

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: P1590515

Luminaire Tested: HCDLS510CSD4TRH-HI-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2603928A002)
Test Lab: INNOVATION CENTER
Issue Date: 9/4/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: HCDLS510CSD4TRH-HI-4000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 1000 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

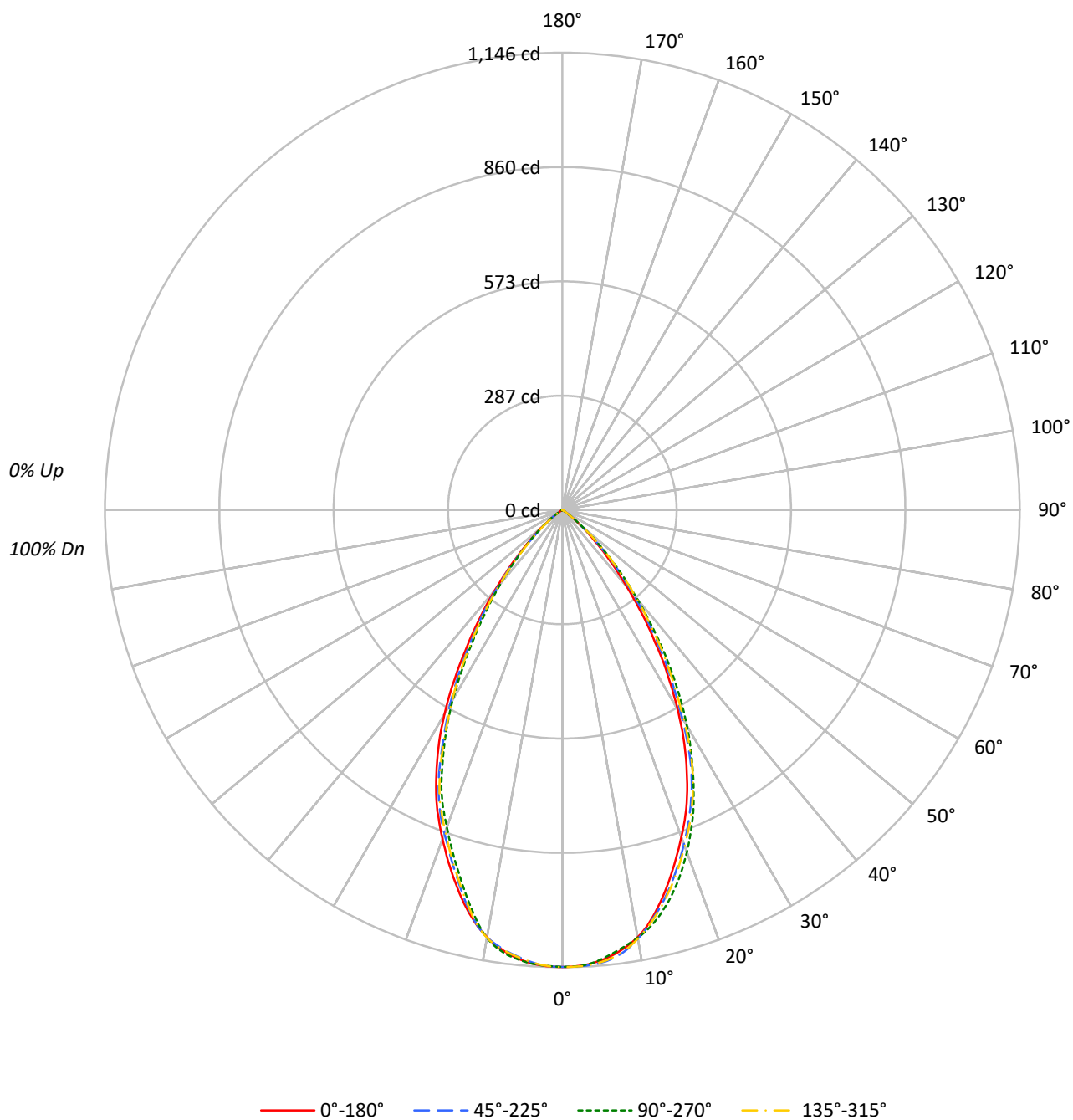
Lumens per Lamp: N/A
Luminaire Lumens: 1120.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): =20%
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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°	141268	141268	141268	141268
5°	140210	139913	140371	140557
10°	136195	136370	136158	136345
15°	126599	130161	127033	123764
20°	114500	119763	115235	111100
25°	100630	105911	101828	96983
30°	82337	88946	84118	77993
35°	61134	68814	62429	56677
40°	40769	47371	42412	38274
45°	23915	28695	25311	23392
50°	11705	13432	12531	12032
55°	3828	4043	4064	4129
60°	888	987	913	1011
65°	438	496	467	525
70°	252	289	289	325
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: 28695 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	9.5
10°-20°	277.3	24.8
20°-30°	338.8	30.3
30°-40°	258.1	23.0
40°-50°	115.1	10.3
50°-60°	20.8	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°	723.0	64.6
0°-40°	981.1	87.6
0°-60°	1117.1	99.7
0°-90°	1119.3	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1120.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1132	1130	1134	1135	1132	107
15°	991	1019	995	969	991	277
25°	739	778	748	713	739	336
35°	406	457	415	376	406	254
45°	137	164	145	134	137	109
55°	18	19	19	19	18	20
65°	2	2	2	2	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1145.3	1145.3	1145.3	1145.3	1145.3	1145.3	1145.3	1145.3	1145.3	1145.3	1145.3
0.5°	1145.5	1145.1	1145.2	1145.5	1145.1	1145.2	1145.7	1145.5	1145.5	1145.1	1145.1
1°	1145.0	1145.0	1145.2	1145.5	1145.1	1145.2	1145.4	1145.4	1145.1	1144.7	1144.7
1.5°	1144.4	1144.6	1145.0	1145.1	1144.7	1145.0	1145.1	1145.0	1144.7	1144.1	1144.1
2°	1143.6	1144.0	1144.7	1144.6	1144.0	1144.3	1144.7	1144.6	1143.9	1143.0	1143.2
2.5°	1142.6	1143.6	1144.2	1143.7	1143.0	1143.3	1144.3	1144.0	1142.9	1141.8	1142.0
3°	1141.5	1143.0	1143.5	1142.5	1141.5	1142.1	1143.3	1143.3	1141.8	1140.1	1140.3
3.5°	1139.7	1142.3	1142.7	1141.0	1139.5	1140.5	1142.2	1142.3	1140.5	1137.9	1138.1
4°	1137.6	1141.3	1141.9	1138.9	1136.7	1138.2	1141.1	1141.3	1138.5	1135.3	1135.6
4.5°	1135.1	1139.9	1140.6	1136.4	1133.5	1135.5	1139.3	1139.9	1136.4	1132.3	1132.8
5°	1132.4	1138.1	1138.5	1133.3	1130.0	1132.2	1137.2	1138.2	1133.7	1129.0	1129.7
5.5°	1129.3	1135.8	1136.3	1130.1	1126.2	1128.8	1134.7	1136.0	1130.9	1125.4	1126.5
6°	1126.1	1133.0	1133.6	1126.4	1122.2	1125.0	1131.9	1133.4	1127.5	1121.6	1123.0
6.5°	1122.4	1129.8	1130.5	1122.7	1118.0	1121.0	1128.6	1130.3	1123.7	1117.8	1119.4
7°	1118.4	1125.9	1126.6	1118.6	1114.0	1117.0	1124.8	1126.6	1119.5	1113.7	1115.8
7.5°	1114.1	1121.4	1122.2	1114.3	1110.0	1112.7	1120.5	1122.3	1115.4	1109.6	1111.9
8°	1109.8	1116.6	1117.1	1109.6	1105.9	1108.3	1115.7	1117.1	1110.5	1105.4	1107.9
8.5°	1104.8	1111.1	1111.6	1104.7	1101.7	1103.9	1110.3	1111.8	1105.3	1100.6	1103.4
9°	1099.4	1105.0	1105.4	1099.5	1097.5	1099.0	1104.2	1105.6	1099.7	1095.8	1098.6
9.5°	1093.5	1098.2	1098.7	1094.0	1093.3	1093.9	1097.9	1098.7	1093.9	1090.5	1093.4
10°	1087.4	1091.1	1091.5	1088.1	1088.8	1088.4	1091.0	1091.5	1087.1	1084.8	1087.5
10.5°	1080.5	1083.3	1083.7	1081.7	1083.8	1082.7	1083.7	1083.5	1080.0	1078.1	1080.4
11°	1072.9	1075.2	1075.6	1075.0	1078.4	1076.5	1076.0	1075.6	1072.6	1071.1	1072.7
11.5°	1064.5	1066.3	1067.3	1067.9	1072.6	1070.1	1068.0	1067.1	1064.5	1063.2	1064.0
12°	1055.2	1057.2	1058.7	1060.1	1066.4	1063.1	1060.0	1058.4	1056.0	1054.1	1054.0
12.5°	1045.5	1047.7	1049.4	1052.6	1059.4	1055.5	1051.5	1049.3	1046.3	1044.2	1042.7
13°	1035.4	1038.2	1040.4	1044.3	1052.3	1047.9	1042.8	1039.7	1037.2	1033.9	1031.7
13.5°	1024.8	1028.0	1031.0	1036.1	1044.6	1040.2	1033.8	1030.3	1027.0	1023.1	1020.2
14°	1013.8	1017.7	1021.6	1027.1	1036.4	1031.6	1024.7	1020.3	1016.7	1011.9	1008.1
14.5°	1002.8	1007.2	1011.9	1018.3	1027.9	1023.0	1015.0	1010.3	1005.7	1000.4	996.0
15°	991.4	996.5	1001.8	1008.9	1019.3	1013.7	1005.8	1000.1	994.8	988.6	983.4
15.5°	979.7	985.6	991.7	999.1	1010.2	1004.4	995.6	989.6	983.7	976.8	970.8
16°	968.1	974.4	981.2	988.7	1000.5	994.5	985.5	978.6	972.3	964.5	958.4
16.5°	956.5	963.4	970.5	978.6	990.7	984.4	974.7	967.6	960.7	952.4	946.2
17°	944.6	952.1	959.7	968.1	980.5	973.9	963.9	956.3	948.9	940.3	933.9
17.5°	932.4	940.7	948.4	957.3	970.0	963.2	953.0	944.6	937.0	928.2	921.7
18°	920.3	928.9	937.0	946.0	958.8	952.4	941.6	933.2	925.4	916.2	909.6
18.5°	908.3	917.1	925.6	934.6	947.6	941.1	930.3	921.8	913.5	904.2	897.7
19°	896.3	905.2	914.4	923.2	935.9	929.7	919.1	910.2	901.3	892.4	885.8
19.5°	884.4	893.4	903.0	911.7	924.5	918.1	907.8	898.3	889.5	880.8	875.2
20°	872.3	881.4	891.4	900.0	912.4	906.7	896.5	886.9	877.9	869.1	863.7
20.5°	860.3	869.8	879.7	888.2	900.5	895.0	884.9	875.8	865.8	857.4	852.3
21°	848.3	857.6	867.9	876.1	888.3	882.7	873.3	864.1	853.6	845.8	840.8
21.5°	836.3	845.7	856.2	863.9	875.3	870.1	861.7	852.5	841.5	834.1	829.4
22°	823.7	833.2	843.9	851.0	862.3	857.5	850.2	840.8	829.3	822.4	816.8

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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°	811.1	821.2	831.7	838.7	849.3	844.8	838.6	829.1	818.2	809.5	804.4
23°	797.4	808.2	819.3	824.8	836.3	832.2	827.1	816.2	805.0	795.7	791.3
23.5°	783.7	795.3	806.7	811.9	823.3	819.5	813.9	803.5	791.3	781.9	777.5
24°	769.3	781.9	793.5	797.5	808.2	805.3	801.2	790.5	777.1	767.8	762.6
24.5°	754.6	768.0	780.6	783.7	793.5	791.2	787.9	776.9	762.8	752.7	747.0
25°	739.4	753.6	766.9	768.6	778.2	776.6	774.3	763.1	748.2	737.4	730.8
25.5°	724.4	739.2	752.9	754.4	763.3	762.0	760.2	749.2	733.5	721.7	713.9
26°	709.1	724.2	738.4	739.3	748.3	747.0	745.9	734.7	718.7	705.9	696.2
26.5°	694.3	709.0	723.5	724.1	733.1	731.9	730.9	719.3	703.3	689.6	678.4
27°	678.3	693.5	707.3	708.8	717.8	716.4	715.3	703.9	688.2	673.2	660.9
27.5°	662.6	678.0	690.5	693.2	703.0	701.4	699.4	688.2	672.9	656.2	643.9
28°	646.3	662.2	673.2	677.3	687.8	686.0	682.1	671.9	657.1	639.5	627.0
28.5°	630.0	645.1	655.1	661.0	672.5	670.0	665.1	655.2	641.0	622.5	610.1
29°	612.8	628.7	636.9	644.7	657.0	654.4	647.2	637.9	624.5	605.9	594.0
29.5°	596.0	611.6	618.0	628.3	641.1	638.2	629.0	620.0	607.6	589.5	577.9
30°	578.1	593.9	599.6	611.2	624.5	621.7	610.0	601.5	590.6	573.0	561.6
30.5°	560.8	575.4	581.3	593.5	607.9	604.5	591.4	582.9	572.8	556.3	545.2
31°	543.5	557.5	563.7	576.0	591.1	587.5	573.4	564.3	555.5	540.2	528.5
31.5°	526.5	538.6	546.4	558.3	574.4	570.2	555.8	545.6	537.6	524.0	511.7
32°	509.2	520.3	529.7	540.4	557.5	552.5	538.9	527.7	520.6	507.9	494.7
32.5°	492.5	501.7	513.0	522.8	541.1	535.1	522.0	510.2	502.2	491.5	477.9
33°	475.8	484.6	497.0	505.3	524.7	517.2	506.2	492.9	484.3	475.6	460.8
33.5°	459.0	466.4	480.7	487.7	508.0	499.7	489.9	476.2	466.4	459.0	443.6
34°	442.4	449.9	464.6	471.2	491.0	482.6	474.0	459.8	449.2	442.5	427.4
34.5°	425.6	432.7	447.9	454.8	474.0	465.8	458.0	443.7	431.4	425.7	410.9
35°	406.0	416.2	431.4	438.8	457.0	449.2	441.9	428.0	414.6	408.6	395.5
35.5°	390.4	400.3	415.4	423.2	440.1	433.0	425.5	411.8	398.1	392.0	380.5
36°	374.9	384.4	399.6	408.3	422.9	417.1	409.4	395.5	382.4	375.6	365.8
36.5°	359.3	368.5	383.9	392.8	406.0	400.9	393.3	379.4	366.1	359.4	351.0
37°	343.7	352.6	368.1	377.3	389.1	385.3	377.2	363.5	350.5	343.6	336.8
37.5°	327.6	336.7	352.4	361.8	372.6	369.9	361.4	347.3	335.4	327.9	322.3
38°	311.9	322.3	336.6	346.3	356.5	354.6	346.7	332.0	320.5	313.1	308.1
38.5°	296.6	307.5	322.1	330.9	340.2	339.2	331.7	317.0	305.7	298.5	293.6
39°	281.9	293.5	308.1	316.2	324.6	324.8	317.6	302.3	291.5	284.3	279.7
39.5°	267.4	279.3	293.8	301.4	309.3	309.7	303.6	288.4	277.3	269.8	265.8
40°	253.2	265.8	279.8	286.8	294.2	295.4	289.7	275.0	263.4	255.8	252.2
40.5°	239.9	252.9	266.2	272.6	279.7	280.4	275.9	261.5	249.6	242.2	238.8
41°	226.8	239.7	252.6	258.9	265.3	266.4	262.2	248.6	236.2	228.9	226.0
41.5°	213.9	227.0	238.8	245.4	251.6	252.2	248.7	236.0	223.4	215.9	213.7
42°	201.9	215.1	226.0	232.4	238.1	238.8	235.3	223.9	211.0	203.1	201.9
42.5°	190.2	203.0	213.2	219.4	225.1	225.2	221.9	211.6	199.0	191.0	189.8
43°	178.8	191.2	200.7	206.3	212.3	212.3	209.0	199.9	187.5	179.3	178.3
43.5°	167.6	179.3	188.4	193.7	199.7	199.4	196.4	188.2	176.0	168.1	166.6
44°	157.2	168.1	177.2	181.3	187.4	187.4	184.3	177.0	165.4	157.5	155.9
44.5°	147.0	157.2	165.8	169.2	175.7	175.2	172.5	165.8	155.0	147.2	144.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	137.1	146.8	155.1	157.5	164.5	163.7	161.2	155.1	145.1	137.3	134.4
45.5°	127.7	136.6	144.6	145.9	153.2	152.2	150.3	144.7	135.4	127.8	124.2
46°	118.9	127.0	134.3	135.1	142.5	141.4	139.6	134.7	125.9	118.8	115.1
46.5°	110.2	117.4	124.2	124.6	131.9	130.6	129.5	124.8	117.2	111.0	107.0
47°	102.1	108.8	114.6	114.7	122.2	120.4	119.4	115.4	109.4	103.1	98.8
47.5°	94.2	100.1	105.1	105.1	113.2	111.6	110.6	107.1	101.6	95.3	90.7
48°	87.0	92.2	96.2	96.1	104.3	102.8	101.9	98.9	93.9	87.5	82.5
48.5°	79.9	84.2	87.6	87.6	95.4	94.0	93.2	90.6	86.1	79.7	75.9
49°	73.3	77.1	79.4	79.7	86.5	85.1	84.4	82.3	78.3	73.1	69.8
49.5°	67.1	70.2	71.6	72.3	77.6	76.3	75.7	74.1	71.7	66.9	64.3
50°	61.0	63.6	64.3	65.1	70.0	69.0	68.3	67.2	65.3	61.2	59.1
50.5°	55.2	57.2	57.6	58.4	62.7	62.0	61.4	60.6	59.3	55.7	54.1
51°	50.0	51.5	51.5	52.1	56.1	55.7	55.1	54.5	53.6	50.7	49.5
51.5°	44.9	46.0	45.8	46.3	49.8	49.7	49.2	48.7	48.2	45.9	45.1
52°	40.2	41.0	40.6	41.1	44.0	44.1	43.7	43.4	43.0	41.4	40.9
52.5°	36.1	36.9	36.5	36.8	38.7	38.8	38.5	38.3	38.2	37.1	36.8
53°	32.1	32.7	32.3	32.6	33.8	34.1	33.8	33.6	33.6	32.9	32.9
53.5°	28.0	28.6	28.2	28.4	29.3	29.6	29.5	29.3	29.4	29.0	29.2
54°	23.9	24.4	24.1	24.2	25.3	25.6	25.6	25.3	25.5	25.3	25.7
54.5°	20.7	20.3	20.0	20.0	21.8	22.1	22.1	21.8	22.0	22.0	22.4
55°	17.8	17.4	17.1	17.2	18.8	19.2	19.1	18.8	18.9	18.9	19.4
55.5°	15.1	14.7	14.5	14.4	16.1	16.4	16.4	16.1	16.1	16.3	16.7
56°	12.5	12.1	11.8	11.8	13.4	13.6	13.6	14.3	14.1	14.5	14.0
56.5°	10.1	9.8	9.6	9.6	11.9	12.0	12.0	12.6	12.2	12.6	12.3
57°	8.2	7.9	7.7	7.9	10.3	10.5	10.5	10.8	10.2	10.8	10.6
57.5°	6.8	6.6	6.4	6.6	8.8	9.0	8.9	9.1	8.2	9.0	9.0
58°	5.7	5.6	5.5	5.6	7.2	7.4	7.4	7.3	6.3	7.2	7.3
58.5°	4.9	4.8	4.8	4.9	5.6	5.9	5.8	5.6	5.4	5.4	5.6
59°	4.3	4.2	4.2	4.3	5.0	5.2	5.1	4.9	4.7	4.7	4.9
59.5°	4.0	3.8	3.8	4.0	4.4	4.6	4.6	4.3	4.2	4.1	4.3
60°	3.6	3.5	3.5	3.6	4.0	4.2	4.1	3.9	3.7	3.7	3.8
60.5°	3.2	3.2	3.1	3.3	3.6	3.8	3.7	3.5	3.3	3.3	3.4
61°	2.9	2.8	2.8	2.9	3.3	3.4	3.4	3.2	3.0	3.0	3.1
61.5°	2.6	2.6	2.6	2.7	3.0	3.1	3.1	2.9	2.8	2.7	2.8
62°	2.4	2.3	2.3	2.4	2.8	2.9	2.8	2.6	2.5	2.5	2.6
62.5°	2.2	2.1	2.2	2.2	2.5	2.6	2.6	2.4	2.3	2.3	2.4
63°	2.0	2.0	2.0	2.1	2.3	2.4	2.4	2.2	2.1	2.1	2.2
63.5°	1.9	1.8	1.8	1.9	2.2	2.3	2.2	2.1	2.0	1.9	2.0
64°	1.7	1.7	1.7	1.8	2.0	2.1	2.0	1.9	1.8	1.8	1.9
64.5°	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.8	1.7	1.7	1.7
65°	1.5	1.4	1.5	1.5	1.7	1.8	1.8	1.6	1.6	1.5	1.6
65.5°	1.4	1.3	1.4	1.4	1.6	1.7	1.6	1.5	1.5	1.4	1.5
66°	1.3	1.2	1.3	1.3	1.5	1.6	1.5	1.4	1.3	1.3	1.4
66.5°	1.2	1.2	1.2	1.2	1.4	1.5	1.4	1.3	1.3	1.2	1.3
67°	1.1	1.1	1.1	1.1	1.3	1.4	1.3	1.2	1.2	1.2	1.2

TEST NUMBER: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-HI-4000K

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	1.1	1.2	1.3	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	1.1	1.0	1.0	1.0
68.5°	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0
69°	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9
69.5°	0.7	0.7	0.7	0.8	0.9	1.0	0.9	0.9	0.8	0.8	0.8
70°	0.7	0.7	0.7	0.7	0.8	0.9	0.9	0.8	0.8	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	0.7	0.6	0.6	0.6	0.6	0.6
72.5°	0.5	0.5	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	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
74.5°	0.3	0.3	0.3	0.4	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	0.4	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.4	0.4	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	0.3	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	0.2	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	0.2	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	0.1
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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.1	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	0.1	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	0.2	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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.2	0.2	0.2	0.2	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	0.3	0.3
140°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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	0.4
145°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4
145.5°	0.2	0.2	0.2	0.2	0.4	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°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
149°	0.3	0.3	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	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5
150.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5
151°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	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	0.6	0.5
157°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6

TEST NUMBER: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.6	0.6	0.6	0.6	0.6	0.6	0.6
158°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	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	0.6	0.6	0.6	0.6	0.6	0.6	0.6
171°	0.3	0.3	0.3	0.3	0.6	0.6	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	0.6	0.6
172°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	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°	0.4	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	0.4	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
179°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4



TEST NUMBER: P1590515
CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1145.3	1145.3	1145.3	1145.3	1145.3	1145.3
0.5°	1145.4	1144.6	1145.0	1145.4	1145.3	1145.5
1°	1145.1	1144.3	1144.7	1144.9	1144.8	1145.0
1.5°	1144.6	1143.8	1144.3	1144.2	1144.0	1144.4
2°	1144.0	1143.2	1143.4	1143.0	1142.9	1143.6
2.5°	1142.9	1142.5	1142.5	1141.8	1141.7	1142.6
3°	1141.9	1141.8	1141.5	1140.1	1139.7	1141.5
3.5°	1140.4	1140.6	1140.0	1138.0	1137.3	1139.7
4°	1138.6	1139.0	1138.2	1135.6	1134.8	1137.6
4.5°	1136.3	1137.3	1136.2	1133.0	1132.0	1135.1
5°	1133.9	1135.2	1134.0	1130.0	1128.8	1132.4
5.5°	1131.4	1132.9	1131.5	1127.0	1125.5	1129.3
6°	1128.5	1130.2	1128.8	1123.9	1121.8	1126.1
6.5°	1125.3	1127.3	1125.7	1120.6	1118.5	1122.4
7°	1121.8	1123.6	1122.4	1117.2	1114.7	1118.4
7.5°	1118.1	1119.6	1118.3	1113.8	1111.1	1114.1
8°	1113.9	1115.0	1114.0	1109.6	1107.1	1109.8
8.5°	1109.5	1109.8	1109.0	1105.5	1102.8	1104.8
9°	1104.1	1103.5	1103.3	1100.4	1098.1	1099.4
9.5°	1098.3	1096.7	1096.8	1095.0	1092.9	1093.5
10°	1091.5	1088.6	1089.3	1088.4	1087.1	1087.4
10.5°	1083.6	1079.6	1080.5	1081.3	1080.7	1080.5
11°	1074.9	1069.4	1070.9	1072.9	1073.4	1072.9
11.5°	1064.5	1058.1	1059.9	1063.3	1065.0	1064.5
12°	1053.6	1045.9	1048.2	1052.5	1055.3	1055.2
12.5°	1041.8	1033.8	1036.1	1041.3	1044.8	1045.5
13°	1029.8	1021.1	1023.4	1029.3	1034.2	1035.4
13.5°	1017.4	1008.7	1010.7	1017.0	1023.0	1024.8
14°	1004.8	995.5	997.8	1004.5	1011.1	1013.8
14.5°	991.9	982.5	984.9	992.1	999.1	1002.8
15°	979.0	969.2	971.7	979.1	987.0	991.4
15.5°	966.5	956.5	959.0	966.9	974.5	979.7
16°	954.0	943.9	946.6	954.1	962.0	968.1
16.5°	941.4	931.8	934.3	942.0	950.3	956.5
17°	929.3	919.3	921.8	929.9	938.0	944.6
17.5°	917.3	906.9	910.0	917.6	926.1	932.4
18°	905.4	894.6	897.6	905.5	913.6	920.3
18.5°	893.1	882.4	885.4	893.6	901.6	908.3
19°	881.5	870.3	873.7	881.6	889.3	896.3
19.5°	870.2	857.9	861.8	869.8	877.4	884.4
20°	858.9	846.4	850.4	858.0	865.1	872.3
20.5°	847.6	834.3	838.6	846.6	853.3	860.3
21°	836.3	822.8	826.9	834.6	841.2	848.3
21.5°	825.0	810.8	815.2	822.8	829.0	836.3
22°	813.4	799.2	803.6	810.8	817.1	823.7

TEST NUMBER: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	801.4	787.0	791.3	798.8	804.4	811.1
23°	788.2	774.0	778.1	785.8	790.9	797.4
23.5°	774.1	760.0	764.3	772.0	777.4	783.7
24°	759.7	744.8	749.6	757.3	762.8	769.3
24.5°	744.8	728.3	734.4	741.5	747.3	754.6
25°	729.1	712.6	718.4	725.2	731.2	739.4
25.5°	712.7	696.6	702.2	708.2	715.1	724.4
26°	696.4	680.8	685.8	690.8	698.4	709.1
26.5°	679.3	664.2	669.1	673.2	681.3	694.3
27°	661.8	648.6	652.3	655.4	663.5	678.3
27.5°	644.1	632.6	634.8	637.6	646.1	662.6
28°	625.9	616.1	617.4	620.1	629.6	646.3
28.5°	608.0	599.5	600.3	602.7	613.1	630.0
29°	590.6	582.6	583.2	585.7	596.9	612.8
29.5°	573.4	565.2	566.0	569.0	580.9	596.0
30°	556.4	547.6	548.4	552.6	565.2	578.1
30.5°	539.3	529.3	530.8	536.1	549.0	560.8
31°	522.6	511.9	513.3	519.5	532.9	543.5
31.5°	505.9	494.0	496.1	503.0	516.4	526.5
32°	489.5	476.6	479.1	486.3	499.5	509.2
32.5°	473.2	459.5	462.3	469.8	482.6	492.5
33°	456.8	442.7	446.0	453.1	465.5	475.8
33.5°	440.3	425.6	430.0	436.1	448.3	459.0
34°	424.1	406.7	414.9	419.9	431.0	442.4
34.5°	407.9	391.5	399.2	404.5	414.4	425.6
35°	392.3	376.4	383.5	389.1	398.6	406.0
35.5°	376.5	361.3	367.8	373.7	382.9	390.4
36°	361.5	346.1	352.1	358.3	367.2	374.9
36.5°	346.3	331.5	336.4	342.9	351.5	359.3
37°	331.4	317.0	321.5	328.4	335.7	343.7
37.5°	316.7	302.9	306.8	314.0	321.1	327.6
38°	302.4	289.5	292.3	300.2	306.7	311.9
38.5°	288.5	276.2	278.3	286.1	292.1	296.6
39°	275.0	263.4	265.5	272.5	278.0	281.9
39.5°	261.5	250.4	252.5	258.6	263.9	267.4
40°	248.1	237.7	239.8	245.3	249.8	253.2
40.5°	235.5	225.7	227.5	232.0	235.7	239.9
41°	223.1	214.1	215.8	219.1	222.6	226.8
41.5°	211.1	202.9	204.3	206.8	209.3	213.9
42°	199.4	192.0	193.1	194.8	196.9	201.9
42.5°	187.8	181.6	182.2	182.7	184.6	190.2
43°	176.8	171.5	171.6	171.8	173.2	178.8
43.5°	166.2	161.6	161.5	160.5	162.0	167.6
44°	156.2	152.1	151.7	149.9	151.2	157.2
44.5°	146.4	142.9	142.4	139.4	140.7	147.0

TEST NUMBER: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	136.9	134.1	133.2	129.6	130.7	137.1
45.5°	127.9	125.5	124.6	120.0	121.3	127.7
46°	119.2	117.5	116.4	111.0	112.3	118.9
46.5°	111.1	109.5	108.4	102.4	103.6	110.2
47°	103.6	101.9	100.8	94.6	95.4	102.1
47.5°	96.1	94.6	93.4	87.3	87.9	94.2
48°	88.7	87.5	86.4	80.4	81.0	87.0
48.5°	81.2	81.0	79.8	74.1	74.5	79.9
49°	74.7	74.6	73.4	68.3	68.2	73.3
49.5°	68.4	68.5	67.4	62.9	62.9	67.1
50°	62.7	62.7	61.6	57.8	57.6	61.0
50.5°	57.2	57.1	56.2	53.0	52.8	55.2
51°	52.1	51.9	51.1	48.5	48.0	50.0
51.5°	47.3	46.8	46.2	44.2	43.8	44.9
52°	42.7	42.1	41.6	40.0	40.0	40.2
52.5°	38.3	38.1	37.7	36.2	36.1	36.1
53°	34.1	34.1	33.9	32.5	32.3	32.1
53.5°	30.3	30.1	30.0	28.8	28.4	28.0
54°	26.5	26.2	26.2	25.1	24.6	23.9
54.5°	23.1	22.2	22.3	21.9	21.3	20.7
55°	20.0	19.2	19.3	19.0	18.3	17.8
55.5°	17.3	16.5	16.7	16.4	15.9	15.1
56°	14.6	13.8	14.0	13.8	13.2	12.5
56.5°	12.9	11.4	11.6	11.3	10.8	10.1
57°	11.1	9.3	9.5	9.2	8.8	8.2
57.5°	9.4	7.8	8.0	7.7	7.3	6.8
58°	7.7	6.6	6.8	6.6	6.2	5.7
58.5°	6.0	5.8	5.9	5.7	5.3	4.9
59°	5.2	5.1	5.2	5.0	4.6	4.3
59.5°	4.6	4.5	4.6	4.5	4.1	4.0
60°	4.1	4.1	4.1	4.1	3.8	3.6
60.5°	3.7	3.8	3.8	3.8	3.5	3.2
61°	3.3	3.5	3.5	3.5	3.1	2.9
61.5°	3.0	3.2	3.2	3.1	2.8	2.6
62°	2.8	2.8	3.0	2.8	2.6	2.4
62.5°	2.5	2.6	2.7	2.6	2.4	2.2
63°	2.3	2.4	2.5	2.4	2.2	2.0
63.5°	2.1	2.2	2.3	2.2	2.0	1.9
64°	2.0	2.1	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	1.8	1.8	1.8	1.6	1.5
65.5°	1.6	1.7	1.7	1.6	1.5	1.4
66°	1.5	1.5	1.6	1.5	1.4	1.3
66.5°	1.4	1.4	1.5	1.4	1.3	1.2
67°	1.3	1.3	1.4	1.3	1.2	1.1

TEST NUMBER: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-HI-4000K

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	1.2	1.2	1.1	1.0	0.9
68.5°	1.0	1.1	1.1	1.0	0.9	0.9
69°	1.0	1.0	1.0	1.0	0.9	0.8
69.5°	0.9	0.9	1.0	0.9	0.8	0.7
70°	0.8	0.9	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°	0.7	0.7	0.7	0.7	0.6	0.5
72°	0.6	0.6	0.7	0.6	0.6	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	0.5	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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.1	0.1	0.1	0.0	0.0
124.5°	0.0	0.1	0.1	0.1	0.1	0.1
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°	0.2	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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.2	0.1	0.1	0.1	0.1
136°	0.2	0.2	0.2	0.2	0.1	0.1
136.5°	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.4	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	0.3	0.3	0.3	0.3	0.2
148.5°	0.4	0.3	0.3	0.3	0.3	0.3
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°	0.5	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°	0.6	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.6	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°	0.6	0.3	0.3	0.3	0.3	0.3
171.5°	0.6	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	0.4	0.3	0.3
177°	0.5	0.4	0.4	0.4	0.4	0.4
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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590515

CATALOG NUMBER: HCDLS510CSD4TRH-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	2.7	3.8	3.1	4.1	4.4	3.7	4.8	4.1	5.1	5.4
	3H	2.7	3.6	3.1	3.9	4.3	3.7	4.6	4.0	4.9	5.3
	4H	2.6	3.5	3.0	3.8	4.2	3.6	4.4	4.0	4.8	5.2
	6H	2.5	3.3	2.9	3.7	4.1	3.5	4.3	3.9	4.6	5.0
	8H	2.5	3.2	2.9	3.6	4.0	3.4	4.2	3.9	4.6	5.0
	12H	2.4	3.1	2.8	3.5	3.9	3.4	4.1	3.8	4.5	4.9
4H	2H	2.6	3.4	3.0	3.8	4.2	3.5	4.4	3.9	4.7	5.1
	3H	2.5	3.2	2.9	3.6	4.0	3.5	4.2	3.9	4.6	5.0
	4H	2.4	3.1	2.9	3.5	3.9	3.4	4.0	3.8	4.4	4.9
	6H	2.4	2.9	2.8	3.3	3.8	3.3	3.8	3.8	4.3	4.8
	8H	2.3	2.8	2.8	3.2	3.7	3.2	3.7	3.7	4.2	4.6
	12H	2.2	2.6	2.7	3.1	3.6	3.2	3.6	3.7	4.1	4.6
8H	4H	2.3	2.8	2.8	3.2	3.7	3.2	3.7	3.7	4.2	4.6
	6H	2.2	2.6	2.7	3.1	3.6	3.1	3.5	3.6	4.0	4.5
	8H	2.1	2.5	2.6	3.0	3.5	3.1	3.4	3.6	3.9	4.4
	12H	2.1	2.4	2.6	2.9	3.4	3.0	3.3	3.5	3.8	4.4
12H	4H	2.2	2.6	2.7	3.1	3.6	3.2	3.6	3.7	4.1	4.6
	6H	2.1	2.5	2.6	2.9	3.5	3.1	3.4	3.6	3.9	4.4
	8H	2.1	2.4	2.6	2.9	3.4	3.0	3.3	3.5	3.8	4.4

(END OF REPORT)