

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: P1590530

Luminaire Tested: HCDLS510CSD4TRMW-HI-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590530
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-HI-4000K
Description: 4" Selectable Round Trim+Matte White (paintable) 1000 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

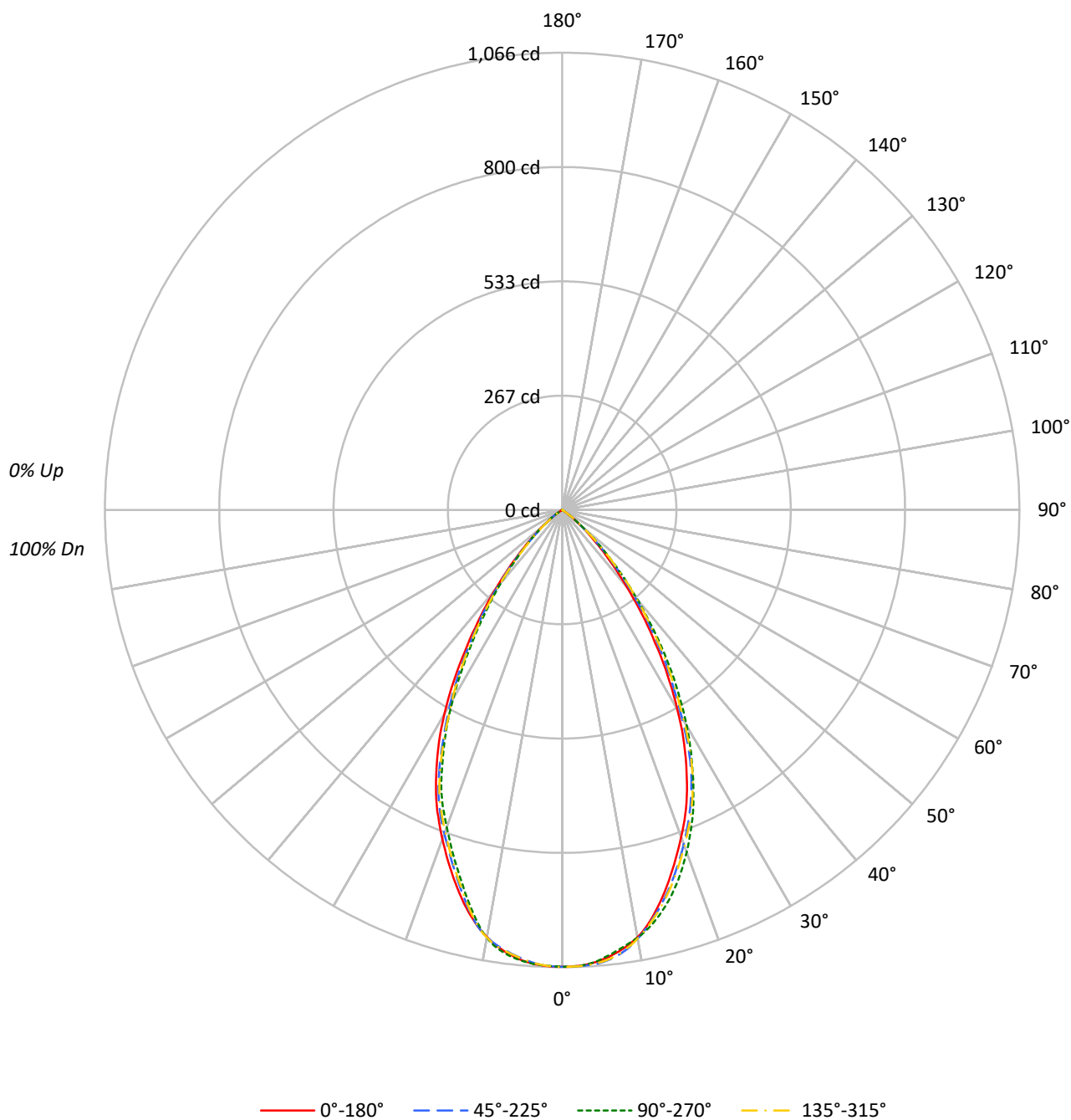
Lumens per Lamp: N/A
Luminaire Lumens: 1041.6 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
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: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
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°	131375	131375	131375	131375
5°	130391	130119	130552	130726
10°	126651	126814	126626	126802
15°	117736	121044	118145	115093
20°	106479	111376	107175	103316
25°	93580	98493	94710	90191
30°	76569	82722	78221	72524
35°	56858	63995	58063	52717
40°	37919	44054	39433	35601
45°	22241	26689	23532	21752
50°	10880	12492	11667	11187
55°	3548	3763	3785	3828
60°	839	913	863	962
65°	409	467	438	496
70°	216	289	252	289
75°	143	191	143	191
80°	71	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 26689 cd/sqm

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	9.5
10°-20°	257.9	24.8
20°-30°	315.1	30.3
30°-40°	240.1	23.0
40°-50°	107.0	10.3
50°-60°	19.4	1.9
60°-70°	1.7	0.2
70°-80°	0.4	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°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	672.4	64.6
0°-40°	912.4	87.6
0°-60°	1038.9	99.7
0°-90°	1040.9	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1041.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1065	1065	1065	1065	1065	
5°	1053	1051	1054	1056	1053	99
15°	922	948	925	901	922	257
25°	688	724	696	663	688	313
35°	378	425	386	350	378	236
45°	128	153	135	125	128	102
55°	16	18	18	18	16	18
65°	1	2	2	2	1	2
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	1	1	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1
0.5°	1065.3	1064.9	1065.0	1065.3	1064.9	1065.0	1065.5	1065.3	1065.3	1064.9	1064.9
1°	1064.8	1064.8	1065.0	1065.3	1064.9	1065.0	1065.2	1065.2	1064.9	1064.6	1064.6
1.5°	1064.3	1064.5	1064.8	1064.9	1064.6	1064.8	1064.9	1064.8	1064.6	1064.0	1064.0
2°	1063.5	1063.9	1064.6	1064.5	1063.9	1064.2	1064.6	1064.5	1063.8	1063.0	1063.1
2.5°	1062.6	1063.5	1064.1	1063.6	1063.0	1063.2	1064.2	1063.9	1062.9	1061.8	1062.0
3°	1061.6	1063.0	1063.4	1062.5	1061.6	1062.1	1063.2	1063.2	1061.8	1060.3	1060.4
3.5°	1059.9	1062.3	1062.7	1061.1	1059.7	1060.6	1062.2	1062.3	1060.6	1058.3	1058.5
4°	1058.0	1061.4	1061.9	1059.2	1057.2	1058.6	1061.2	1061.4	1058.8	1055.9	1056.1
4.5°	1055.7	1060.1	1060.7	1056.9	1054.2	1056.0	1059.6	1060.1	1056.9	1053.0	1053.5
5°	1053.1	1058.5	1058.8	1054.0	1050.9	1053.0	1057.6	1058.6	1054.4	1050.0	1050.6
5.5°	1050.2	1056.3	1056.8	1051.0	1047.3	1049.8	1055.3	1056.5	1051.7	1046.6	1047.6
6°	1047.2	1053.7	1054.3	1047.5	1043.6	1046.2	1052.7	1054.1	1048.6	1043.1	1044.3
6.5°	1043.8	1050.7	1051.4	1044.1	1039.8	1042.6	1049.6	1051.2	1045.0	1039.6	1041.1
7°	1040.1	1047.1	1047.7	1040.3	1036.0	1038.8	1046.0	1047.7	1041.2	1035.7	1037.7
7.5°	1036.1	1042.9	1043.6	1036.3	1032.3	1034.8	1042.1	1043.7	1037.3	1031.9	1034.1
8°	1032.1	1038.5	1038.9	1031.9	1028.4	1030.7	1037.6	1038.9	1032.8	1028.0	1030.3
8.5°	1027.4	1033.3	1033.8	1027.3	1024.6	1026.7	1032.6	1034.0	1027.9	1023.6	1026.2
9°	1022.5	1027.6	1028.0	1022.6	1020.7	1022.1	1027.0	1028.2	1022.7	1019.1	1021.7
9.5°	1016.9	1021.3	1021.8	1017.4	1016.8	1017.3	1021.1	1021.8	1017.3	1014.1	1016.8
10°	1011.2	1014.7	1015.1	1011.9	1012.5	1012.2	1014.6	1015.1	1011.0	1008.9	1011.3
10.5°	1004.9	1007.5	1007.9	1006.0	1008.0	1006.9	1007.9	1007.7	1004.4	1002.6	1004.8
11°	997.8	999.9	1000.3	999.7	1002.9	1001.1	1000.7	1000.3	997.5	996.1	997.6
11.5°	990.0	991.7	992.6	993.2	997.5	995.1	993.3	992.4	990.0	988.8	989.5
12°	981.3	983.2	984.6	985.9	991.8	988.7	985.8	984.3	982.1	980.3	980.2
12.5°	972.3	974.4	976.0	978.9	985.2	981.6	977.9	975.9	973.1	971.1	969.7
13°	962.9	965.5	967.6	971.2	978.7	974.6	969.8	966.9	964.6	961.6	959.5
13.5°	953.1	956.0	958.9	963.5	971.5	967.4	961.5	958.2	955.1	951.5	948.8
14°	942.9	946.4	950.1	955.2	963.8	959.4	953.0	948.8	945.6	941.1	937.5
14.5°	932.6	936.7	941.1	947.0	956.0	951.4	944.0	939.6	935.3	930.3	926.2
15°	922.0	926.8	931.7	938.3	947.9	942.8	935.4	930.1	925.2	919.4	914.5
15.5°	911.1	916.6	922.3	929.2	939.5	934.1	925.9	920.3	914.9	908.4	902.8
16°	900.3	906.2	912.5	919.5	930.5	924.9	916.5	910.1	904.2	897.0	891.3
16.5°	889.5	895.9	902.6	910.1	921.3	915.5	906.4	899.8	893.4	885.7	879.9
17°	878.5	885.5	892.5	900.3	911.8	905.8	896.4	889.4	882.5	874.5	868.5
17.5°	867.2	874.8	882.0	890.3	902.1	895.8	886.3	878.5	871.4	863.3	857.2
18°	855.9	863.9	871.4	879.7	891.6	885.7	875.7	867.8	860.6	852.1	845.9
18.5°	844.7	852.9	860.8	869.2	881.3	875.2	865.2	857.3	849.6	840.9	834.9
19°	833.5	841.8	850.4	858.6	870.4	864.6	854.8	846.5	838.2	830.0	823.8
19.5°	822.5	830.9	839.8	847.8	859.8	853.9	844.3	835.4	827.2	819.1	813.9
20°	811.2	819.7	829.0	837.0	848.5	843.2	833.8	824.9	816.5	808.3	803.3
20.5°	800.1	808.9	818.2	826.1	837.5	832.3	822.9	814.5	805.2	797.4	792.6
21°	788.9	797.6	807.1	814.8	826.1	820.9	812.2	803.6	793.9	786.6	782.0
21.5°	777.8	786.5	796.3	803.4	814.0	809.2	801.4	792.8	782.6	775.7	771.3
22°	766.1	774.9	784.9	791.4	802.0	797.4	790.7	781.9	771.3	764.8	759.6

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	754.3	763.7	773.5	779.9	789.9	785.7	779.9	771.1	760.9	752.8	748.0
23°	741.6	751.6	762.0	767.1	777.8	773.9	769.2	759.1	748.6	740.0	735.9
23.5°	728.9	739.7	750.2	755.1	765.7	762.2	757.0	747.3	735.9	727.2	723.1
24°	715.4	727.2	737.9	741.7	751.6	749.0	745.1	735.1	722.7	714.0	709.2
24.5°	701.8	714.2	725.9	728.8	737.9	735.8	732.8	722.5	709.4	700.0	694.7
25°	687.6	700.8	713.2	714.8	723.7	722.3	720.1	709.7	695.9	685.8	679.7
25.5°	673.7	687.5	700.2	701.6	709.9	708.6	707.0	696.7	682.1	671.2	664.0
26°	659.5	673.5	686.7	687.5	695.9	694.8	693.7	683.2	668.4	656.5	647.4
26.5°	645.7	659.4	672.8	673.4	681.8	680.7	679.7	669.0	654.1	641.4	630.9
27°	630.9	645.0	657.8	659.2	667.6	666.3	665.3	654.7	640.0	626.0	614.6
27.5°	616.2	630.5	642.2	644.6	653.8	652.3	650.4	640.0	625.8	610.2	598.8
28°	601.1	615.8	626.1	629.9	639.7	638.0	634.4	624.9	611.1	594.8	583.1
28.5°	585.9	599.9	609.3	614.7	625.4	623.1	618.5	609.3	596.1	579.0	567.4
29°	569.9	584.7	592.3	599.6	611.0	608.6	601.9	593.2	580.8	563.5	552.5
29.5°	554.2	568.8	574.7	584.3	596.3	593.5	585.0	576.6	565.1	548.2	537.4
30°	537.6	552.3	557.6	568.5	580.8	578.2	567.3	559.4	549.2	532.9	522.3
30.5°	521.6	535.1	540.6	552.0	565.4	562.2	550.0	542.1	532.7	517.4	507.0
31°	505.5	518.5	524.2	535.7	549.8	546.4	533.3	524.8	516.6	502.4	491.5
31.5°	489.6	500.9	508.1	519.2	534.2	530.3	516.9	507.4	500.0	487.3	475.9
32°	473.5	483.9	492.6	502.6	518.5	513.9	501.2	490.7	484.2	472.4	460.1
32.5°	458.1	466.6	477.1	486.2	503.2	497.6	485.5	474.4	467.1	457.1	444.4
33°	442.5	450.6	462.2	469.9	487.9	481.0	470.7	458.4	450.4	442.3	428.5
33.5°	426.9	433.7	447.1	453.6	472.4	464.7	455.7	442.9	433.7	426.8	412.5
34°	411.4	418.4	432.1	438.2	456.6	448.8	440.8	427.6	417.7	411.5	397.5
34.5°	395.8	402.4	416.6	422.9	440.8	433.2	425.9	412.6	401.2	395.9	382.1
35°	377.6	387.0	401.2	408.1	425.0	417.8	411.0	398.1	385.6	380.0	367.9
35.5°	363.1	372.3	386.3	393.6	409.3	402.7	395.8	383.0	370.3	364.5	353.9
36°	348.6	357.5	371.7	379.7	393.3	387.9	380.7	367.8	355.6	349.3	340.2
36.5°	334.2	342.7	357.0	365.3	377.6	372.9	365.7	352.9	340.4	334.2	326.4
37°	319.7	327.9	342.3	350.9	361.9	358.3	350.8	338.1	326.0	319.6	313.2
37.5°	304.7	313.1	327.7	336.5	346.5	344.0	336.1	323.0	311.9	305.0	299.8
38°	290.0	299.7	313.1	322.0	331.5	329.8	322.4	308.7	298.1	291.2	286.5
38.5°	275.8	286.0	299.5	307.8	316.4	315.5	308.5	294.8	284.3	277.6	273.0
39°	262.2	273.0	286.5	294.1	301.9	302.1	295.4	281.2	271.1	264.4	260.1
39.5°	248.6	259.8	273.2	280.3	287.6	288.0	282.4	268.2	257.9	250.9	247.2
40°	235.5	247.2	260.2	266.8	273.6	274.7	269.5	255.7	244.9	237.9	234.5
40.5°	223.1	235.2	247.6	253.6	260.1	260.7	256.6	243.2	232.1	225.2	222.1
41°	210.9	223.0	234.9	240.7	246.7	247.7	243.9	231.2	219.7	212.9	210.2
41.5°	199.0	211.1	222.1	228.2	234.0	234.5	231.3	219.5	207.8	200.8	198.8
42°	187.8	200.0	210.2	216.1	221.4	222.1	218.8	208.2	196.2	188.9	187.7
42.5°	176.9	188.8	198.2	204.1	209.4	209.4	206.4	196.8	185.1	177.6	176.5
43°	166.3	177.8	186.7	191.9	197.5	197.5	194.4	185.9	174.4	166.8	165.8
43.5°	155.9	166.7	175.2	180.1	185.7	185.4	182.7	175.0	163.7	156.3	155.0
44°	146.2	156.3	164.8	168.6	174.3	174.3	171.4	164.6	153.8	146.4	145.0
44.5°	136.7	146.2	154.2	157.3	163.4	162.9	160.4	154.2	144.1	136.9	134.7

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	127.5	136.6	144.2	146.5	153.0	152.3	149.9	144.3	134.9	127.7	125.0
45.5°	118.7	127.0	134.5	135.7	142.4	141.5	139.8	134.6	125.9	118.8	115.5
46°	110.6	118.1	124.9	125.7	132.5	131.5	129.8	125.3	117.1	110.5	107.1
46.5°	102.5	109.2	115.5	115.9	122.6	121.5	120.5	116.0	109.0	103.2	99.5
47°	95.0	101.2	106.5	106.7	113.6	112.0	111.1	107.3	101.7	95.9	91.9
47.5°	87.6	93.1	97.8	97.7	105.3	103.8	102.9	99.6	94.5	88.6	84.3
48°	80.9	85.7	89.5	89.4	97.0	95.6	94.8	92.0	87.3	81.4	76.8
48.5°	74.3	78.3	81.5	81.5	88.7	87.4	86.6	84.3	80.1	74.1	70.6
49°	68.2	71.7	73.9	74.2	80.4	79.2	78.5	76.6	72.8	68.0	65.0
49.5°	62.4	65.3	66.6	67.2	72.2	71.0	70.4	69.0	66.6	62.2	59.8
50°	56.7	59.2	59.8	60.5	65.1	64.2	63.6	62.5	60.8	56.9	54.9
50.5°	51.4	53.2	53.6	54.3	58.3	57.7	57.1	56.4	55.2	51.8	50.3
51°	46.5	47.9	47.9	48.5	52.1	51.8	51.2	50.7	49.8	47.1	46.0
51.5°	41.7	42.8	42.6	43.1	46.3	46.2	45.8	45.3	44.9	42.7	42.0
52°	37.4	38.1	37.7	38.2	40.9	41.0	40.6	40.4	40.0	38.5	38.1
52.5°	33.6	34.3	33.9	34.3	35.9	36.1	35.8	35.6	35.5	34.5	34.3
53°	29.8	30.4	30.1	30.3	31.4	31.7	31.5	31.3	31.2	30.6	30.6
53.5°	26.0	26.6	26.2	26.4	27.2	27.5	27.4	27.2	27.4	26.9	27.2
54°	22.3	22.7	22.4	22.5	23.5	23.8	23.8	23.5	23.7	23.6	23.9
54.5°	19.2	18.9	18.6	18.6	20.3	20.6	20.6	20.2	20.4	20.5	20.8
55°	16.5	16.2	15.9	16.0	17.5	17.8	17.8	17.5	17.6	17.6	18.0
55.5°	14.1	13.7	13.5	13.4	15.0	15.2	15.2	14.9	15.0	15.1	15.5
56°	11.6	11.2	11.0	11.0	12.5	12.7	12.7	13.3	13.2	13.5	13.0
56.5°	9.4	9.1	8.9	8.9	11.0	11.2	11.2	11.7	11.3	11.8	11.4
57°	7.6	7.4	7.2	7.3	9.6	9.8	9.7	10.0	9.5	10.1	9.9
57.5°	6.3	6.1	6.0	6.1	8.1	8.3	8.3	8.4	7.7	8.4	8.3
58°	5.3	5.2	5.1	5.2	6.7	6.9	6.9	6.8	5.8	6.7	6.8
58.5°	4.6	4.5	4.4	4.5	5.2	5.5	5.4	5.2	5.0	5.0	5.2
59°	4.0	3.9	3.9	4.0	4.6	4.8	4.8	4.5	4.4	4.4	4.5
59.5°	3.7	3.6	3.6	3.7	4.1	4.3	4.2	4.0	3.9	3.9	4.0
60°	3.4	3.3	3.2	3.4	3.7	3.9	3.8	3.6	3.5	3.4	3.6
60.5°	3.0	2.9	2.9	3.0	3.4	3.5	3.4	3.2	3.1	3.1	3.2
61°	2.7	2.6	2.6	2.7	3.1	3.2	3.1	2.9	2.8	2.8	2.9
61.5°	2.4	2.4	2.4	2.5	2.8	2.9	2.9	2.7	2.6	2.5	2.6
62°	2.2	2.2	2.2	2.3	2.6	2.7	2.6	2.5	2.3	2.3	2.4
62.5°	2.0	2.0	2.0	2.1	2.4	2.5	2.4	2.3	2.2	2.1	2.2
63°	1.9	1.8	1.8	1.9	2.2	2.3	2.2	2.1	2.0	2.0	2.0
63.5°	1.7	1.7	1.7	1.8	2.0	2.1	2.0	1.9	1.8	1.8	1.9
64°	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.8	1.7	1.7	1.7
64.5°	1.5	1.5	1.5	1.5	1.7	1.8	1.8	1.6	1.6	1.5	1.6
65°	1.4	1.3	1.4	1.4	1.6	1.7	1.6	1.5	1.5	1.4	1.5
65.5°	1.3	1.2	1.3	1.3	1.5	1.6	1.5	1.4	1.3	1.3	1.4
66°	1.2	1.2	1.2	1.2	1.4	1.5	1.4	1.3	1.3	1.2	1.3
66.5°	1.1	1.1	1.1	1.1	1.3	1.4	1.3	1.2	1.2	1.2	1.2
67°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.1	1.1	1.1	1.1

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
68°	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0
68.5°	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9
69°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
69.5°	0.7	0.7	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.7	0.8
70°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
70.5°	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.7
71°	0.6	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
71.5°	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6
72°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
72.5°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
73°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5
73.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
74°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4
75°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
75.5°	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2
79°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	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°	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1
82°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	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: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-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: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-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°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.0	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	0.1	0.1	0.1	0.1	0.1
127.5°	0.1	0.1	0.1	0.1	0.1	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	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	0.2
134.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-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	0.2	0.2	0.2	0.2	0.2	0.2	0.2
135.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
136.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
141°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
141.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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	0.4	0.4
146.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4
147°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
147.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
148°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
148.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
149°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
149.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
151°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
151.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.5	0.4
152.5°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5
153°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
153.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
154°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
154.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
156°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
156.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
158°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
158.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
159°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
159.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.6	0.5
160.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.6
161°	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6
161.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
162°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
162.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
163°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
163.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
164°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
164.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
165.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
166°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
166.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
167°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
167.5°	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6
168°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6
168.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6
169°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.5	0.5
169.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
170°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
170.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
171°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
171.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
173°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
173.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
174°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
174.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
176°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
176.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5
177°	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	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°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
179°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1
0.5°	1065.2	1064.5	1064.8	1065.2	1065.1	1065.3
1°	1064.9	1064.2	1064.6	1064.7	1064.6	1064.8
1.5°	1064.5	1063.7	1064.2	1064.1	1063.9	1064.3
2°	1063.9	1063.1	1063.3	1063.0	1062.9	1063.5
2.5°	1062.9	1062.5	1062.5	1061.8	1061.7	1062.6
3°	1061.9	1061.8	1061.6	1060.3	1059.9	1061.6
3.5°	1060.5	1060.7	1060.2	1058.4	1057.7	1059.9
4°	1058.9	1059.3	1058.6	1056.1	1055.4	1058.0
4.5°	1056.8	1057.7	1056.7	1053.7	1052.8	1055.7
5°	1054.5	1055.8	1054.6	1050.9	1049.8	1053.1
5.5°	1052.2	1053.6	1052.3	1048.1	1046.7	1050.2
6°	1049.5	1051.1	1049.8	1045.2	1043.3	1047.2
6.5°	1046.5	1048.4	1046.9	1042.2	1040.2	1043.8
7°	1043.3	1044.9	1043.8	1039.0	1036.7	1040.1
7.5°	1039.9	1041.3	1040.0	1035.8	1033.3	1036.1
8°	1035.9	1037.0	1036.0	1031.9	1029.6	1032.1
8.5°	1031.8	1032.1	1031.3	1028.1	1025.6	1027.4
9°	1026.9	1026.3	1026.1	1023.4	1021.2	1022.5
9.5°	1021.4	1019.9	1020.0	1018.3	1016.4	1016.9
10°	1015.1	1012.4	1013.0	1012.2	1011.0	1011.2
10.5°	1007.8	1004.0	1004.9	1005.6	1005.1	1004.9
11°	999.6	994.6	995.9	997.8	998.2	997.8
11.5°	990.0	984.0	985.7	988.9	990.5	990.0
12°	979.8	972.7	974.9	978.8	981.4	981.3
12.5°	968.9	961.5	963.5	968.4	971.7	972.3
13°	957.7	949.6	951.7	957.3	961.8	962.9
13.5°	946.2	938.1	940.0	945.9	951.4	953.1
14°	934.5	925.8	928.0	934.2	940.3	942.9
14.5°	922.5	913.8	916.0	922.7	929.2	932.6
15°	910.5	901.3	903.7	910.5	917.9	922.0
15.5°	898.8	889.5	891.8	899.2	906.3	911.1
16°	887.2	877.8	880.3	887.4	894.7	900.3
16.5°	875.5	866.6	868.9	876.0	883.8	889.5
17°	864.3	854.9	857.2	864.8	872.3	878.5
17.5°	853.1	843.5	846.3	853.4	861.2	867.2
18°	842.0	832.0	834.7	842.1	849.7	855.9
18.5°	830.6	820.6	823.4	831.0	838.4	844.7
19°	819.8	809.4	812.5	819.9	827.0	833.5
19.5°	809.3	797.9	801.5	809.0	815.9	822.5
20°	798.8	787.1	790.9	798.0	804.6	811.2
20.5°	788.3	775.9	779.9	787.4	793.5	800.1
21°	777.7	765.2	769.0	776.1	782.3	788.9
21.5°	767.2	754.1	758.2	765.2	770.9	777.8
22°	756.4	743.2	747.3	754.0	759.9	766.1

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	745.3	731.9	735.9	742.8	748.0	754.3
23°	733.1	719.8	723.6	730.8	735.5	741.6
23.5°	719.9	706.8	710.8	718.0	723.0	728.9
24°	706.5	692.7	697.1	704.3	709.4	715.4
24.5°	692.6	677.3	682.9	689.6	695.0	701.8
25°	678.1	662.7	668.1	674.4	680.0	687.6
25.5°	662.9	647.9	653.1	658.6	665.0	673.7
26°	647.6	633.1	637.8	642.4	649.5	659.5
26.5°	631.8	617.7	622.3	626.1	633.6	645.7
27°	615.5	603.2	606.6	609.5	617.1	630.9
27.5°	599.0	588.3	590.4	593.0	600.9	616.2
28°	582.1	572.9	574.2	576.7	585.5	601.1
28.5°	565.4	557.5	558.3	560.5	570.2	585.9
29°	549.2	541.9	542.4	544.7	555.1	569.9
29.5°	533.3	525.6	526.4	529.2	540.2	554.2
30°	517.4	509.2	510.0	513.9	525.6	537.6
30.5°	501.5	492.3	493.7	498.5	510.5	521.6
31°	486.0	476.1	477.4	483.1	495.6	505.5
31.5°	470.5	459.4	461.4	467.8	480.3	489.6
32°	455.3	443.2	445.5	452.3	464.5	473.5
32.5°	440.1	427.3	429.9	436.9	448.8	458.1
33°	424.8	411.7	414.7	421.4	433.0	442.5
33.5°	409.5	395.8	399.9	405.6	416.9	426.9
34°	394.4	378.2	385.8	390.5	400.8	411.4
34.5°	379.3	364.1	371.3	376.2	385.4	395.8
35°	364.8	350.1	356.7	361.9	370.7	377.6
35.5°	350.1	336.0	342.1	347.5	356.1	363.1
36°	336.2	321.9	327.5	333.2	341.5	348.6
36.5°	322.1	308.3	312.9	318.9	326.9	334.2
37°	308.2	294.8	299.0	305.4	312.2	319.7
37.5°	294.5	281.7	285.4	292.0	298.6	304.7
38°	281.2	269.2	271.9	279.2	285.2	290.0
38.5°	268.3	256.9	258.8	266.1	271.6	275.8
39°	255.7	245.0	246.9	253.4	258.6	262.2
39.5°	243.2	232.9	234.8	240.5	245.4	248.6
40°	230.8	221.1	223.0	228.1	232.3	235.5
40.5°	219.0	209.9	211.6	215.8	219.2	223.1
41°	207.5	199.1	200.7	203.8	207.0	210.9
41.5°	196.3	188.7	190.0	192.3	194.7	199.0
42°	185.4	178.6	179.5	181.2	183.1	187.8
42.5°	174.6	168.9	169.5	169.9	171.7	176.9
43°	164.4	159.5	159.6	159.8	161.1	166.3
43.5°	154.6	150.3	150.2	149.3	150.6	155.9
44°	145.2	141.5	141.1	139.4	140.6	146.2
44.5°	136.1	132.9	132.4	129.6	130.9	136.7

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	127.3	124.7	123.9	120.5	121.6	127.5
45.5°	118.9	116.8	115.9	111.6	112.8	118.7
46°	110.9	109.2	108.3	103.2	104.4	110.6
46.5°	103.3	101.8	100.8	95.3	96.3	102.5
47°	96.3	94.7	93.7	88.0	88.7	95.0
47.5°	89.4	87.9	86.9	81.1	81.8	87.6
48°	82.5	81.4	80.4	74.7	75.3	80.9
48.5°	75.5	75.3	74.2	68.9	69.3	74.3
49°	69.4	69.4	68.3	63.5	63.5	68.2
49.5°	63.6	63.7	62.7	58.5	58.5	62.4
50°	58.4	58.3	57.3	53.8	53.6	56.7
50.5°	53.2	53.1	52.2	49.3	49.1	51.4
51°	48.5	48.2	47.5	45.1	44.7	46.5
51.5°	44.0	43.5	43.0	41.1	40.7	41.7
52°	39.7	39.1	38.7	37.2	37.2	37.4
52.5°	35.6	35.4	35.1	33.7	33.6	33.6
53°	31.7	31.7	31.5	30.2	30.0	29.8
53.5°	28.2	28.0	27.9	26.8	26.4	26.0
54°	24.7	24.3	24.3	23.3	22.8	22.3
54.5°	21.5	20.6	20.7	20.4	19.8	19.2
55°	18.6	17.8	18.0	17.7	17.1	16.5
55.5°	16.1	15.4	15.5	15.2	14.7	14.1
56°	13.6	12.9	13.0	12.8	12.3	11.6
56.5°	12.0	10.6	10.8	10.5	10.0	9.4
57°	10.4	8.7	8.8	8.6	8.2	7.6
57.5°	8.8	7.2	7.4	7.2	6.8	6.3
58°	7.1	6.2	6.3	6.1	5.7	5.3
58.5°	5.5	5.3	5.5	5.3	5.0	4.6
59°	4.8	4.7	4.8	4.7	4.3	4.0
59.5°	4.2	4.2	4.3	4.1	3.8	3.7
60°	3.8	3.9	3.9	3.8	3.5	3.4
60.5°	3.4	3.6	3.6	3.5	3.2	3.0
61°	3.1	3.3	3.3	3.2	2.9	2.7
61.5°	2.8	3.0	3.0	2.9	2.6	2.4
62°	2.6	2.6	2.7	2.6	2.4	2.2
62.5°	2.3	2.4	2.5	2.4	2.2	2.0
63°	2.2	2.2	2.3	2.2	2.0	1.9
63.5°	2.0	2.1	2.2	2.0	1.9	1.7
64°	1.8	1.9	2.0	1.9	1.7	1.6
64.5°	1.7	1.8	1.8	1.8	1.6	1.5
65°	1.6	1.7	1.7	1.6	1.5	1.4
65.5°	1.5	1.5	1.6	1.5	1.4	1.3
66°	1.4	1.4	1.5	1.4	1.3	1.2
66.5°	1.3	1.3	1.4	1.3	1.2	1.1
67°	1.2	1.2	1.3	1.2	1.1	1.0

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.1	1.1	1.2	1.1	1.0	0.9
68°	1.0	1.1	1.1	1.0	0.9	0.9
68.5°	0.9	1.0	1.0	1.0	0.9	0.8
69°	0.9	0.9	1.0	0.9	0.8	0.7
69.5°	0.8	0.9	0.9	0.8	0.8	0.7
70°	0.8	0.8	0.8	0.8	0.7	0.6
70.5°	0.7	0.7	0.8	0.7	0.6	0.6
71°	0.7	0.7	0.7	0.7	0.6	0.6
71.5°	0.6	0.6	0.7	0.6	0.6	0.5
72°	0.6	0.6	0.6	0.6	0.5	0.5
72.5°	0.5	0.5	0.6	0.5	0.5	0.4
73°	0.5	0.5	0.5	0.5	0.4	0.4
73.5°	0.4	0.5	0.5	0.5	0.4	0.4
74°	0.4	0.4	0.5	0.4	0.4	0.3
74.5°	0.4	0.4	0.4	0.4	0.3	0.3
75°	0.3	0.4	0.4	0.4	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.2
76.5°	0.3	0.3	0.3	0.3	0.2	0.2
77°	0.2	0.3	0.3	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.1
78.5°	0.2	0.2	0.2	0.2	0.1	0.1
79°	0.2	0.2	0.2	0.2	0.1	0.1
79.5°	0.1	0.1	0.2	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	0.1
81.5°	0.1	0.1	0.1	0.1	0.1	0.0
82°	0.1	0.1	0.1	0.1	0.0	0.0
82.5°	0.0	0.0	0.1	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: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-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: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-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	0.1	0.1	0.1	0.0	0.0
125°	0.0	0.1	0.1	0.1	0.1	0.1
125.5°	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.1	0.1	0.1	0.1	0.1	0.1
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°	0.2	0.1	0.1	0.1	0.1	0.1
134.5°	0.2	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.2	0.1	0.1	0.1	0.1	0.1
135.5°	0.2	0.1	0.1	0.1	0.1	0.1
136°	0.2	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	0.2	0.2	0.1	0.1	0.1
137.5°	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.3	0.2	0.2	0.2	0.2	0.2
141°	0.3	0.2	0.2	0.2	0.2	0.2
141.5°	0.3	0.2	0.2	0.2	0.2	0.2
142°	0.3	0.2	0.2	0.2	0.2	0.2
142.5°	0.3	0.2	0.2	0.2	0.2	0.2
143°	0.3	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°	0.4	0.2	0.2	0.2	0.2	0.2
146.5°	0.4	0.2	0.2	0.2	0.2	0.2
147°	0.4	0.2	0.2	0.2	0.2	0.2
147.5°	0.4	0.2	0.2	0.2	0.2	0.2
148°	0.4	0.2	0.2	0.2	0.2	0.2
148.5°	0.4	0.2	0.2	0.2	0.2	0.2
149°	0.4	0.2	0.2	0.2	0.2	0.2
149.5°	0.4	0.2	0.2	0.2	0.2	0.2
150°	0.4	0.2	0.2	0.2	0.2	0.2
150.5°	0.4	0.2	0.3	0.3	0.3	0.2
151°	0.4	0.3	0.3	0.3	0.3	0.3
151.5°	0.4	0.3	0.3	0.3	0.3	0.3
152°	0.5	0.3	0.3	0.3	0.3	0.3
152.5°	0.5	0.3	0.3	0.3	0.3	0.3
153°	0.5	0.3	0.3	0.3	0.3	0.3
153.5°	0.5	0.3	0.3	0.3	0.3	0.3
154°	0.5	0.3	0.3	0.3	0.3	0.3
154.5°	0.5	0.3	0.3	0.3	0.3	0.3
155°	0.5	0.3	0.3	0.3	0.3	0.3
155.5°	0.5	0.3	0.3	0.3	0.3	0.3
156°	0.5	0.3	0.3	0.3	0.3	0.3
156.5°	0.5	0.3	0.3	0.3	0.3	0.3
157°	0.5	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.5	0.3	0.3	0.3	0.3	0.3
158°	0.5	0.3	0.3	0.3	0.3	0.3
158.5°	0.5	0.3	0.3	0.3	0.3	0.3
159°	0.5	0.3	0.3	0.3	0.3	0.3
159.5°	0.5	0.3	0.3	0.3	0.3	0.3
160°	0.5	0.3	0.3	0.3	0.3	0.3
160.5°	0.6	0.3	0.3	0.3	0.3	0.3
161°	0.6	0.3	0.3	0.3	0.3	0.3
161.5°	0.6	0.3	0.3	0.3	0.3	0.3
162°	0.6	0.3	0.3	0.3	0.3	0.3
162.5°	0.6	0.3	0.3	0.3	0.3	0.3
163°	0.6	0.3	0.3	0.3	0.3	0.3
163.5°	0.6	0.3	0.3	0.3	0.3	0.3
164°	0.6	0.3	0.3	0.3	0.3	0.3
164.5°	0.6	0.3	0.3	0.3	0.3	0.3
165°	0.6	0.3	0.3	0.3	0.3	0.3
165.5°	0.6	0.3	0.3	0.3	0.3	0.3
166°	0.6	0.3	0.3	0.3	0.3	0.3
166.5°	0.6	0.3	0.3	0.3	0.3	0.3
167°	0.6	0.3	0.3	0.3	0.3	0.3
167.5°	0.6	0.3	0.3	0.3	0.3	0.3
168°	0.6	0.3	0.3	0.3	0.3	0.3
168.5°	0.6	0.3	0.3	0.3	0.3	0.3
169°	0.5	0.3	0.3	0.3	0.3	0.3
169.5°	0.5	0.3	0.3	0.3	0.3	0.3
170°	0.5	0.3	0.3	0.3	0.3	0.3
170.5°	0.5	0.3	0.3	0.3	0.3	0.3
171°	0.5	0.3	0.3	0.3	0.3	0.3
171.5°	0.5	0.3	0.3	0.3	0.3	0.3
172°	0.5	0.3	0.3	0.3	0.3	0.3
172.5°	0.5	0.3	0.3	0.3	0.3	0.3
173°	0.5	0.3	0.3	0.3	0.3	0.3
173.5°	0.5	0.3	0.3	0.3	0.3	0.3
174°	0.5	0.3	0.3	0.3	0.3	0.3
174.5°	0.5	0.3	0.3	0.3	0.3	0.3
175°	0.5	0.3	0.3	0.3	0.3	0.3
175.5°	0.5	0.3	0.3	0.3	0.3	0.3
176°	0.5	0.3	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°	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.4	0.4	0.4	0.4	0.4
179°	0.4	0.4	0.4	0.4	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.4	0.4	0.4	0.4	0.4	0.4

TEST NUMBER: P1590530

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-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	2.5	3.5	2.8	3.8	4.1	3.4	4.5	3.8	4.8	5.1
	3H	2.4	3.3	2.8	3.7	4.0	3.4	4.3	3.8	4.6	5.0
	4H	2.3	3.2	2.7	3.5	3.9	3.3	4.2	3.7	4.5	4.9
	6H	2.2	3.0	2.7	3.4	3.8	3.2	4.0	3.6	4.4	4.8
	8H	2.2	2.9	2.6	3.3	3.7	3.2	3.9	3.6	4.3	4.7
	12H	2.1	2.8	2.6	3.2	3.6	3.1	3.8	3.5	4.2	4.6
4H	2H	2.3	3.1	2.7	3.5	3.9	3.2	4.1	3.7	4.4	4.8
	3H	2.3	2.9	2.7	3.3	3.7	3.2	3.9	3.6	4.3	4.7
	4H	2.2	2.8	2.6	3.2	3.6	3.1	3.7	3.6	4.2	4.6
	6H	2.1	2.6	2.5	3.0	3.5	3.0	3.5	3.5	4.0	4.5
	8H	2.0	2.5	2.5	2.9	3.4	3.0	3.4	3.4	3.9	4.4
	12H	1.9	2.4	2.4	2.8	3.3	2.9	3.3	3.4	3.8	4.3
8H	4H	2.0	2.5	2.5	2.9	3.4	3.0	3.4	3.4	3.9	4.4
	6H	1.9	2.3	2.4	2.8	3.3	2.8	3.2	3.4	3.7	4.2
	8H	1.8	2.2	2.4	2.7	3.2	2.8	3.1	3.3	3.6	4.1
	12H	1.8	2.1	2.3	2.6	3.1	2.7	3.0	3.2	3.5	4.1
12H	4H	1.9	2.4	2.4	2.9	3.3	2.9	3.3	3.4	3.8	4.3
	6H	1.8	2.2	2.4	2.6	3.2	2.8	3.1	3.3	3.6	4.1
	8H	1.8	2.1	2.3	2.6	3.2	2.7	3.0	3.2	3.5	4.1

(END OF REPORT)