

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: P1590498

Luminaire Tested: HCDLS510CSD4TRC-HI-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590498
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-HI-3000K
Description: 4" Selectable Round Trim + Specular Clear 1000 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

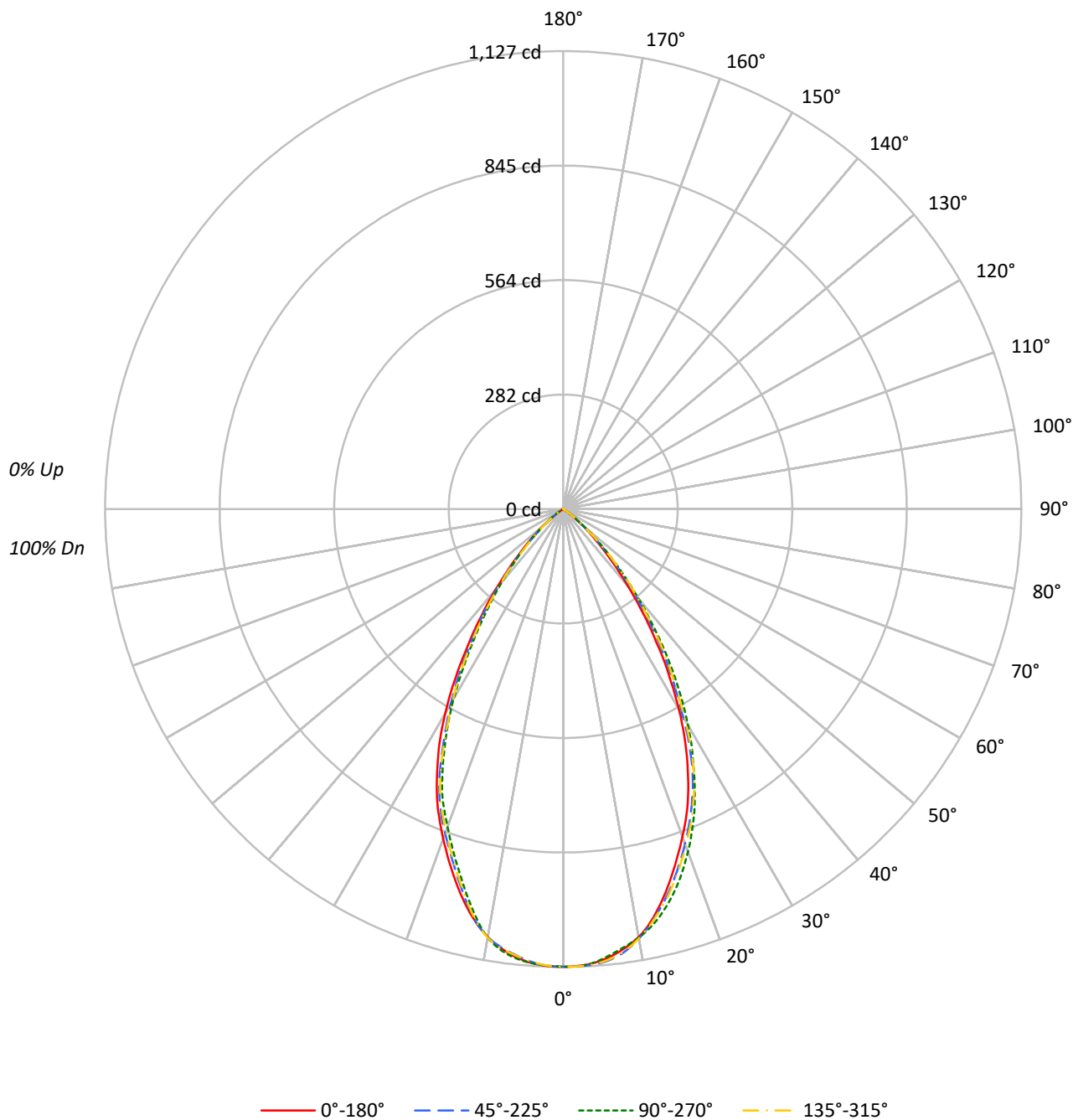
Lumens per Lamp: N/A
Luminaire Lumens: 1101.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93		93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86		86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79		79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73		73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68		68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63		63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	67	63	60	58		58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		55
9	73	63	57	53	72	63	57	53	62	56	53	61	56	53	60	56	52	51		51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	138949	138949	138949	138949
5°	137907	137610	138068	138254
10°	133953	134129	133928	134103
15°	124517	128016	124951	121733
20°	112623	117794	113344	109275
25°	98970	104169	100154	95390
30°	80984	87479	82736	76711
35°	60125	67684	61405	55744
40°	40109	46598	41719	37646
45°	23532	28224	24892	23008
50°	11514	13202	12339	11840
55°	3763	3978	4000	4043
60°	888	962	913	1011
65°	409	496	438	496
70°	252	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: 28224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	9.5
10°-20°	272.8	24.8
20°-30°	333.3	30.3
30°-40°	253.9	23.0
40°-50°	113.2	10.3
50°-60°	20.5	1.9
60°-70°	1.8	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°	711.1	64.6
0°-40°	965.0	87.6
0°-60°	1098.7	99.7
0°-90°	1100.9	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1101.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1126	1126	1126	1126	1126	
5°	1114	1111	1115	1117	1114	105
15°	975	1002	978	953	975	272
25°	727	765	736	701	727	331
35°	399	450	408	370	399	249
45°	135	162	143	132	135	107
55°	18	18	19	19	18	19
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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5
0.5°	1126.7	1126.3	1126.4	1126.7	1126.3	1126.4	1126.9	1126.7	1126.7	1126.3	1126.3
1°	1126.2	1126.2	1126.4	1126.7	1126.3	1126.4	1126.6	1126.6	1126.3	1125.9	1125.9
1.5°	1125.6	1125.8	1126.2	1126.3	1125.9	1126.2	1126.3	1126.2	1125.9	1125.3	1125.3
2°	1124.8	1125.2	1125.9	1125.8	1125.2	1125.5	1125.9	1125.8	1125.1	1124.2	1124.4
2.5°	1123.8	1124.8	1125.4	1124.9	1124.2	1124.5	1125.5	1125.2	1124.1	1123.0	1123.2
3°	1122.7	1124.2	1124.7	1123.7	1122.7	1123.3	1124.5	1124.5	1123.0	1121.3	1121.5
3.5°	1120.9	1123.5	1123.9	1122.2	1120.7	1121.7	1123.4	1123.5	1121.7	1119.2	1119.4
4°	1119.0	1122.5	1123.1	1120.2	1118.1	1119.5	1122.3	1122.5	1119.8	1116.7	1117.0
4.5°	1116.5	1121.1	1121.8	1117.8	1114.9	1116.9	1120.6	1121.1	1117.8	1113.7	1114.2
5°	1113.8	1119.4	1119.8	1114.7	1111.4	1113.6	1118.6	1119.5	1115.1	1110.4	1111.1
5.5°	1110.7	1117.2	1117.7	1111.5	1107.7	1110.2	1116.1	1117.4	1112.3	1106.9	1108.0
6°	1107.6	1114.4	1115.0	1107.9	1103.7	1106.5	1113.3	1114.8	1109.0	1103.2	1104.5
6.5°	1103.9	1111.2	1111.9	1104.2	1099.7	1102.6	1110.0	1111.7	1105.2	1099.5	1101.0
7°	1100.1	1107.4	1108.1	1100.3	1095.7	1098.7	1106.3	1108.1	1101.1	1095.4	1097.5
7.5°	1095.8	1103.0	1103.7	1096.0	1091.7	1094.4	1102.1	1103.8	1097.1	1091.3	1093.6
8°	1091.5	1098.3	1098.8	1091.3	1087.7	1090.1	1097.4	1098.8	1092.2	1087.2	1089.7
8.5°	1086.6	1092.8	1093.3	1086.5	1083.6	1085.8	1092.0	1093.5	1087.1	1082.5	1085.3
9°	1081.4	1086.8	1087.2	1081.5	1079.5	1081.0	1086.1	1087.4	1081.7	1077.8	1080.6
9.5°	1075.5	1080.2	1080.7	1076.0	1075.3	1075.9	1079.9	1080.7	1075.9	1072.6	1075.4
10°	1069.5	1073.1	1073.5	1070.2	1070.9	1070.5	1073.0	1073.5	1069.3	1067.0	1069.6
10.5°	1062.8	1065.5	1065.9	1063.9	1066.0	1064.9	1065.9	1065.7	1062.3	1060.4	1062.7
11°	1055.2	1057.5	1057.9	1057.3	1060.7	1058.8	1058.3	1057.9	1054.9	1053.5	1055.0
11.5°	1047.0	1048.8	1049.8	1050.4	1054.9	1052.5	1050.5	1049.6	1047.0	1045.7	1046.5
12°	1037.8	1039.8	1041.3	1042.7	1048.9	1045.6	1042.6	1041.0	1038.6	1036.7	1036.6
12.5°	1028.3	1030.5	1032.2	1035.3	1042.0	1038.1	1034.3	1032.1	1029.1	1027.0	1025.6
13°	1018.3	1021.1	1023.3	1027.1	1035.1	1030.7	1025.7	1022.6	1020.1	1017.0	1014.8
13.5°	1008.0	1011.1	1014.1	1019.0	1027.4	1023.1	1016.9	1013.4	1010.1	1006.3	1003.4
14°	997.2	1000.9	1004.8	1010.2	1019.3	1014.7	1007.9	1003.5	1000.0	995.3	991.5
14.5°	986.3	990.6	995.3	1001.5	1011.0	1006.2	998.4	993.7	989.2	983.9	979.6
15°	975.1	980.2	985.3	992.3	1002.5	997.1	989.3	983.6	978.5	972.4	967.2
15.5°	963.6	969.4	975.4	982.7	993.6	987.9	979.3	973.3	967.6	960.8	954.8
16°	952.2	958.4	965.0	972.5	984.1	978.2	969.3	962.5	956.3	948.6	942.7
16.5°	940.8	947.5	954.6	962.6	974.4	968.2	958.7	951.7	944.9	936.7	930.6
17°	929.1	936.5	943.9	952.2	964.4	957.9	948.0	940.6	933.3	924.9	918.6
17.5°	917.1	925.2	932.8	941.6	954.0	947.4	937.4	929.1	921.6	913.0	906.5
18°	905.2	913.7	921.6	930.4	943.0	936.8	926.1	917.8	910.2	901.2	894.7
18.5°	893.3	902.0	910.4	919.3	932.0	925.6	915.0	906.6	898.5	889.3	883.0
19°	881.5	890.3	899.4	908.1	920.5	914.4	904.0	895.2	886.4	877.8	871.3
19.5°	869.9	878.8	888.1	896.7	909.3	903.1	892.9	883.5	874.9	866.3	860.8
20°	858.0	866.9	876.8	885.2	897.4	891.8	881.8	872.4	863.5	854.8	849.5
20.5°	846.2	855.5	865.3	873.6	885.7	880.3	870.3	861.4	851.5	843.4	838.3
21°	834.3	843.5	853.6	861.7	873.7	868.2	859.0	849.9	839.6	831.9	827.0
21.5°	822.6	831.8	842.2	849.7	860.9	855.8	847.6	838.5	827.7	820.4	815.8
22°	810.2	819.6	830.1	837.0	848.2	843.4	836.2	827.0	815.7	808.9	803.4

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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°	797.8	807.7	818.0	824.9	835.4	830.9	824.9	815.5	804.8	796.2	791.1
23°	784.3	794.9	805.9	811.3	822.6	818.5	813.5	802.8	791.7	782.7	778.3
23.5°	770.9	782.3	793.5	798.5	809.8	806.1	800.6	790.3	778.3	769.1	764.7
24°	756.7	769.1	780.4	784.4	794.9	792.1	788.0	777.5	764.3	755.2	750.0
24.5°	742.2	755.4	767.8	770.8	780.5	778.2	775.0	764.1	750.3	740.3	734.7
25°	727.2	741.2	754.3	756.0	765.4	763.9	761.6	750.6	735.9	725.3	718.8
25.5°	712.5	727.1	740.6	742.0	750.8	749.4	747.7	736.8	721.4	709.8	702.2
26°	697.5	712.3	726.2	727.1	736.0	734.8	733.7	722.6	706.9	694.3	684.7
26.5°	682.9	697.4	711.6	712.2	721.1	719.9	718.9	707.5	691.8	678.3	667.2
27°	667.2	682.1	695.7	697.1	706.0	704.7	703.6	692.4	676.9	662.1	650.0
27.5°	651.7	666.8	679.2	681.8	691.5	689.8	687.9	676.9	661.9	645.4	633.3
28°	635.7	651.3	662.2	666.2	676.5	674.7	670.9	660.9	646.3	629.0	616.7
28.5°	619.6	634.5	644.4	650.1	661.4	659.0	654.1	644.4	630.4	612.3	600.1
29°	602.7	618.4	626.4	634.1	646.2	643.7	636.6	627.4	614.2	595.9	584.3
29.5°	586.2	601.6	607.8	618.0	630.6	627.7	618.7	609.8	597.6	579.8	568.4
30°	568.6	584.1	589.7	601.2	614.2	611.5	600.0	591.7	580.9	563.6	552.4
30.5°	551.6	565.9	571.8	583.8	597.9	594.6	581.7	573.3	563.4	547.2	536.2
31°	534.6	548.3	554.4	566.5	581.4	577.9	564.0	555.0	546.4	531.3	519.8
31.5°	517.8	529.7	537.4	549.1	565.0	560.8	546.7	536.6	528.8	515.4	503.3
32°	500.8	511.8	521.0	531.5	548.3	543.5	530.1	519.0	512.1	499.6	486.6
32.5°	484.4	493.4	504.6	514.2	532.2	526.3	513.5	501.8	494.0	483.4	470.0
33°	468.0	476.6	488.8	497.0	516.0	508.7	497.9	484.8	476.4	467.8	453.2
33.5°	451.4	458.7	472.8	479.7	499.6	491.5	481.9	468.4	458.7	451.4	436.3
34°	435.1	442.5	457.0	463.5	482.9	474.7	466.2	452.3	441.8	435.2	420.4
34.5°	418.6	425.6	440.6	447.3	466.2	458.1	450.5	436.4	424.3	418.8	404.2
35°	399.3	409.3	424.3	431.6	449.5	441.9	434.6	421.0	407.8	401.9	389.0
35.5°	384.0	393.7	408.6	416.3	432.9	425.9	418.6	405.0	391.6	385.5	374.3
36°	368.7	378.1	393.1	401.6	415.9	410.2	402.7	389.0	376.1	369.4	359.8
36.5°	353.4	362.4	377.6	386.4	399.3	394.3	386.8	373.2	360.1	353.5	345.2
37°	338.1	346.8	362.1	371.1	382.7	379.0	371.1	357.5	344.8	338.0	331.3
37.5°	322.3	331.2	346.6	355.8	366.5	363.8	355.5	341.6	329.9	322.6	317.0
38°	306.7	317.0	331.1	340.6	350.6	348.8	341.0	326.5	315.2	307.9	303.0
38.5°	291.7	302.5	316.8	325.5	334.6	333.6	326.3	311.8	300.7	293.6	288.8
39°	277.3	288.7	303.0	311.0	319.3	319.5	312.4	297.4	286.7	279.6	275.1
39.5°	263.0	274.7	288.9	296.4	304.2	304.6	298.6	283.6	272.8	265.3	261.4
40°	249.1	261.5	275.2	282.1	289.4	290.5	285.0	270.5	259.1	251.6	248.1
40.5°	235.9	248.7	261.8	268.2	275.1	275.8	271.3	257.2	245.5	238.2	234.9
41°	223.1	235.8	248.4	254.6	260.9	262.0	257.9	244.5	232.4	225.1	222.3
41.5°	210.4	223.2	234.9	241.3	247.4	248.1	244.6	232.1	219.7	212.4	210.2
42°	198.6	211.6	222.3	228.6	234.2	234.8	231.4	220.2	207.5	199.7	198.5
42.5°	187.1	199.7	209.7	215.8	221.4	221.5	218.3	208.1	195.7	187.9	186.7
43°	175.9	188.0	197.4	202.9	208.8	208.8	205.6	196.6	184.4	176.4	175.3
43.5°	164.9	176.3	185.3	190.5	196.4	196.1	193.2	185.1	173.1	165.3	163.9
44°	154.6	165.3	174.3	178.3	184.4	184.3	181.3	174.1	162.7	154.9	153.4
44.5°	144.6	154.6	163.1	166.4	172.8	172.3	169.6	163.0	152.4	144.8	142.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	134.9	144.4	152.5	154.9	161.8	161.1	158.5	152.6	142.7	135.0	132.2
45.5°	125.6	134.3	142.3	143.5	150.6	149.7	147.8	142.3	133.2	125.7	122.2
46°	117.0	124.9	132.1	132.9	140.1	139.1	137.3	132.5	123.9	116.9	113.2
46.5°	108.4	115.4	122.2	122.5	129.7	128.5	127.4	122.7	115.3	109.2	105.2
47°	100.4	107.0	112.7	112.8	120.2	118.5	117.5	113.5	107.6	101.4	97.2
47.5°	92.6	98.4	103.4	103.4	111.4	109.8	108.8	105.4	100.0	93.7	89.2
48°	85.6	90.7	94.7	94.5	102.6	101.1	100.2	97.3	92.3	86.0	81.2
48.5°	78.5	82.8	86.2	86.2	93.8	92.4	91.6	89.1	84.7	78.4	74.7
49°	72.1	75.8	78.1	78.4	85.1	83.7	83.0	81.0	77.0	71.9	68.7
49.5°	66.0	69.0	70.4	71.1	76.4	75.1	74.4	72.9	70.5	65.8	63.2
50°	60.0	62.6	63.3	64.0	68.8	67.9	67.2	66.1	64.3	60.2	58.1
50.5°	54.3	56.2	56.7	57.4	61.6	61.0	60.4	59.7	58.4	54.8	53.2
51°	49.2	50.7	50.7	51.3	55.1	54.8	54.2	53.6	52.7	49.8	48.7
51.5°	44.1	45.3	45.0	45.6	49.0	48.8	48.4	47.9	47.4	45.2	44.4
52°	39.5	40.3	39.9	40.4	43.3	43.4	42.9	42.7	42.3	40.7	40.3
52.5°	35.5	36.3	35.9	36.2	38.0	38.2	37.9	37.7	37.6	36.4	36.2
53°	31.5	32.2	31.8	32.1	33.2	33.5	33.3	33.1	33.0	32.3	32.4
53.5°	27.5	28.1	27.8	27.9	28.8	29.1	29.0	28.8	29.0	28.5	28.7
54°	23.6	24.0	23.7	23.8	24.9	25.2	25.2	24.9	25.1	24.9	25.2
54.5°	20.3	20.0	19.7	19.7	21.4	21.8	21.7	21.4	21.6	21.6	22.0
55°	17.5	17.1	16.9	16.9	18.5	18.8	18.8	18.5	18.6	18.6	19.1
55.5°	14.9	14.5	14.3	14.2	15.8	16.1	16.1	15.8	15.9	16.0	16.4
56°	12.3	11.9	11.6	11.6	13.2	13.4	13.4	14.1	13.9	14.2	13.8
56.5°	10.0	9.6	9.4	9.4	11.7	11.8	11.8	12.3	12.0	12.4	12.1
57°	8.1	7.8	7.6	7.7	10.1	10.3	10.3	10.6	10.0	10.7	10.4
57.5°	6.7	6.4	6.3	6.5	8.6	8.8	8.8	8.9	8.1	8.9	8.8
58°	5.7	5.5	5.4	5.5	7.1	7.3	7.2	7.2	6.1	7.1	7.2
58.5°	4.9	4.7	4.7	4.8	5.5	5.8	5.7	5.5	5.3	5.3	5.5
59°	4.3	4.1	4.1	4.2	4.9	5.1	5.0	4.8	4.6	4.6	4.8
59.5°	3.9	3.8	3.8	3.9	4.4	4.5	4.5	4.3	4.1	4.1	4.2
60°	3.6	3.4	3.4	3.5	3.9	4.1	4.0	3.8	3.7	3.6	3.8
60.5°	3.2	3.1	3.1	3.2	3.6	3.7	3.6	3.4	3.3	3.3	3.4
61°	2.8	2.8	2.8	2.9	3.2	3.4	3.3	3.1	3.0	3.0	3.0
61.5°	2.6	2.5	2.5	2.6	3.0	3.1	3.0	2.8	2.7	2.7	2.8
62°	2.4	2.3	2.3	2.4	2.7	2.8	2.8	2.6	2.5	2.5	2.5
62.5°	2.2	2.1	2.1	2.2	2.5	2.6	2.5	2.4	2.3	2.2	2.3
63°	2.0	1.9	2.0	2.0	2.3	2.4	2.3	2.2	2.1	2.1	2.1
63.5°	1.8	1.8	1.8	1.9	2.1	2.2	2.2	2.0	1.9	1.9	2.0
64°	1.7	1.7	1.7	1.7	2.0	2.1	2.0	1.9	1.8	1.8	1.8
64.5°	1.6	1.5	1.5	1.6	1.8	1.9	1.9	1.7	1.7	1.6	1.7
65°	1.4	1.4	1.4	1.5	1.7	1.8	1.7	1.6	1.5	1.5	1.6
65.5°	1.3	1.3	1.3	1.4	1.6	1.7	1.6	1.5	1.4	1.4	1.5
66°	1.2	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.3	1.3	1.3
66.5°	1.2	1.1	1.1	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.3
67°	1.1	1.0	1.1	1.1	1.3	1.3	1.3	1.2	1.1	1.1	1.2

TEST NUMBER: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.1
68°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.0	1.0	1.0	1.0
68.5°	0.9	0.8	0.9	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
69°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.8	0.9
69.5°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
70°	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
70.5°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
71°	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.7
71.5°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
72°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.6
72.5°	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
73°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
73.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4
74°	0.4	0.3	0.3	0.4	0.4	0.5	0.5	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	0.4	0.4	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	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
76°	0.2	0.2	0.2	0.3	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	0.3	0.2	0.2	0.3
77°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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°	0.2	0.1	0.2	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	0.2	0.2	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	0.2	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	0.1	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	0.1	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-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°	0.1	0.1	0.1	0.1	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	0.1
126°	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.1	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	0.2	0.2
134°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
134.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-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	0.2	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°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.2	0.2	0.2	0.2	0.2	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	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	0.3
140°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
140.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
141°	0.2	0.2	0.2	0.2	0.3	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	0.4	0.4
145.5°	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4
146°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
146.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	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°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
149.5°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150.5°	0.3	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5
151°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5
151.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
152°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
152.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

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	0.6	0.6	0.6
158°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.6
158.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
159°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
159.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
161°	0.3	0.3	0.3	0.3	0.6	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	0.6	0.6	0.6	0.6	0.6	0.6	0.6
168°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
168.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
169°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
169.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
170°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
170.5°	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6
171°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6
171.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177.5°	0.4	0.4	0.4	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
178°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
178.5°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4
179°	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5
0.5°	1126.6	1125.8	1126.2	1126.6	1126.5	1126.7
1°	1126.3	1125.5	1125.9	1126.1	1126.0	1126.2
1.5°	1125.8	1125.0	1125.5	1125.4	1125.2	1125.6
2°	1125.2	1124.4	1124.6	1124.2	1124.1	1124.8
2.5°	1124.1	1123.7	1123.7	1123.0	1122.9	1123.8
3°	1123.1	1123.0	1122.7	1121.3	1120.9	1122.7
3.5°	1121.6	1121.8	1121.2	1119.3	1118.7	1120.9
4°	1119.9	1120.3	1119.5	1117.0	1116.2	1119.0
4.5°	1117.7	1118.7	1117.6	1114.4	1113.4	1116.5
5°	1115.3	1116.6	1115.4	1111.4	1110.2	1113.8
5.5°	1112.8	1114.3	1112.9	1108.5	1107.0	1110.7
6°	1109.9	1111.6	1110.2	1105.4	1103.4	1107.6
6.5°	1106.8	1108.8	1107.2	1102.2	1100.2	1103.9
7°	1103.4	1105.1	1103.9	1098.9	1096.4	1100.1
7.5°	1099.8	1101.2	1100.0	1095.5	1092.8	1095.8
8°	1095.6	1096.7	1095.7	1091.3	1088.9	1091.5
8.5°	1091.3	1091.5	1090.8	1087.3	1084.7	1086.6
9°	1086.0	1085.4	1085.2	1082.3	1080.1	1081.4
9.5°	1080.3	1078.7	1078.8	1077.0	1074.9	1075.5
10°	1073.5	1070.7	1071.4	1070.5	1069.3	1069.5
10.5°	1065.8	1061.9	1062.8	1063.6	1063.0	1062.8
11°	1057.2	1051.9	1053.3	1055.2	1055.7	1055.2
11.5°	1047.0	1040.7	1042.5	1045.8	1047.5	1047.0
12°	1036.2	1028.7	1031.0	1035.2	1037.9	1037.8
12.5°	1024.7	1016.9	1019.0	1024.2	1027.6	1028.3
13°	1012.9	1004.3	1006.6	1012.4	1017.3	1018.3
13.5°	1000.7	992.1	994.1	1000.3	1006.2	1008.0
14°	988.3	979.1	981.5	988.0	994.5	997.2
14.5°	975.6	966.4	968.7	975.8	982.7	986.3
15°	963.0	953.3	955.7	963.0	970.8	975.1
15.5°	950.6	940.7	943.2	951.0	958.5	963.6
16°	938.3	928.3	931.1	938.5	946.2	952.2
16.5°	925.9	916.5	918.9	926.5	934.7	940.8
17°	914.0	904.2	906.6	914.6	922.6	929.1
17.5°	902.3	892.0	895.0	902.5	910.8	917.1
18°	890.5	879.9	882.8	890.6	898.6	905.2
18.5°	878.4	867.9	870.8	878.9	886.7	893.3
19°	867.0	856.0	859.3	867.1	874.6	881.5
19.5°	855.9	843.8	847.7	855.6	862.9	869.9
20°	844.8	832.5	836.4	843.9	850.9	858.0
20.5°	833.7	820.6	824.8	832.7	839.3	846.2
21°	822.5	809.3	813.3	820.9	827.4	834.3
21.5°	811.4	797.5	801.9	809.2	815.4	822.6
22°	800.0	786.0	790.4	797.4	803.7	810.2

TEST NUMBER: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	788.2	774.1	778.3	785.6	791.1	797.8
23°	775.3	761.3	765.3	772.9	777.9	784.3
23.5°	761.4	747.5	751.7	759.3	764.6	770.9
24°	747.2	732.6	737.3	744.8	750.2	756.7
24.5°	732.5	716.3	722.3	729.3	735.1	742.2
25°	717.2	700.9	706.6	713.3	719.2	727.2
25.5°	701.0	685.2	690.7	696.6	703.3	712.5
26°	684.9	669.6	674.5	679.4	686.9	697.5
26.5°	668.2	653.3	658.1	662.2	670.1	682.9
27°	650.9	638.0	641.6	644.6	652.6	667.2
27.5°	633.5	622.2	624.4	627.1	635.5	651.7
28°	615.6	606.0	607.3	609.9	619.3	635.7
28.5°	598.0	589.6	590.5	592.8	603.0	619.6
29°	580.9	573.1	573.6	576.1	587.0	602.7
29.5°	564.0	555.9	556.7	559.7	571.3	586.2
30°	547.2	538.6	539.4	543.5	555.9	568.6
30.5°	530.4	520.6	522.1	527.2	539.9	551.6
31°	514.0	503.5	504.9	510.9	524.1	534.6
31.5°	497.6	485.8	487.9	494.7	508.0	517.8
32°	481.5	468.7	471.2	478.4	491.3	500.8
32.5°	465.4	451.9	454.7	462.0	474.7	484.4
33°	449.3	435.4	438.6	445.7	457.9	468.0
33.5°	433.0	418.6	422.9	428.9	440.9	451.4
34°	417.1	400.0	408.1	413.0	423.9	435.1
34.5°	401.2	385.1	392.6	397.8	407.6	418.6
35°	385.8	370.2	377.2	382.7	392.1	399.3
35.5°	370.3	355.3	361.8	367.5	376.6	384.0
36°	355.5	340.4	346.3	352.4	361.1	368.7
36.5°	340.6	326.0	330.9	337.2	345.7	353.4
37°	326.0	311.8	316.2	323.0	330.2	338.1
37.5°	311.5	297.9	301.8	308.9	315.9	322.3
38°	297.4	284.7	287.5	295.3	301.6	306.7
38.5°	283.8	271.7	273.7	281.4	287.3	291.7
39°	270.4	259.1	261.1	268.0	273.5	277.3
39.5°	257.2	246.3	248.3	254.4	259.5	263.0
40°	244.1	233.8	235.8	241.3	245.7	249.1
40.5°	231.6	222.0	223.8	228.2	231.9	235.9
41°	219.4	210.6	212.3	215.5	218.9	223.1
41.5°	207.6	199.5	200.9	203.4	205.9	210.4
42°	196.1	188.9	189.9	191.6	193.6	198.6
42.5°	184.7	178.6	179.2	179.7	181.6	187.1
43°	173.9	168.7	168.8	169.0	170.4	175.9
43.5°	163.5	159.0	158.8	157.9	159.3	164.9
44°	153.6	149.6	149.2	147.4	148.7	154.6
44.5°	144.0	140.6	140.0	137.1	138.4	144.6

TEST NUMBER: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	134.7	131.9	131.0	127.4	128.6	134.9
45.5°	125.8	123.5	122.6	118.0	119.3	125.6
46°	117.3	115.5	114.5	109.2	110.5	117.0
46.5°	109.3	107.7	106.7	100.8	101.9	108.4
47°	101.9	100.2	99.1	93.1	93.9	100.4
47.5°	94.6	93.0	91.9	85.8	86.5	92.6
48°	87.2	86.1	85.0	79.0	79.6	85.6
48.5°	79.9	79.7	78.5	72.9	73.3	78.5
49°	73.4	73.4	72.2	67.2	67.1	72.1
49.5°	67.3	67.4	66.3	61.9	61.9	66.0
50°	61.7	61.7	60.6	56.9	56.7	60.0
50.5°	56.3	56.2	55.2	52.1	51.9	54.3
51°	51.3	51.0	50.2	47.7	47.3	49.2
51.5°	46.5	46.0	45.5	43.4	43.1	44.1
52°	42.0	41.4	40.9	39.3	39.3	39.5
52.5°	37.6	37.5	37.1	35.6	35.5	35.5
53°	33.6	33.6	33.3	32.0	31.7	31.5
53.5°	29.8	29.6	29.5	28.3	28.0	27.5
54°	26.1	25.7	25.7	24.7	24.2	23.6
54.5°	22.7	21.8	21.9	21.5	20.9	20.3
55°	19.7	18.8	19.0	18.7	18.0	17.5
55.5°	17.0	16.2	16.4	16.1	15.6	14.9
56°	14.4	13.6	13.8	13.5	13.0	12.3
56.5°	12.7	11.2	11.4	11.1	10.6	10.0
57°	11.0	9.2	9.4	9.1	8.6	8.1
57.5°	9.3	7.7	7.8	7.6	7.2	6.7
58°	7.6	6.5	6.7	6.5	6.1	5.7
58.5°	5.9	5.7	5.8	5.6	5.2	4.9
59°	5.1	5.0	5.1	4.9	4.6	4.3
59.5°	4.5	4.4	4.6	4.4	4.0	3.9
60°	4.0	4.1	4.1	4.1	3.7	3.6
60.5°	3.6	3.8	3.8	3.7	3.4	3.2
61°	3.3	3.4	3.5	3.4	3.1	2.8
61.5°	3.0	3.1	3.2	3.1	2.8	2.6
62°	2.7	2.8	2.9	2.8	2.5	2.4
62.5°	2.5	2.6	2.7	2.5	2.3	2.2
63°	2.3	2.4	2.5	2.3	2.1	2.0
63.5°	2.1	2.2	2.3	2.2	2.0	1.8
64°	1.9	2.0	2.1	2.0	1.8	1.7
64.5°	1.8	1.9	2.0	1.9	1.7	1.6
65°	1.7	1.7	1.8	1.7	1.6	1.4
65.5°	1.6	1.6	1.7	1.6	1.4	1.3
66°	1.4	1.5	1.6	1.5	1.3	1.2
66.5°	1.3	1.4	1.5	1.4	1.2	1.2
67°	1.2	1.3	1.4	1.3	1.2	1.1

TEST NUMBER: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.2	1.3	1.2	1.1	1.0
68°	1.1	1.1	1.2	1.1	1.0	0.9
68.5°	1.0	1.1	1.1	1.0	0.9	0.9
69°	0.9	1.0	1.0	1.0	0.9	0.8
69.5°	0.9	0.9	0.9	0.9	0.8	0.7
70°	0.8	0.8	0.9	0.8	0.7	0.7
70.5°	0.8	0.8	0.8	0.8	0.7	0.6
71°	0.7	0.7	0.8	0.7	0.6	0.6
71.5°	0.6	0.7	0.7	0.7	0.6	0.5
72°	0.6	0.6	0.7	0.6	0.5	0.5
72.5°	0.6	0.6	0.6	0.6	0.5	0.5
73°	0.5	0.5	0.6	0.5	0.5	0.4
73.5°	0.5	0.5	0.5	0.5	0.4	0.4
74°	0.4	0.5	0.5	0.4	0.4	0.4
74.5°	0.4	0.4	0.4	0.4	0.4	0.3
75°	0.4	0.4	0.4	0.4	0.3	0.3
75.5°	0.3	0.4	0.4	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°	0.3	0.3	0.3	0.3	0.2	0.2
77.5°	0.2	0.2	0.3	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.2
78.5°	0.2	0.2	0.2	0.2	0.2	0.1
79°	0.2	0.2	0.2	0.2	0.1	0.1
79.5°	0.1	0.2	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	0.1	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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-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	0.1	0.1	0.0	0.0	0.0
124.5°	0.0	0.1	0.1	0.1	0.1	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°	0.2	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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

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	0.2	0.2	0.1	0.1	0.1
136.5°	0.2	0.2	0.2	0.2	0.2	0.1
137°	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.3	0.2	0.2	0.2	0.2	0.2
140°	0.3	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°	0.4	0.2	0.2	0.2	0.2	0.2
145.5°	0.4	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	0.3	0.3	0.3	0.3	0.2
149°	0.4	0.3	0.3	0.3	0.3	0.3
149.5°	0.4	0.3	0.3	0.3	0.3	0.3
150°	0.4	0.3	0.3	0.3	0.3	0.3
150.5°	0.5	0.3	0.3	0.3	0.3	0.3
151°	0.5	0.3	0.3	0.3	0.3	0.3
151.5°	0.5	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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

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°	0.6	0.3	0.3	0.3	0.3	0.3
158.5°	0.6	0.3	0.3	0.3	0.3	0.3
159°	0.6	0.3	0.3	0.3	0.3	0.3
159.5°	0.6	0.3	0.3	0.3	0.3	0.3
160°	0.6	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°	0.6	0.3	0.3	0.3	0.3	0.3
169.5°	0.6	0.3	0.3	0.3	0.3	0.3
170°	0.6	0.3	0.3	0.3	0.3	0.3
170.5°	0.6	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°	0.5	0.3	0.3	0.3	0.3	0.3
177°	0.5	0.3	0.4	0.4	0.4	0.3
177.5°	0.5	0.4	0.4	0.4	0.4	0.4
178°	0.5	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: P1590498

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3000K

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

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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	2.7	3.7	3.0	4.0	4.4	3.7	4.7	4.0	5.0	5.3
	3H	2.6	3.5	3.0	3.9	4.2	3.6	4.5	4.0	4.8	5.2
	4H	2.5	3.4	2.9	3.7	4.1	3.5	4.4	3.9	4.7	5.1
	6H	2.4	3.2	2.9	3.6	4.0	3.4	4.2	3.8	4.6	5.0
	8H	2.4	3.1	2.8	3.5	3.9	3.4	4.1	3.8	4.5	4.9
	12H	2.3	3.0	2.8	3.4	3.8	3.3	4.0	3.7	4.4	4.8
4H	2H	2.5	3.3	2.9	3.7	4.1	3.5	4.3	3.9	4.7	5.0
	3H	2.5	3.1	2.9	3.5	4.0	3.4	4.1	3.8	4.5	4.9
	4H	2.4	3.0	2.8	3.4	3.9	3.3	3.9	3.8	4.4	4.8
	6H	2.3	2.8	2.8	3.2	3.7	3.2	3.7	3.7	4.2	4.7
	8H	2.2	2.7	2.7	3.1	3.6	3.2	3.6	3.6	4.1	4.6
	12H	2.1	2.6	2.6	3.1	3.5	3.1	3.5	3.6	4.0	4.5
8H	4H	2.2	2.7	2.7	3.1	3.6	3.2	3.6	3.6	4.1	4.6
	6H	2.1	2.5	2.6	3.0	3.5	3.1	3.4	3.6	3.9	4.4
	8H	2.0	2.4	2.6	2.9	3.4	3.0	3.3	3.5	3.9	4.3
	12H	2.0	2.3	2.5	2.8	3.4	2.9	3.2	3.4	3.7	4.3
12H	4H	2.2	2.6	2.6	3.1	3.5	3.1	3.5	3.6	4.0	4.5
	6H	2.0	2.4	2.6	2.9	3.4	3.0	3.3	3.5	3.8	4.4
	8H	2.0	2.3	2.5	2.8	3.4	2.9	3.2	3.5	3.7	4.3

(END OF REPORT)