3	12.6
56°	9.5	9.1	9.0	8.9	10.2	10.3	10.3	10.8	10.7	10.9	10.6
56.5°	7.7	7.4	7.2	7.3	9.0	9.1	9.1	9.5	9.2	9.6	9.3
57°	6.2	6.0	5.8	5.9	7.8	7.9	7.9	8.2	7.7	8.2	8.0
57.5°	5.1	5.0	4.9	5.0	6.6	6.8	6.7	6.8	6.2	6.8	6.8
58°	4.3	4.2	4.1	4.3	5.4	5.6	5.6	5.5	4.7	5.4	5.5
58.5°	3.7	3.6	3.6	3.7	4.3	4.4	4.4	4.2	4.1	4.1	4.3
59°	3.3	3.2	3.2	3.3	3.8	3.9	3.9	3.7	3.6	3.6	3.7
59.5°	3.0	2.9	2.9	3.0	3.4	3.5	3.4	3.3	3.2	3.1	3.2
60°	2.7	2.6	2.6	2.7	3.0	3.1	3.1	2.9	2.8	2.8	2.9
60.5°	2.5	2.4	2.4	2.5	2.7	2.8	2.8	2.6	2.5	2.5	2.6
61°	2.2	2.1	2.1	2.2	2.5	2.6	2.5	2.4	2.3	2.3	2.3
61.5°	2.0	1.9	1.9	2.0	2.3	2.4	2.3	2.2	2.1	2.1	2.1
62°	1.8	1.8	1.8	1.8	2.1	2.2	2.1	2.0	1.9	1.9	1.9
62.5°	1.7	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.8	1.7	1.8
63°	1.5	1.5	1.5	1.6	1.8	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	1.7	1.6	1.5	1.5	1.5
64°	1.3	1.3	1.3	1.3	1.5	1.6	1.5	1.4	1.4	1.4	1.4
64.5°	1.2	1.2	1.2	1.2	1.4	1.5	1.4	1.3	1.3	1.3	1.3
65°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2
65.5°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.2	1.1	1.1	1.1
66°	1.0	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
66.5°	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0
67°	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9

TEST NUMBER: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-ME-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.8	0.8	0.8
68°	0.7	0.7	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.8	0.8
68.5°	0.7	0.6	0.7	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	0.7	0.7	0.7
69.5°	0.6	0.6	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	0.6	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	0.6	0.5	0.5	0.5
71°	0.4	0.4	0.4	0.5	0.5	0.6	0.6	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	0.5	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	0.4	0.4	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	0.3	0.3	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	0.2	0.2	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	0.2	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	0.1	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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.1	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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.2	0.2
137°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
142.5°	0.2	0.2	0.1	0.1	0.2	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	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	0.3
144°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
144.5°	0.2	0.2	0.2	0.2	0.3	0.3	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	0.4	0.4	0.4
151.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.5	0.4
161°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5
161.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
162°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
163°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
163.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
164°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
164.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
166°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
166.5°	0.3	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167°	0.3	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
168°	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.5	0.5
168.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.5	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°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3
178.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	865.7	865.7	865.7	865.7	865.7	865.7
0.5°	865.8	865.2	865.5	865.8	865.7	865.9
1°	865.6	865.0	865.3	865.4	865.3	865.5
1.5°	865.2	864.6	865.0	864.9	864.7	865.0
2°	864.7	864.1	864.3	864.0	863.9	864.4
2.5°	863.9	863.6	863.6	863.1	863.0	863.7
3°	863.1	863.1	862.8	861.8	861.5	862.8
3.5°	862.0	862.1	861.7	860.2	859.7	861.5
4°	860.7	861.0	860.4	858.4	857.8	859.9
4.5°	858.9	859.7	858.9	856.4	855.7	858.0
5°	857.1	858.1	857.2	854.2	853.2	856.0
5.5°	855.2	856.4	855.3	851.9	850.7	853.6
6°	853.0	854.3	853.2	849.5	848.0	851.2
6.5°	850.6	852.1	850.9	847.1	845.5	848.4
7°	848.0	849.3	848.4	844.5	842.6	845.4
7.5°	845.2	846.3	845.3	841.9	839.9	842.1
8°	842.0	842.8	842.1	838.7	836.8	838.9
8.5°	838.6	838.9	838.3	835.6	833.6	835.1
9°	834.6	834.2	834.0	831.8	830.1	831.0
9.5°	830.2	829.0	829.1	827.7	826.1	826.6
10°	825.0	822.8	823.4	822.7	821.8	821.9
10.5°	819.1	816.1	816.8	817.4	816.9	816.8
11°	812.5	808.4	809.5	811.0	811.4	811.0
11.5°	804.7	799.8	801.2	803.8	805.0	804.7
12°	796.4	790.6	792.3	795.5	797.7	797.6
12.5°	787.5	781.5	783.1	787.1	789.8	790.3
13°	778.4	771.8	773.6	778.1	781.8	782.6
13.5°	769.1	762.5	764.0	768.8	773.3	774.6
14°	759.5	752.5	754.3	759.3	764.3	766.3
14.5°	749.8	742.7	744.5	749.9	755.2	758.0
15°	740.0	732.6	734.5	740.1	746.1	749.4
15.5°	730.5	723.0	724.9	730.8	736.6	740.5
16°	721.1	713.5	715.5	721.2	727.2	731.8
16.5°	711.6	704.3	706.2	712.0	718.3	723.0
17°	702.5	694.9	696.8	702.9	709.0	714.0
17.5°	693.4	685.6	687.8	693.6	700.0	704.8
18°	684.4	676.2	678.5	684.4	690.6	695.6
18.5°	675.1	667.0	669.2	675.5	681.5	686.6
19°	666.3	657.8	660.4	666.4	672.2	677.5
19.5°	657.8	648.5	651.5	657.5	663.2	668.5
20°	649.2	639.8	642.8	648.6	654.0	659.4
20.5°	640.7	630.6	633.9	640.0	645.0	650.3
21°	632.1	622.0	625.1	630.8	635.9	641.2
21.5°	623.6	612.9	616.2	621.9	626.6	632.2
22°	614.8	604.1	607.4	612.8	617.6	622.7

TEST NUMBER: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	605.7	594.9	598.1	603.8	608.0	613.1
23°	595.8	585.1	588.1	594.0	597.8	602.7
23.5°	585.1	574.5	577.7	583.6	587.6	592.4
24°	574.2	563.0	566.6	572.4	576.6	581.5
24.5°	563.0	550.5	555.1	560.5	564.9	570.4
25°	551.1	538.7	543.0	548.2	552.7	558.9
25.5°	538.8	526.6	530.8	535.3	540.5	547.5
26°	526.4	514.6	518.4	522.1	527.9	536.0
26.5°	513.5	502.1	505.8	508.9	515.0	524.8
27°	500.2	490.3	493.1	495.4	501.6	512.8
27.5°	486.8	478.2	479.9	482.0	488.4	500.9
28°	473.1	465.7	466.7	468.7	475.9	488.5
28.5°	459.5	453.1	453.8	455.5	463.4	476.2
29°	446.4	440.4	440.8	442.7	451.2	463.2
29.5°	433.5	427.2	427.9	430.1	439.1	450.5
30°	420.6	413.9	414.5	417.7	427.2	437.0
30.5°	407.6	400.1	401.2	405.2	415.0	423.9
31°	395.0	386.9	388.0	392.7	402.8	410.8
31.5°	382.4	373.4	375.0	380.2	390.4	398.0
32°	370.0	360.2	362.1	367.6	377.6	384.9
32.5°	357.7	347.3	349.4	355.1	364.8	372.3
33°	345.3	334.6	337.1	342.5	351.9	359.7
33.5°	332.8	321.7	325.0	329.6	338.8	346.9
34°	320.5	307.4	313.6	317.4	325.8	334.4
34.5°	308.3	296.0	301.7	305.7	313.2	321.7
35°	296.5	284.5	289.9	294.1	301.3	306.9
35.5°	284.6	273.1	278.0	282.5	289.4	295.1
36°	273.2	261.6	266.2	270.8	277.5	283.4
36.5°	261.8	250.6	254.3	259.2	265.7	271.6
37°	250.5	239.6	243.0	248.2	253.8	259.8
37.5°	239.4	229.0	231.9	237.4	242.7	247.7
38°	228.6	218.8	221.0	226.9	231.8	235.7
38.5°	218.1	208.8	210.3	216.3	220.8	224.2
39°	207.8	199.1	200.7	206.0	210.2	213.1
39.5°	197.7	189.3	190.9	195.5	199.5	202.1
40°	187.6	179.7	181.2	185.4	188.8	191.4
40.5°	178.0	170.6	172.0	175.4	178.2	181.3
41°	168.6	161.9	163.1	165.7	168.2	171.4
41.5°	159.6	153.3	154.4	156.3	158.2	161.7
42°	150.7	145.1	145.9	147.2	148.8	152.6
42.5°	141.9	137.3	137.7	138.1	139.6	143.8
43°	133.7	129.7	129.7	129.9	130.9	135.2
43.5°	125.7	122.2	122.0	121.3	122.4	126.7
44°	118.0	115.0	114.7	113.3	114.3	118.8
44.5°	110.6	108.0	107.6	105.3	106.4	111.1

TEST NUMBER: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-ME-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	103.5	101.3	100.7	97.9	98.8	103.7
45.5°	96.7	94.9	94.2	90.7	91.7	96.5
46°	90.1	88.8	88.0	83.9	84.9	89.9
46.5°	84.0	82.8	82.0	77.4	78.3	83.3
47°	78.3	77.0	76.2	71.5	72.1	77.2
47.5°	72.7	71.5	70.6	66.0	66.5	71.2
48°	67.0	66.2	65.3	60.7	61.2	65.8
48.5°	61.4	61.2	60.3	56.0	56.3	60.4
49°	56.4	56.4	55.5	51.6	51.6	55.4
49.5°	51.7	51.8	51.0	47.6	47.5	50.7
50°	47.4	47.4	46.5	43.7	43.6	46.1
50.5°	43.3	43.2	42.5	40.1	39.9	41.7
51°	39.4	39.2	38.6	36.7	36.3	37.8
51.5°	35.7	35.4	35.0	33.4	33.1	33.9
52°	32.3	31.8	31.5	30.2	30.2	30.4
52.5°	28.9	28.8	28.5	27.4	27.3	27.3
53°	25.8	25.8	25.6	24.6	24.4	24.2
53.5°	22.9	22.8	22.7	21.8	21.5	21.2
54°	20.1	19.8	19.8	19.0	18.6	18.1
54.5°	17.4	16.8	16.9	16.6	16.1	15.6
55°	15.1	14.5	14.6	14.4	13.9	13.4
55.5°	13.1	12.5	12.6	12.4	12.0	11.4
56°	11.1	10.4	10.6	10.4	10.0	9.5
56.5°	9.7	8.6	8.8	8.5	8.2	7.7
57°	8.4	7.1	7.2	7.0	6.6	6.2
57.5°	7.1	5.9	6.0	5.8	5.5	5.1
58°	5.8	5.0	5.1	5.0	4.7	4.3
58.5°	4.5	4.3	4.5	4.3	4.0	3.7
59°	3.9	3.8	3.9	3.8	3.5	3.3
59.5°	3.4	3.4	3.5	3.4	3.1	3.0
60°	3.1	3.1	3.1	3.1	2.9	2.7
60.5°	2.8	2.9	2.9	2.9	2.6	2.5
61°	2.5	2.6	2.7	2.6	2.4	2.2
61.5°	2.3	2.4	2.5	2.4	2.1	2.0
62°	2.1	2.2	2.2	2.1	1.9	1.8
62.5°	1.9	2.0	2.1	2.0	1.8	1.7
63°	1.8	1.8	1.9	1.8	1.6	1.5
63.5°	1.6	1.7	1.7	1.7	1.5	1.4
64°	1.5	1.6	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	1.2	1.2	1.1	1.0	1.0
66.5°	1.0	1.1	1.1	1.1	1.0	0.9
67°	1.0	1.0	1.0	1.0	0.9	0.8

TEST NUMBER: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.8
68°	0.8	0.9	0.9	0.9	0.8	0.7
68.5°	0.8	0.8	0.8	0.8	0.7	0.7
69°	0.7	0.8	0.8	0.7	0.7	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	0.4	0.3
73.5°	0.4	0.4	0.4	0.4	0.3	0.3
74°	0.3	0.4	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	0.3	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	0.2	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	0.1	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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.1	0.0	0.0
126.5°	0.1	0.1	0.1	0.1	0.1	0.1
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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.2	0.2	0.2	0.1	0.1
142°	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.3	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°	0.4	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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.5	0.2	0.2	0.2	0.2	0.2
161.5°	0.5	0.2	0.2	0.2	0.2	0.2
162°	0.5	0.2	0.2	0.2	0.2	0.2
162.5°	0.5	0.2	0.2	0.2	0.3	0.2
163°	0.5	0.2	0.2	0.2	0.3	0.2
163.5°	0.5	0.2	0.2	0.3	0.3	0.2
164°	0.5	0.2	0.2	0.3	0.3	0.2
164.5°	0.5	0.2	0.2	0.3	0.3	0.3
165°	0.5	0.2	0.2	0.3	0.3	0.3
165.5°	0.5	0.2	0.2	0.3	0.3	0.3
166°	0.5	0.2	0.2	0.3	0.3	0.3
166.5°	0.5	0.2	0.2	0.3	0.3	0.3
167°	0.5	0.2	0.2	0.3	0.3	0.3
167.5°	0.5	0.2	0.2	0.3	0.3	0.3
168°	0.5	0.2	0.2	0.3	0.3	0.3
168.5°	0.4	0.2	0.2	0.3	0.3	0.2
169°	0.4	0.2	0.2	0.3	0.3	0.2
169.5°	0.4	0.2	0.2	0.3	0.3	0.2
170°	0.4	0.2	0.2	0.2	0.3	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	0.3	0.3	0.2
175.5°	0.4	0.2	0.2	0.3	0.3	0.2
176°	0.4	0.2	0.3	0.3	0.3	0.3
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°	0.4	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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590508

CATALOG NUMBER: HCDLS510CSD4TRC-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	1.8	2.8	2.1	3.1	3.4	2.8	3.8	3.1	4.1	4.4
	3H	1.7	2.6	2.1	2.9	3.3	2.7	3.6	3.1	3.9	4.3
	4H	1.6	2.5	2.0	2.8	3.2	2.6	3.5	3.0	3.8	4.2
	6H	1.5	2.3	1.9	2.7	3.1	2.5	3.3	2.9	3.7	4.1
	8H	1.5	2.2	1.9	2.6	3.0	2.5	3.2	2.9	3.6	4.0
	12H	1.4	2.1	1.8	2.5	2.9	2.4	3.1	2.9	3.5	3.9
4H	2H	1.6	2.4	2.0	2.8	3.2	2.6	3.4	3.0	3.8	4.1
	3H	1.5	2.2	2.0	2.6	3.0	2.5	3.2	2.9	3.6	4.0
	4H	1.5	2.1	1.9	2.5	2.9	2.4	3.0	2.9	3.5	3.9
	6H	1.4	1.9	1.8	2.3	2.8	2.3	2.9	2.8	3.3	3.8
	8H	1.3	1.8	1.8	2.2	2.7	2.3	2.8	2.7	3.2	3.7
	12H	1.2	1.6	1.7	2.1	2.6	2.2	2.6	2.7	3.1	3.6
8H	4H	1.3	1.8	1.8	2.2	2.7	2.3	2.7	2.7	3.2	3.7
	6H	1.2	1.6	1.7	2.1	2.6	2.2	2.5	2.7	3.0	3.5
	8H	1.1	1.5	1.6	2.0	2.5	2.1	2.4	2.6	3.0	3.5
	12H	1.1	1.4	1.6	1.9	2.4	2.0	2.3	2.6	2.8	3.4
12H	4H	1.2	1.6	1.7	2.1	2.6	2.2	2.6	2.7	3.1	3.6
	6H	1.1	1.5	1.7	1.9	2.5	2.1	2.4	2.6	2.9	3.5
	8H	1.1	1.4	1.6	1.9	2.4	2.0	2.3	2.6	2.8	3.4

(END OF REPORT)