

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: P1590499

Luminaire Tested: HCDLS510CSD4TRC-HI-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590499
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-3500K
Description: 4" Selectable Round Trim + Specular Clear 1000 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

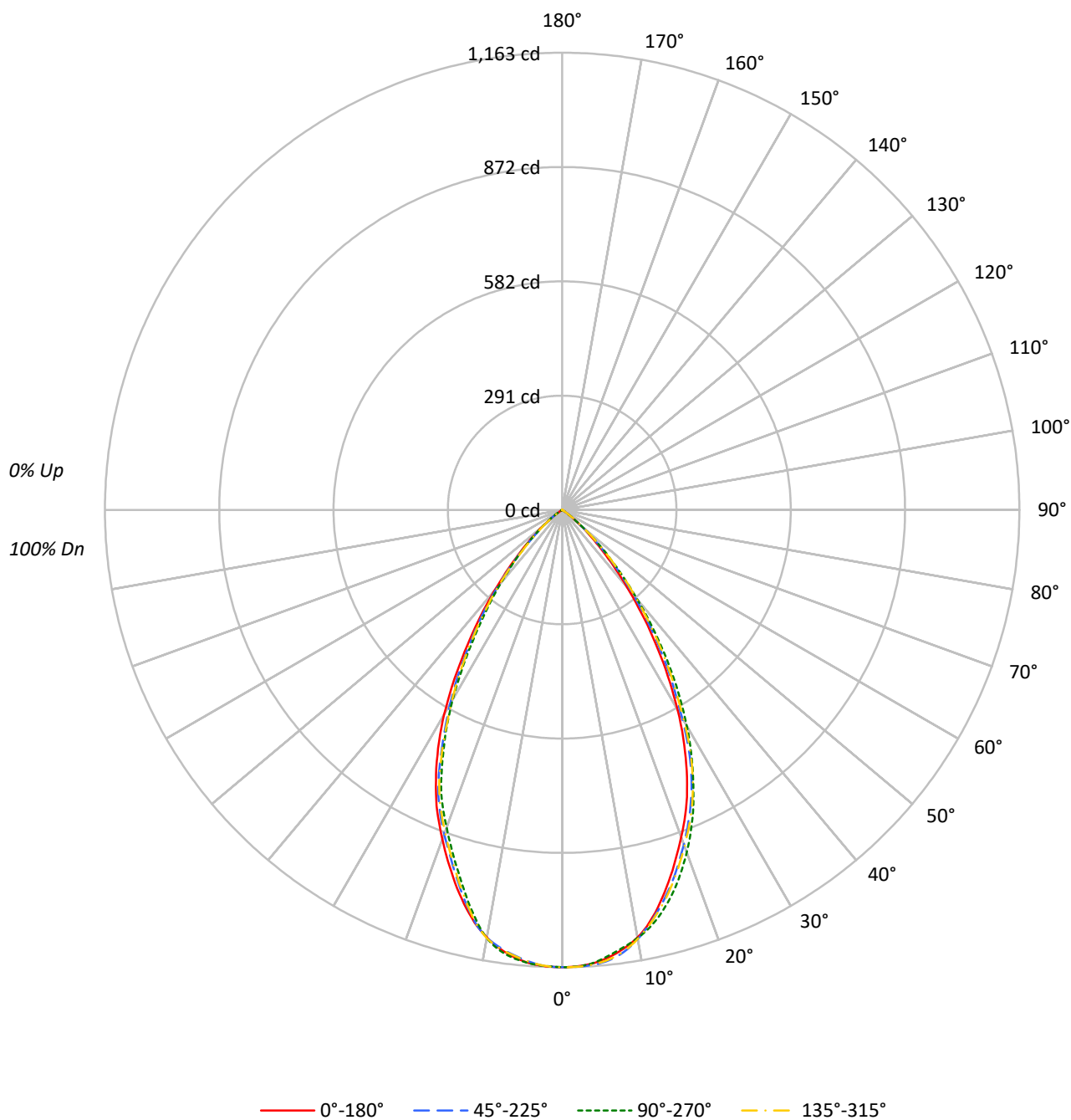
Lumens per Lamp: N/A
Luminaire Lumens: 1137.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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°	143451	143451	143451	143451
5°	142377	142080	142538	142736
10°	138287	138475	138262	138450
15°	128552	132166	128999	125679
20°	116272	121614	117020	112806
25°	102182	107544	103406	98480
30°	83605	90313	85414	79190
35°	62068	69883	63393	57551
40°	41413	48112	43072	38869
45°	24299	29131	25695	23741
50°	11878	13624	12722	12224
55°	3871	4107	4129	4193
60°	913	1011	937	1036
65°	438	525	467	525
70°	252	325	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: 29131 cd/sqm

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	9.5
10°-20°	281.6	24.8
20°-30°	344.1	30.3
30°-40°	262.1	23.0
40°-50°	116.9	10.3
50°-60°	21.2	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°	734.1	64.6
0°-40°	996.3	87.6
0°-60°	1134.3	99.7
0°-90°	1136.6	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1137.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1163	1163	1163	1163	1163	
5°	1150	1148	1151	1153	1150	108
15°	1007	1035	1010	984	1007	281
25°	751	790	760	724	751	341
35°	412	464	421	382	412	258
45°	139	167	147	136	139	111
55°	18	19	19	20	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	0

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0
0.5°	1163.2	1162.8	1162.9	1163.2	1162.8	1162.9	1163.4	1163.2	1163.2	1162.8	1162.8
1°	1162.7	1162.7	1162.9	1163.2	1162.8	1162.9	1163.1	1163.1	1162.8	1162.4	1162.4
1.5°	1162.1	1162.3	1162.7	1162.8	1162.4	1162.7	1162.8	1162.7	1162.4	1161.7	1161.7
2°	1161.2	1161.6	1162.4	1162.3	1161.6	1162.0	1162.4	1162.3	1161.5	1160.6	1160.8
2.5°	1160.2	1161.2	1161.9	1161.3	1160.6	1160.9	1162.0	1161.6	1160.5	1159.4	1159.6
3°	1159.1	1160.6	1161.1	1160.1	1159.1	1159.7	1160.9	1160.9	1159.4	1157.7	1157.9
3.5°	1157.3	1159.9	1160.3	1158.6	1157.1	1158.1	1159.8	1159.9	1158.1	1155.5	1155.7
4°	1155.2	1158.9	1159.5	1156.5	1154.3	1155.8	1158.7	1158.9	1156.1	1152.9	1153.2
4.5°	1152.7	1157.5	1158.2	1154.0	1151.0	1153.1	1156.9	1157.5	1154.0	1149.8	1150.3
5°	1149.9	1155.7	1156.1	1150.8	1147.5	1149.7	1154.8	1155.8	1151.2	1146.4	1147.1
5.5°	1146.7	1153.4	1153.9	1147.6	1143.6	1146.2	1152.3	1153.6	1148.4	1142.8	1143.9
6°	1143.5	1150.5	1151.1	1143.8	1139.5	1142.3	1149.4	1150.9	1144.9	1139.0	1140.3
6.5°	1139.7	1147.2	1148.0	1140.0	1135.3	1138.4	1146.0	1147.8	1141.0	1135.1	1136.7
7°	1135.7	1143.3	1144.0	1135.9	1131.2	1134.3	1142.1	1144.0	1136.8	1130.9	1133.0
7.5°	1131.3	1138.8	1139.5	1131.5	1127.1	1129.9	1137.9	1139.6	1132.6	1126.7	1129.1
8°	1126.9	1133.9	1134.4	1126.7	1122.9	1125.4	1132.9	1134.4	1127.6	1122.4	1125.0
8.5°	1121.8	1128.2	1128.8	1121.7	1118.8	1121.0	1127.4	1129.0	1122.3	1117.6	1120.5
9°	1116.4	1122.0	1122.4	1116.5	1114.5	1116.0	1121.3	1122.6	1116.7	1112.7	1115.6
9.5°	1110.4	1115.2	1115.7	1110.9	1110.2	1110.8	1114.9	1115.7	1110.8	1107.3	1110.3
10°	1104.1	1107.9	1108.3	1104.9	1105.6	1105.2	1107.8	1108.3	1103.9	1101.6	1104.2
10.5°	1097.2	1100.1	1100.5	1098.4	1100.6	1099.4	1100.5	1100.3	1096.7	1094.8	1097.1
11°	1089.4	1091.8	1092.2	1091.6	1095.1	1093.1	1092.6	1092.2	1089.1	1087.6	1089.2
11.5°	1081.0	1082.8	1083.8	1084.4	1089.1	1086.6	1084.5	1083.6	1081.0	1079.6	1080.5
12°	1071.5	1073.5	1075.0	1076.5	1082.9	1079.5	1076.4	1074.7	1072.3	1070.3	1070.2
12.5°	1061.7	1063.9	1065.6	1068.8	1075.8	1071.8	1067.8	1065.5	1062.5	1060.3	1058.8
13°	1051.3	1054.2	1056.5	1060.4	1068.6	1064.1	1058.9	1055.7	1053.2	1049.9	1047.7
13.5°	1040.6	1043.9	1047.0	1052.1	1060.7	1056.2	1049.8	1046.2	1042.9	1038.9	1035.9
14°	1029.5	1033.4	1037.4	1043.0	1052.4	1047.6	1040.5	1036.0	1032.5	1027.5	1023.7
14.5°	1018.3	1022.7	1027.5	1034.0	1043.8	1038.8	1030.7	1025.9	1021.2	1015.8	1011.3
15°	1006.7	1011.9	1017.3	1024.5	1035.0	1029.4	1021.3	1015.5	1010.2	1003.9	998.6
15.5°	994.8	1000.8	1007.0	1014.6	1025.8	1019.9	1011.0	1004.9	998.9	991.9	985.8
16°	983.0	989.4	996.3	1004.0	1016.0	1009.9	1000.7	993.7	987.3	979.4	973.2
16.5°	971.2	978.2	985.5	993.8	1006.0	999.6	989.7	982.5	975.5	967.1	960.8
17°	959.2	966.8	974.5	983.1	995.6	989.0	978.7	971.1	963.5	954.8	948.3
17.5°	946.8	955.2	963.0	972.1	984.9	978.1	967.7	959.2	951.5	942.6	935.9
18°	934.5	943.3	951.4	960.6	973.6	967.1	956.1	947.6	939.7	930.4	923.6
18.5°	922.3	931.2	939.9	949.1	962.3	955.6	944.7	936.0	927.6	918.1	911.6
19°	910.1	919.2	928.5	937.5	950.4	944.0	933.3	924.2	915.2	906.2	899.5
19.5°	898.0	907.2	916.9	925.7	938.8	932.3	921.8	912.1	903.2	894.4	888.7
20°	885.8	895.0	905.2	913.9	926.5	920.7	910.4	900.6	891.5	882.5	877.1
20.5°	873.6	883.3	893.3	901.9	914.4	908.8	898.5	889.3	879.1	870.7	865.5
21°	861.4	870.9	881.3	889.6	902.0	896.4	886.8	877.5	866.8	858.8	853.8
21.5°	849.2	858.7	869.4	877.2	888.8	883.5	875.1	865.6	854.5	847.0	842.2
22°	836.5	846.1	857.0	864.1	875.6	870.7	863.3	853.8	842.1	835.1	829.4

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	823.6	833.9	844.5	851.6	862.5	857.9	851.6	841.9	830.8	822.0	816.8
23°	809.7	820.7	832.0	837.6	849.3	845.0	839.9	828.8	817.4	808.0	803.6
23.5°	795.8	807.6	819.2	824.4	836.0	832.2	826.5	815.9	803.5	794.0	789.5
24°	781.2	794.0	805.7	809.8	820.7	817.8	813.5	802.7	789.1	779.6	774.3
24.5°	766.3	779.9	792.6	795.8	805.7	803.4	800.1	788.9	774.6	764.3	758.5
25°	750.8	765.2	778.7	780.5	790.2	788.6	786.3	774.9	759.8	748.8	742.1
25.5°	735.6	750.6	764.6	766.0	775.1	773.7	772.0	760.7	744.8	732.8	725.0
26°	720.1	735.3	749.8	750.7	759.9	758.6	757.5	746.0	729.8	716.8	706.9
26.5°	705.0	720.0	734.7	735.2	744.4	743.2	742.2	730.5	714.2	700.3	688.9
27°	688.8	704.2	718.2	719.7	728.9	727.5	726.4	714.8	698.8	683.6	671.1
27.5°	672.9	688.4	701.2	703.9	713.9	712.2	710.2	698.8	683.3	666.3	653.8
28°	656.3	672.4	683.6	687.8	698.4	696.6	692.7	682.3	667.2	649.4	636.7
28.5°	639.7	655.0	665.3	671.2	682.9	680.4	675.3	665.3	650.9	632.1	619.5
29°	622.2	638.4	646.7	654.7	667.1	664.5	657.2	647.7	634.1	615.3	603.2
29.5°	605.2	621.1	627.5	638.0	651.0	648.0	638.7	629.6	617.0	598.6	586.8
30°	587.0	603.0	608.8	620.7	634.1	631.3	619.4	610.8	599.7	581.8	570.3
30.5°	569.5	584.2	590.3	602.7	617.3	613.8	600.5	591.9	581.7	564.9	553.6
31°	551.9	566.1	572.4	584.9	600.3	596.6	582.3	573.0	564.1	548.5	536.6
31.5°	534.6	546.9	554.8	566.9	583.3	579.0	564.4	554.0	545.9	532.1	519.6
32°	517.1	528.4	537.9	548.7	566.1	561.1	547.3	535.8	528.7	515.8	502.4
32.5°	500.1	509.4	520.9	530.9	549.5	543.3	530.1	518.0	510.0	499.1	485.3
33°	483.2	492.1	504.7	513.1	532.8	525.2	514.0	500.5	491.8	482.9	467.9
33.5°	466.1	473.6	488.1	495.3	515.8	507.4	497.5	483.6	473.6	466.1	450.4
34°	449.2	456.9	471.8	478.5	498.5	490.0	481.3	466.9	456.1	449.3	434.0
34.5°	432.2	439.4	454.8	461.8	481.3	473.0	465.1	450.5	438.1	432.3	417.2
35°	412.2	422.6	438.0	445.6	464.1	456.2	448.7	434.6	421.0	415.0	401.7
35.5°	396.4	406.5	421.8	429.8	446.9	439.7	432.1	418.1	404.3	398.0	386.4
36°	380.7	390.3	405.8	414.6	429.4	423.5	415.7	401.6	388.3	381.4	371.5
36.5°	364.9	374.2	389.8	398.9	412.3	407.1	399.3	385.3	371.7	365.0	356.4
37°	349.1	358.1	373.8	383.1	395.1	391.3	383.1	369.1	355.9	349.0	342.0
37.5°	332.7	341.9	357.8	367.4	378.3	375.6	367.0	352.7	340.6	333.0	327.3
38°	316.7	327.3	341.8	351.6	362.0	360.1	352.0	337.1	325.4	317.9	312.8
38.5°	301.1	312.3	327.1	336.1	345.5	344.4	336.9	321.9	310.4	303.1	298.1
39°	286.3	298.0	312.9	321.1	329.6	329.8	322.6	307.0	296.0	288.7	284.0
39.5°	271.5	283.7	298.3	306.0	314.0	314.5	308.3	292.8	281.6	273.9	269.9
40°	257.2	270.0	284.1	291.3	298.8	299.9	294.2	279.2	267.5	259.7	256.1
40.5°	243.6	256.8	270.3	276.9	284.0	284.7	280.1	265.5	253.5	245.9	242.5
41°	230.3	243.5	256.5	262.9	269.4	270.5	266.3	252.4	239.9	232.4	229.5
41.5°	217.2	230.5	242.5	249.2	255.5	256.1	252.6	239.6	226.9	219.2	217.0
42°	205.0	218.4	229.5	236.0	241.8	242.5	238.9	227.3	214.2	206.2	205.0
42.5°	193.1	206.1	216.4	222.8	228.6	228.7	225.3	214.9	202.1	193.9	192.8
43°	181.6	194.1	203.8	209.5	215.6	215.6	212.2	203.0	190.4	182.1	181.0
43.5°	170.2	182.1	191.3	196.7	202.8	202.5	199.4	191.1	178.7	170.7	169.2
44°	159.7	170.7	179.9	184.1	190.3	190.3	187.2	179.7	168.0	159.9	158.4
44.5°	149.3	159.6	168.4	171.8	178.4	177.9	175.1	168.3	157.4	149.5	147.0

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	139.3	149.1	157.4	159.9	167.0	166.3	163.7	157.5	147.3	139.4	136.5
45.5°	129.6	138.7	146.9	148.2	155.5	154.5	152.6	146.9	137.5	129.8	126.1
46°	120.8	128.9	136.4	137.2	144.7	143.6	141.8	136.8	127.9	120.6	116.9
46.5°	111.9	119.2	126.2	126.5	133.9	132.6	131.5	126.7	119.0	112.7	108.6
47°	103.7	110.5	116.3	116.5	124.0	122.3	121.3	117.2	111.1	104.7	100.3
47.5°	95.6	101.6	106.8	106.7	115.0	113.3	112.4	108.8	103.2	96.8	92.1
48°	88.3	93.6	97.7	97.6	105.9	104.4	103.5	100.4	95.3	88.8	83.8
48.5°	81.1	85.5	89.0	89.0	96.9	95.4	94.6	92.0	87.4	80.9	77.1
49°	74.4	78.2	80.7	81.0	87.8	86.4	85.7	83.6	79.5	74.3	70.9
49.5°	68.1	71.3	72.7	73.4	78.8	77.5	76.9	75.3	72.8	67.9	65.3
50°	61.9	64.6	65.3	66.1	71.0	70.1	69.4	68.3	66.3	62.1	60.0
50.5°	56.1	58.1	58.5	59.3	63.6	63.0	62.4	61.6	60.3	56.6	54.9
51°	50.8	52.3	52.3	52.9	56.9	56.6	55.9	55.3	54.4	51.5	50.2
51.5°	45.6	46.7	46.5	47.0	50.5	50.4	50.0	49.5	49.0	46.6	45.8
52°	40.8	41.6	41.2	41.7	44.7	44.8	44.3	44.1	43.7	42.0	41.6
52.5°	36.7	37.4	37.0	37.4	39.2	39.4	39.1	38.9	38.8	37.6	37.4
53°	32.6	33.2	32.8	33.1	34.3	34.6	34.4	34.2	34.1	33.4	33.4
53.5°	28.4	29.0	28.7	28.8	29.7	30.0	30.0	29.7	29.9	29.4	29.6
54°	24.3	24.8	24.5	24.6	25.7	26.0	26.0	25.7	25.9	25.7	26.1
54.5°	21.0	20.6	20.3	20.3	22.1	22.5	22.4	22.1	22.3	22.3	22.7
55°	18.0	17.7	17.4	17.5	19.1	19.4	19.4	19.1	19.2	19.2	19.7
55.5°	15.4	15.0	14.7	14.7	16.4	16.6	16.6	16.3	16.4	16.5	16.9
56°	12.7	12.3	12.0	12.0	13.6	13.8	13.8	14.5	14.4	14.7	14.2
56.5°	10.3	9.9	9.7	9.7	12.1	12.2	12.2	12.7	12.4	12.8	12.5
57°	8.3	8.0	7.9	8.0	10.5	10.7	10.6	11.0	10.4	11.0	10.8
57.5°	6.9	6.7	6.5	6.7	8.9	9.1	9.1	9.2	8.4	9.2	9.1
58°	5.8	5.6	5.6	5.7	7.3	7.5	7.5	7.4	6.3	7.3	7.4
58.5°	5.0	4.9	4.8	5.0	5.7	6.0	5.9	5.6	5.5	5.5	5.7
59°	4.4	4.3	4.2	4.4	5.1	5.3	5.2	4.9	4.8	4.8	4.9
59.5°	4.0	3.9	3.9	4.0	4.5	4.7	4.6	4.4	4.2	4.2	4.4
60°	3.7	3.6	3.5	3.7	4.1	4.2	4.1	3.9	3.8	3.7	3.9
60.5°	3.3	3.2	3.2	3.3	3.7	3.8	3.8	3.5	3.4	3.4	3.5
61°	2.9	2.9	2.9	3.0	3.3	3.5	3.4	3.2	3.1	3.0	3.1
61.5°	2.7	2.6	2.6	2.7	3.0	3.2	3.1	2.9	2.8	2.8	2.9
62°	2.4	2.4	2.4	2.5	2.8	2.9	2.9	2.7	2.6	2.5	2.6
62.5°	2.2	2.2	2.2	2.3	2.6	2.7	2.6	2.5	2.4	2.3	2.4
63°	2.1	2.0	2.0	2.1	2.4	2.5	2.4	2.3	2.2	2.1	2.2
63.5°	1.9	1.9	1.9	1.9	2.2	2.3	2.2	2.1	2.0	2.0	2.0
64°	1.7	1.7	1.7	1.8	2.0	2.1	2.1	1.9	1.8	1.8	1.9
64.5°	1.6	1.6	1.6	1.7	1.9	2.0	1.9	1.8	1.7	1.7	1.7
65°	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.7	1.6	1.6	1.6
65.5°	1.4	1.4	1.4	1.4	1.6	1.7	1.7	1.5	1.5	1.5	1.5
66°	1.3	1.3	1.3	1.3	1.5	1.6	1.5	1.4	1.4	1.4	1.4
66.5°	1.2	1.2	1.2	1.2	1.4	1.5	1.4	1.3	1.3	1.3	1.3
67°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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	1.2	1.1	1.1	1.1
68°	1.0	0.9	0.9	1.0	1.1	1.2	1.2	1.1	1.0	1.0	1.0
68.5°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.0	1.0	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°	0.8	0.7	0.8	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	0.9	0.9	0.9	0.8	0.8	0.8	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	0.7	0.7	0.7
71.5°	0.6	0.5	0.6	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	0.5
74°	0.4	0.4	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	0.4
75.5°	0.3	0.3	0.3	0.3	0.4	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	0.3	0.3	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	0.2	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	0.2	0.1	0.1	0.2
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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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	0.1	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	0.2
133.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
134°	0.1	0.1	0.1	0.1	0.2	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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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°	0.2	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	0.2	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	0.3	0.3	0.3
140°	0.2	0.2	0.2	0.2	0.3	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	0.4	0.4	0.4
145°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	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°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
148.5°	0.3	0.3	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	0.3	0.3	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	0.5	0.5	0.5
150.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	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	0.6	0.5
156.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.6
157°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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	0.6	0.6	0.6	0.6	0.6	0.6	0.6
172°	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6
172.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	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	0.4	0.4	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	0.5	0.5	0.5	0.5	0.5	0.5	0.4
179.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4



TEST NUMBER: P1590499
CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1163.0	1163.0	1163.0	1163.0	1163.0	1163.0
0.5°	1163.1	1162.3	1162.7	1163.1	1163.0	1163.2
1°	1162.8	1162.0	1162.4	1162.6	1162.5	1162.7
1.5°	1162.3	1161.4	1162.0	1161.9	1161.6	1162.1
2°	1161.6	1160.8	1161.0	1160.6	1160.5	1161.2
2.5°	1160.5	1160.1	1160.1	1159.4	1159.3	1160.2
3°	1159.5	1159.4	1159.1	1157.7	1157.3	1159.1
3.5°	1158.0	1158.2	1157.6	1155.6	1154.9	1157.3
4°	1156.2	1156.6	1155.8	1153.2	1152.4	1155.2
4.5°	1153.9	1154.9	1153.8	1150.5	1149.5	1152.7
5°	1151.4	1152.8	1151.5	1147.5	1146.2	1149.9
5.5°	1148.9	1150.4	1149.0	1144.4	1142.9	1146.7
6°	1145.9	1147.7	1146.2	1141.2	1139.2	1143.5
6.5°	1142.7	1144.7	1143.1	1138.0	1135.8	1139.7
7°	1139.2	1140.9	1139.7	1134.5	1131.9	1135.7
7.5°	1135.4	1136.9	1135.6	1131.0	1128.2	1131.3
8°	1131.1	1132.2	1131.2	1126.7	1124.2	1126.9
8.5°	1126.6	1126.9	1126.1	1122.5	1119.9	1121.8
9°	1121.2	1120.6	1120.4	1117.4	1115.1	1116.4
9.5°	1115.3	1113.6	1113.7	1111.9	1109.8	1110.4
10°	1108.3	1105.4	1106.1	1105.2	1103.9	1104.1
10.5°	1100.4	1096.3	1097.2	1098.0	1097.4	1097.2
11°	1091.5	1086.0	1087.4	1089.4	1090.0	1089.4
11.5°	1081.0	1074.4	1076.3	1079.7	1081.5	1081.0
12°	1069.8	1062.1	1064.4	1068.7	1071.6	1071.5
12.5°	1057.9	1049.8	1052.1	1057.4	1060.9	1061.7
13°	1045.7	1036.8	1039.2	1045.2	1050.2	1051.3
13.5°	1033.2	1024.3	1026.3	1032.8	1038.8	1040.6
14°	1020.4	1010.9	1013.3	1020.0	1026.7	1029.5
14.5°	1007.2	997.7	1000.1	1007.4	1014.6	1018.3
15°	994.2	984.2	986.7	994.2	1002.2	1006.7
15.5°	981.4	971.2	973.8	981.8	989.5	994.8
16°	968.7	958.4	961.2	968.9	976.9	983.0
16.5°	956.0	946.2	948.7	956.5	965.0	971.2
17°	943.7	933.5	936.0	944.3	952.5	959.2
17.5°	931.5	921.0	924.0	931.8	940.4	946.8
18°	919.4	908.4	911.4	919.5	927.8	934.5
18.5°	906.9	896.0	899.0	907.4	915.5	922.3
19°	895.1	883.7	887.2	895.2	903.0	910.1
19.5°	883.6	871.2	875.1	883.3	890.9	898.0
20°	872.2	859.4	863.6	871.3	878.5	885.8
20.5°	860.7	847.2	851.5	859.7	866.5	873.6
21°	849.2	835.5	839.7	847.5	854.2	861.4
21.5°	837.7	823.4	827.8	835.5	841.8	849.2
22°	825.9	811.5	816.0	823.3	829.7	836.5

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	813.7	799.2	803.5	811.1	816.8	823.6
23°	800.4	786.0	790.1	797.9	803.1	809.7
23.5°	786.0	771.7	776.1	783.9	789.4	795.8
24°	771.4	756.3	761.2	769.0	774.5	781.2
24.5°	756.3	739.5	745.7	752.9	758.9	766.3
25°	740.4	723.6	729.5	736.4	742.5	750.8
25.5°	723.8	707.4	713.1	719.2	726.1	735.6
26°	707.1	691.3	696.4	701.4	709.2	720.1
26.5°	689.8	674.5	679.5	683.6	691.9	705.0
27°	672.0	658.6	662.4	665.5	673.8	688.8
27.5°	654.0	642.4	644.6	647.4	656.1	672.9
28°	635.5	625.6	627.0	629.6	639.3	656.3
28.5°	617.3	608.7	609.6	612.0	622.5	639.7
29°	599.7	591.6	592.2	594.8	606.1	622.2
29.5°	582.3	573.9	574.8	577.8	589.8	605.2
30°	565.0	556.0	556.8	561.1	573.9	587.0
30.5°	547.6	537.5	539.0	544.3	557.4	569.5
31°	530.7	519.8	521.3	527.5	541.1	551.9
31.5°	513.7	501.6	503.7	510.8	524.4	534.6
32°	497.1	483.9	486.5	493.9	507.2	517.1
32.5°	480.5	466.6	469.4	477.0	490.1	500.1
33°	463.9	449.5	452.8	460.1	472.7	483.2
33.5°	447.1	432.1	436.6	442.8	455.2	466.1
34°	430.6	413.0	421.3	426.4	437.6	449.2
34.5°	414.2	397.6	405.4	410.7	420.8	432.2
35°	398.3	382.2	389.4	395.1	404.8	412.2
35.5°	382.3	366.8	373.5	379.5	388.8	396.4
36°	367.1	351.5	357.6	363.8	372.9	380.7
36.5°	351.7	336.6	341.6	348.2	356.9	364.9
37°	336.5	321.9	326.5	333.5	340.9	349.1
37.5°	321.6	307.6	311.6	318.9	326.1	332.7
38°	307.1	294.0	296.8	304.9	311.4	316.7
38.5°	293.0	280.5	282.6	290.5	296.6	301.1
39°	279.2	267.5	269.6	276.7	282.3	286.3
39.5°	265.5	254.3	256.4	262.6	268.0	271.5
40°	252.0	241.4	243.5	249.1	253.7	257.2
40.5°	239.1	229.2	231.0	235.6	239.4	243.6
41°	226.5	217.4	219.2	222.5	226.0	230.3
41.5°	214.3	206.0	207.5	210.0	212.5	217.2
42°	202.4	195.0	196.0	197.8	199.9	205.0
42.5°	190.7	184.4	185.0	185.5	187.5	193.1
43°	179.6	174.2	174.3	174.5	175.9	181.6
43.5°	168.8	164.1	164.0	163.0	164.5	170.2
44°	158.6	154.5	154.0	152.2	153.6	159.7
44.5°	148.6	145.1	144.6	141.5	142.9	149.3

TEST NUMBER: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	139.0	136.1	135.3	131.6	132.7	139.3
45.5°	129.9	127.5	126.6	121.9	123.2	129.6
46°	121.1	119.3	118.2	112.7	114.0	120.8
46.5°	112.8	111.2	110.1	104.0	105.2	111.9
47°	105.2	103.4	102.3	96.1	96.9	103.7
47.5°	97.6	96.0	94.8	88.6	89.3	95.6
48°	90.0	88.9	87.7	81.6	82.2	88.3
48.5°	82.5	82.2	81.0	75.2	75.7	81.1
49°	75.8	75.8	74.6	69.3	69.3	74.4
49.5°	69.5	69.6	68.5	63.9	63.9	68.1
50°	63.7	63.7	62.5	58.7	58.5	61.9
50.5°	58.1	58.0	57.0	53.8	53.6	56.1
51°	52.9	52.7	51.9	49.2	48.8	50.8
51.5°	48.0	47.5	47.0	44.9	44.4	45.6
52°	43.4	42.7	42.3	40.6	40.6	40.8
52.5°	38.9	38.7	38.3	36.8	36.7	36.7
53°	34.6	34.6	34.4	33.0	32.8	32.6
53.5°	30.8	30.6	30.5	29.2	28.9	28.4
54°	26.9	26.6	26.6	25.5	24.9	24.3
54.5°	23.4	22.5	22.6	22.2	21.6	21.0
55°	20.3	19.5	19.6	19.3	18.6	18.0
55.5°	17.6	16.8	16.9	16.6	16.1	15.4
56°	14.9	14.0	14.2	14.0	13.4	12.7
56.5°	13.1	11.5	11.8	11.5	11.0	10.3
57°	11.3	9.5	9.7	9.4	8.9	8.3
57.5°	9.6	7.9	8.1	7.8	7.4	6.9
58°	7.8	6.7	6.9	6.7	6.3	5.8
58.5°	6.0	5.8	6.0	5.8	5.4	5.0
59°	5.2	5.1	5.3	5.1	4.7	4.4
59.5°	4.6	4.5	4.7	4.5	4.2	4.0
60°	4.1	4.2	4.2	4.2	3.8	3.7
60.5°	3.7	3.9	3.9	3.9	3.5	3.3
61°	3.4	3.6	3.6	3.5	3.2	2.9
61.5°	3.1	3.2	3.3	3.2	2.9	2.7
62°	2.8	2.9	3.0	2.9	2.6	2.4
62.5°	2.6	2.7	2.8	2.6	2.4	2.2
63°	2.4	2.4	2.5	2.4	2.2	2.1
63.5°	2.2	2.3	2.4	2.2	2.0	1.9
64°	2.0	2.1	2.2	2.1	1.9	1.7
64.5°	1.9	1.9	2.0	1.9	1.7	1.6
65°	1.7	1.8	1.9	1.8	1.6	1.5
65.5°	1.6	1.7	1.7	1.6	1.5	1.4
66°	1.5	1.6	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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.2	1.3	1.3	1.2	1.1	1.0
68°	1.1	1.2	1.2	1.1	1.0	1.0
68.5°	1.0	1.1	1.1	1.1	1.0	0.9
69°	1.0	1.0	1.1	1.0	0.9	0.8
69.5°	0.9	0.9	1.0	0.9	0.8	0.8
70°	0.8	0.9	0.9	0.9	0.8	0.7
70.5°	0.8	0.8	0.8	0.8	0.7	0.6
71°	0.7	0.8	0.8	0.7	0.7	0.6
71.5°	0.7	0.7	0.7	0.7	0.6	0.6
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	0.6	0.6	0.5	0.5	0.4
73.5°	0.5	0.5	0.5	0.5	0.4	0.4
74°	0.5	0.5	0.5	0.5	0.4	0.4
74.5°	0.4	0.4	0.5	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	0.4	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	0.3	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	0.2	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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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	0.2	0.2	0.1	0.1
136°	0.2	0.2	0.2	0.2	0.2	0.2
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°	0.3	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	0.3	0.3	0.3	0.3	0.2
148°	0.4	0.3	0.3	0.3	0.3	0.3
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°	0.5	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°	0.6	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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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°	0.6	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	0.4	0.4	0.4	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°	0.5	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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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: P1590499

CATALOG NUMBER: HCDLS510CSD4TRC-HI-3500K

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

(END OF REPORT)