

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: P1590514

Luminaire Tested: HCDLS510CSD4TRH-HI-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590514
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-3500K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 1000 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

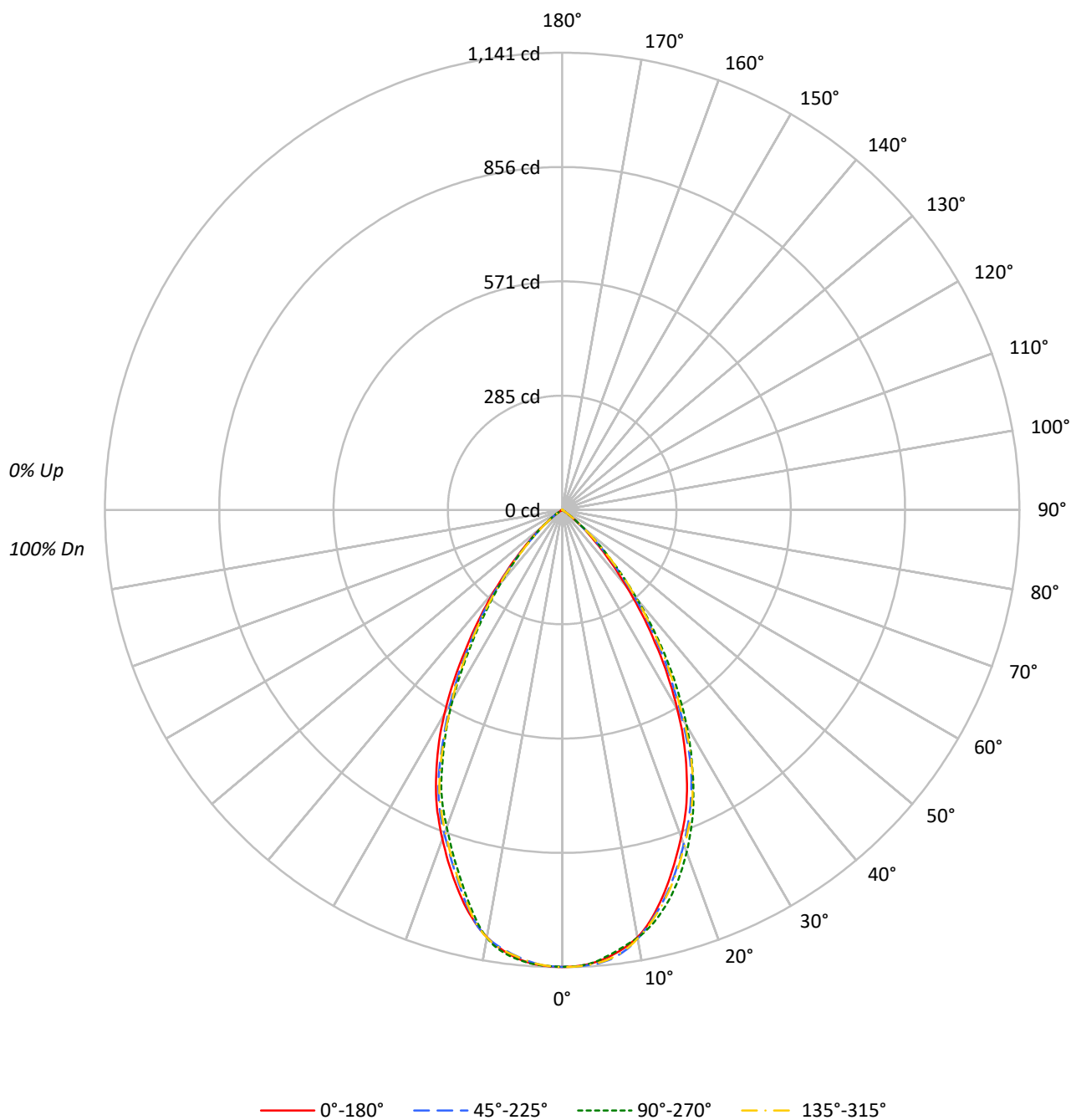
Lumens per Lamp: N/A
Luminaire Lumens: 1115.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
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°	140639	140639	140639	140639
5°	139591	139294	139752	139938
10°	135581	135757	135556	135732
15°	126037	129574	126471	123215
20°	113988	119225	114723	110601
25°	100181	105434	101379	96547
30°	81967	88547	83733	77637
35°	60863	68513	62143	56421
40°	40592	47162	42218	38113
45°	23811	28573	25189	23287
50°	11648	13356	12473	11974
55°	3806	4043	4043	4107
60°	888	987	913	1011
65°	438	496	467	525
70°	252	289	252	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: 28573 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	9.5
10°-20°	276.1	24.8
20°-30°	337.3	30.3
30°-40°	257.0	23.0
40°-50°	114.6	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°	719.7	64.6
0°-40°	976.7	87.6
0°-60°	1112.1	99.7
0°-90°	1114.3	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1115.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1140	1140	1140	1140	1140	
5°	1127	1125	1129	1130	1127	106
15°	987	1015	990	965	987	275
25°	736	775	745	709	736	335
35°	404	455	413	375	404	252
45°	136	164	144	134	136	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°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
0.5°	1140.4	1140.0	1140.1	1140.4	1140.0	1140.1	1140.6	1140.4	1140.4	1140.0	1140.0
1°	1139.9	1139.9	1140.1	1140.4	1140.0	1140.1	1140.3	1140.3	1140.0	1139.6	1139.6
1.5°	1139.3	1139.5	1139.9	1140.0	1139.6	1139.9	1140.0	1139.9	1139.6	1139.0	1139.0
2°	1138.5	1138.9	1139.6	1139.5	1138.9	1139.2	1139.6	1139.5	1138.8	1137.9	1138.1
2.5°	1137.5	1138.5	1139.1	1138.6	1137.9	1138.2	1139.2	1138.9	1137.8	1136.7	1136.9
3°	1136.4	1137.9	1138.4	1137.4	1136.4	1137.0	1138.2	1138.2	1136.7	1135.0	1135.2
3.5°	1134.6	1137.2	1137.6	1135.9	1134.4	1135.4	1137.1	1137.2	1135.4	1132.9	1133.1
4°	1132.6	1136.2	1136.8	1133.9	1131.7	1133.2	1136.0	1136.2	1133.5	1130.3	1130.6
4.5°	1130.1	1134.8	1135.5	1131.4	1128.5	1130.5	1134.3	1134.8	1131.4	1127.3	1127.8
5°	1127.4	1133.1	1133.5	1128.3	1125.0	1127.2	1132.2	1133.2	1128.7	1124.0	1124.7
5.5°	1124.3	1130.8	1131.3	1125.1	1121.1	1123.7	1129.7	1131.0	1125.9	1120.3	1121.4
6°	1121.0	1128.0	1128.6	1121.3	1117.1	1119.9	1126.9	1128.4	1122.4	1116.6	1117.9
6.5°	1117.3	1124.8	1125.5	1117.6	1113.0	1116.0	1123.5	1125.3	1118.6	1112.8	1114.4
7°	1113.4	1120.8	1121.5	1113.6	1109.0	1112.0	1119.7	1121.5	1114.5	1108.7	1110.8
7.5°	1109.1	1116.4	1117.1	1109.3	1105.0	1107.7	1115.5	1117.2	1110.4	1104.6	1106.9
8°	1104.8	1111.6	1112.1	1104.6	1100.9	1103.3	1110.7	1112.1	1105.5	1100.4	1102.9
8.5°	1099.8	1106.1	1106.6	1099.7	1096.8	1099.0	1105.3	1106.8	1100.3	1095.7	1098.5
9°	1094.5	1100.0	1100.4	1094.6	1092.6	1094.1	1099.3	1100.6	1094.8	1090.9	1093.7
9.5°	1088.6	1093.3	1093.8	1089.1	1088.4	1089.0	1093.0	1093.8	1089.0	1085.6	1088.5
10°	1082.5	1086.2	1086.6	1083.2	1083.9	1083.5	1086.1	1086.6	1082.3	1080.0	1082.6
10.5°	1075.7	1078.5	1078.9	1076.9	1079.0	1077.9	1078.9	1078.7	1075.2	1073.3	1075.6
11°	1068.1	1070.4	1070.8	1070.2	1073.6	1071.7	1071.2	1070.8	1067.8	1066.3	1067.9
11.5°	1059.8	1061.6	1062.6	1063.2	1067.8	1065.3	1063.3	1062.4	1059.8	1058.5	1059.3
12°	1050.5	1052.5	1054.0	1055.4	1061.7	1058.4	1055.3	1053.7	1051.3	1049.4	1049.3
12.5°	1040.8	1043.0	1044.7	1047.9	1054.7	1050.8	1046.9	1044.6	1041.6	1039.5	1038.0
13°	1030.7	1033.5	1035.7	1039.6	1047.7	1043.2	1038.1	1035.0	1032.5	1029.3	1027.1
13.5°	1020.2	1023.4	1026.4	1031.4	1039.9	1035.5	1029.2	1025.7	1022.4	1018.5	1015.6
14°	1009.3	1013.1	1017.0	1022.5	1031.7	1027.0	1020.1	1015.7	1012.2	1007.4	1003.6
14.5°	998.3	1002.7	1007.4	1013.7	1023.3	1018.4	1010.5	1005.8	1001.2	995.9	991.5
15°	987.0	992.1	997.3	1004.4	1014.7	1009.2	1001.3	995.6	990.4	984.2	979.0
15.5°	975.3	981.2	987.3	994.7	1005.7	999.9	991.2	985.2	979.3	972.4	966.4
16°	963.8	970.0	976.8	984.3	996.0	990.1	981.1	974.2	967.9	960.2	954.1
16.5°	952.2	959.1	966.2	974.3	986.3	980.0	970.3	963.2	956.4	948.1	942.0
17°	940.4	947.9	955.4	963.8	976.1	969.6	959.6	952.0	944.6	936.1	929.7
17.5°	928.3	936.5	944.1	953.0	965.6	958.9	948.8	940.4	932.9	924.1	917.6
18°	916.2	924.8	932.8	941.7	954.5	948.2	937.4	929.0	921.2	912.1	905.5
18.5°	904.2	913.0	921.5	930.5	943.4	936.9	926.1	917.7	909.4	900.1	893.7
19°	892.3	901.1	910.3	919.1	931.7	925.5	915.0	906.1	897.2	888.5	881.9
19.5°	880.4	889.5	898.9	907.6	920.4	914.0	903.8	894.3	885.5	876.9	871.3
20°	868.4	877.5	887.4	895.9	908.3	902.6	892.5	883.0	874.0	865.2	859.9
20.5°	856.5	865.9	875.8	884.3	896.5	891.0	880.9	871.9	861.9	853.6	848.5
21°	844.5	853.8	864.0	872.2	884.4	878.8	869.4	860.3	849.8	842.0	837.1
21.5°	832.6	841.9	852.4	860.0	871.4	866.2	857.9	848.7	837.7	830.4	825.7
22°	820.1	829.5	840.2	847.2	858.5	853.6	846.4	837.0	825.6	818.7	813.2

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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°	807.5	817.5	828.0	834.9	845.5	841.0	834.9	825.4	814.6	805.9	800.8
23°	793.8	804.6	815.7	821.1	832.6	828.5	823.4	812.6	801.4	792.2	787.8
23.5°	780.2	791.8	803.1	808.3	819.6	815.9	810.3	799.9	787.7	778.4	774.0
24°	765.9	778.4	789.9	793.9	804.6	801.8	797.6	786.9	773.6	764.4	759.2
24.5°	751.3	764.6	777.1	780.2	789.9	787.7	784.4	773.4	759.4	749.3	743.6
25°	736.1	750.2	763.4	765.2	774.7	773.2	770.8	759.7	744.9	734.1	727.6
25.5°	721.1	735.9	749.6	751.0	759.9	758.6	756.8	745.8	730.2	718.4	710.8
26°	706.0	720.9	735.1	736.0	745.0	743.7	742.6	731.4	715.5	702.7	693.1
26.5°	691.2	705.8	720.2	720.8	729.8	728.6	727.6	716.1	700.2	686.6	675.4
27°	675.3	690.4	704.1	705.6	714.6	713.3	712.1	700.8	685.1	670.2	657.9
27.5°	659.7	675.0	687.5	690.1	699.9	698.2	696.2	685.1	669.9	653.2	641.0
28°	643.4	659.2	670.2	674.3	684.8	683.0	679.1	668.9	654.1	636.7	624.2
28.5°	627.1	642.2	652.2	658.0	669.5	667.0	662.1	652.3	638.1	619.7	607.4
29°	610.0	625.9	634.1	641.8	654.1	651.5	644.3	635.0	621.7	603.2	591.4
29.5°	593.3	608.9	615.2	625.5	638.3	635.3	626.2	617.2	604.9	586.9	575.3
30°	575.5	591.2	596.9	608.5	621.7	618.9	607.3	598.9	587.9	570.4	559.1
30.5°	558.3	572.8	578.7	590.9	605.2	601.8	588.8	580.3	570.3	553.9	542.8
31°	541.1	555.0	561.1	573.4	588.5	584.9	570.8	561.8	553.1	537.8	526.1
31.5°	524.1	536.2	543.9	555.8	571.9	567.6	553.4	543.2	535.2	521.6	509.4
32°	506.9	518.0	527.3	538.0	555.0	550.1	536.5	525.3	518.3	505.7	492.5
32.5°	490.3	499.4	510.7	520.4	538.7	532.7	519.7	507.9	500.0	489.3	475.8
33°	473.7	482.4	494.8	503.0	522.3	514.9	503.9	490.7	482.2	473.5	458.7
33.5°	456.9	464.3	478.6	485.6	505.7	497.5	487.8	474.1	464.3	456.9	441.6
34°	440.4	447.9	462.5	469.1	488.8	480.4	471.9	457.8	447.2	440.5	425.5
34.5°	423.7	430.8	445.9	452.8	471.8	463.7	455.9	441.7	429.5	423.8	409.1
35°	404.2	414.3	429.4	436.9	455.0	447.2	439.9	426.1	412.7	406.8	393.8
35.5°	388.7	398.5	413.5	421.4	438.2	431.0	423.6	409.9	396.4	390.2	378.8
36°	373.2	382.7	397.8	406.5	421.0	415.2	407.6	393.7	380.7	373.9	364.2
36.5°	357.7	366.9	382.2	391.1	404.2	399.1	391.5	377.7	364.4	357.8	349.4
37°	342.2	351.0	366.5	375.6	387.4	383.6	375.6	361.9	349.0	342.1	335.3
37.5°	326.2	335.2	350.8	360.2	370.9	368.2	359.8	345.8	333.9	326.5	320.9
38°	310.5	320.9	335.1	344.7	354.9	353.0	345.1	330.5	319.1	311.7	306.7
38.5°	295.2	306.1	320.7	329.5	338.7	337.7	330.3	315.6	304.3	297.2	292.3
39°	280.7	292.2	306.7	314.8	323.2	323.3	316.2	301.0	290.2	283.0	278.4
39.5°	266.2	278.1	292.4	300.0	307.9	308.3	302.3	287.1	276.1	268.6	264.6
40°	252.1	264.7	278.6	285.6	292.9	294.1	288.5	273.8	262.2	254.6	251.1
40.5°	238.8	251.7	265.0	271.4	278.5	279.1	274.6	260.3	248.5	241.1	237.7
41°	225.8	238.7	251.4	257.7	264.1	265.2	261.1	247.5	235.2	227.9	225.0
41.5°	213.0	226.0	237.7	244.3	250.5	251.1	247.6	234.9	222.4	214.9	212.8
42°	201.0	214.1	225.0	231.4	237.0	237.7	234.2	222.9	210.0	202.2	201.0
42.5°	189.4	202.1	212.2	218.5	224.1	224.2	220.9	210.7	198.1	190.1	189.0
43°	178.0	190.3	199.8	205.4	211.4	211.4	208.1	199.0	186.7	178.5	177.5
43.5°	166.9	178.5	187.6	192.8	198.8	198.5	195.5	187.4	175.2	167.3	165.9
44°	156.5	167.3	176.4	180.5	186.6	186.5	183.5	176.2	164.7	156.8	155.3
44.5°	146.3	156.5	165.1	168.4	174.9	174.4	171.7	165.0	154.3	146.5	144.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	136.5	146.2	154.4	156.8	163.8	163.0	160.5	154.4	144.4	136.7	133.8
45.5°	127.1	135.9	144.0	145.3	152.5	151.5	149.6	144.1	134.8	127.2	123.6
46°	118.4	126.4	133.7	134.5	141.8	140.8	139.0	134.1	125.4	118.3	114.6
46.5°	109.7	116.9	123.7	124.0	131.3	130.0	129.0	124.2	116.7	110.5	106.5
47°	101.7	108.3	114.1	114.2	121.6	119.9	118.9	114.9	108.9	102.7	98.4
47.5°	93.8	99.6	104.7	104.6	112.7	111.1	110.2	106.7	101.2	94.9	90.3
48°	86.6	91.8	95.8	95.7	103.9	102.3	101.5	98.4	93.4	87.1	82.2
48.5°	79.5	83.8	87.2	87.2	95.0	93.5	92.8	90.2	85.7	79.3	75.6
49°	73.0	76.7	79.1	79.4	86.1	84.7	84.0	82.0	78.0	72.8	69.5
49.5°	66.8	69.9	71.3	71.9	77.3	76.0	75.3	73.8	71.3	66.6	64.0
50°	60.7	63.4	64.1	64.8	69.6	68.7	68.0	66.9	65.0	60.9	58.8
50.5°	55.0	56.9	57.4	58.1	62.4	61.8	61.2	60.4	59.1	55.5	53.9
51°	49.8	51.3	51.3	51.9	55.8	55.5	54.8	54.3	53.3	50.4	49.3
51.5°	44.7	45.8	45.6	46.1	49.6	49.4	49.0	48.5	48.0	45.7	44.9
52°	40.0	40.8	40.4	40.9	43.8	43.9	43.5	43.2	42.9	41.2	40.8
52.5°	36.0	36.7	36.3	36.7	38.5	38.7	38.4	38.2	38.0	36.9	36.7
53°	31.9	32.6	32.2	32.5	33.6	33.9	33.7	33.5	33.4	32.7	32.8
53.5°	27.9	28.4	28.1	28.3	29.1	29.5	29.4	29.2	29.3	28.8	29.1
54°	23.8	24.3	24.0	24.1	25.2	25.5	25.5	25.2	25.4	25.2	25.5
54.5°	20.6	20.2	19.9	19.9	21.7	22.0	22.0	21.7	21.9	21.9	22.3
55°	17.7	17.3	17.1	17.1	18.8	19.1	19.0	18.7	18.8	18.9	19.3
55.5°	15.1	14.7	14.4	14.4	16.0	16.3	16.3	16.0	16.1	16.2	16.6
56°	12.5	12.0	11.8	11.8	13.4	13.6	13.5	14.2	14.1	14.4	13.9
56.5°	10.1	9.7	9.5	9.5	11.8	12.0	12.0	12.5	12.1	12.6	12.2
57°	8.2	7.9	7.7	7.8	10.3	10.4	10.4	10.8	10.2	10.8	10.6
57.5°	6.7	6.5	6.4	6.6	8.7	8.9	8.9	9.0	8.2	9.0	8.9
58°	5.7	5.5	5.5	5.6	7.2	7.4	7.3	7.3	6.2	7.2	7.3
58.5°	4.9	4.8	4.7	4.9	5.6	5.9	5.8	5.5	5.4	5.4	5.6
59°	4.3	4.2	4.2	4.3	5.0	5.2	5.1	4.8	4.7	4.7	4.8
59.5°	4.0	3.8	3.8	3.9	4.4	4.6	4.5	4.3	4.2	4.1	4.3
60°	3.6	3.5	3.5	3.6	4.0	4.1	4.1	3.8	3.7	3.7	3.8
60.5°	3.2	3.1	3.1	3.2	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	3.3	3.1	3.0	3.0	3.1
61.5°	2.6	2.5	2.6	2.7	3.0	3.1	3.1	2.9	2.7	2.7	2.8
62°	2.4	2.3	2.3	2.4	2.7	2.9	2.8	2.6	2.5	2.5	2.6
62.5°	2.2	2.1	2.1	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	2.1	2.2	2.2	2.0	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	1.8
64.5°	1.6	1.6	1.6	1.6	1.8	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	1.7	1.6	1.6	1.5	1.6
65.5°	1.4	1.3	1.3	1.4	1.6	1.7	1.6	1.5	1.4	1.4	1.5
66°	1.3	1.2	1.2	1.3	1.5	1.6	1.5	1.4	1.3	1.3	1.4
66.5°	1.2	1.1	1.2	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.3
67°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.2	1.2	1.1	1.2

TEST NUMBER: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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	1.1	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	0.8	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	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	0.7	0.6	0.6	0.6	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	0.4	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	0.1	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	0.2	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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.0	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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.1	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	0.2	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	0.3
145°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	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	0.5	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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.5	0.5	0.5	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	0.5	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	0.5
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	0.4
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	0.4	0.4	0.4	0.4



TEST NUMBER: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
0.5°	1140.3	1139.5	1139.9	1140.3	1140.2	1140.4
1°	1140.0	1139.2	1139.6	1139.8	1139.7	1139.9
1.5°	1139.5	1138.7	1139.2	1139.1	1138.9	1139.3
2°	1138.9	1138.1	1138.3	1137.9	1137.8	1138.5
2.5°	1137.8	1137.4	1137.4	1136.7	1136.6	1137.5
3°	1136.8	1136.7	1136.4	1135.0	1134.6	1136.4
3.5°	1135.3	1135.5	1134.9	1133.0	1132.3	1134.6
4°	1133.6	1134.0	1133.2	1130.6	1129.8	1132.6
4.5°	1131.3	1132.3	1131.2	1128.0	1127.0	1130.1
5°	1128.9	1130.2	1129.0	1125.0	1123.7	1127.4
5.5°	1126.4	1127.9	1126.5	1121.9	1120.4	1124.3
6°	1123.4	1125.2	1123.7	1118.8	1116.8	1121.0
6.5°	1120.2	1122.2	1120.6	1115.6	1113.5	1117.3
7°	1116.8	1118.5	1117.3	1112.2	1109.7	1113.4
7.5°	1113.1	1114.6	1113.3	1108.8	1106.1	1109.1
8°	1108.9	1110.0	1109.0	1104.6	1102.1	1104.8
8.5°	1104.5	1104.8	1104.0	1100.5	1097.9	1099.8
9°	1099.2	1098.6	1098.4	1095.5	1093.2	1094.5
9.5°	1093.4	1091.8	1091.9	1090.1	1088.0	1088.6
10°	1086.6	1083.7	1084.4	1083.5	1082.3	1082.5
10.5°	1078.8	1074.8	1075.7	1076.5	1075.9	1075.7
11°	1070.1	1064.7	1066.1	1068.1	1068.6	1068.1
11.5°	1059.8	1053.4	1055.2	1058.6	1060.3	1059.8
12°	1048.9	1041.2	1043.5	1047.8	1050.6	1050.5
12.5°	1037.1	1029.2	1031.4	1036.6	1040.1	1040.8
13°	1025.2	1016.5	1018.8	1024.7	1029.6	1030.7
13.5°	1012.9	1004.2	1006.2	1012.5	1018.4	1020.2
14°	1000.4	991.0	993.4	1000.0	1006.6	1009.3
14.5°	987.5	978.2	980.5	987.7	994.7	998.3
15°	974.7	964.9	967.4	974.7	982.6	987.0
15.5°	962.1	952.2	954.7	962.5	970.1	975.3
16°	949.7	939.6	942.4	949.9	957.7	963.8
16.5°	937.2	927.6	930.1	937.8	946.1	952.2
17°	925.2	915.2	917.7	925.7	933.8	940.4
17.5°	913.2	902.9	905.9	913.5	921.9	928.3
18°	901.3	890.6	893.6	901.4	909.6	916.2
18.5°	889.1	878.4	881.4	889.6	897.5	904.2
19°	877.6	866.4	869.8	877.6	885.3	892.3
19.5°	866.3	854.1	858.0	866.0	873.4	880.4
20°	855.1	842.6	846.6	854.2	861.3	868.4
20.5°	843.8	830.6	834.8	842.8	849.5	856.5
21°	832.6	819.1	823.2	830.8	837.4	844.5
21.5°	821.3	807.2	811.6	819.1	825.3	832.6
22°	809.7	795.6	800.0	807.1	813.4	820.1

TEST NUMBER: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	797.8	783.5	787.7	795.2	800.8	807.5
23°	784.7	770.6	774.6	782.3	787.4	793.8
23.5°	770.6	756.6	760.9	768.6	773.9	780.2
24°	756.3	741.5	746.3	753.9	759.4	765.9
24.5°	741.4	725.0	731.1	738.2	744.0	751.3
25°	725.9	709.4	715.2	722.0	727.9	736.1
25.5°	709.6	693.5	699.1	705.0	711.9	721.1
26°	693.2	677.7	682.8	687.7	695.3	706.0
26.5°	676.3	661.2	666.1	670.2	678.3	691.2
27°	658.8	645.7	649.4	652.5	660.6	675.3
27.5°	641.2	629.8	632.0	634.7	643.3	659.7
28°	623.1	613.3	614.7	617.3	626.8	643.4
28.5°	605.2	596.8	597.6	600.0	610.3	627.1
29°	587.9	580.0	580.6	583.1	594.2	610.0
29.5°	570.9	562.7	563.5	566.5	578.3	593.3
30°	553.9	545.1	545.9	550.1	562.6	575.5
30.5°	536.8	526.9	528.5	533.7	546.5	558.3
31°	520.3	509.6	511.0	517.2	530.5	541.1
31.5°	503.6	491.8	493.9	500.7	514.1	524.1
32°	487.3	474.4	476.9	484.2	497.3	506.9
32.5°	471.1	457.4	460.2	467.7	480.4	490.3
33°	454.8	440.7	444.0	451.1	463.5	473.7
33.5°	438.3	423.7	428.1	434.1	446.3	456.9
34°	422.2	404.9	413.0	418.0	429.0	440.4
34.5°	406.1	389.8	397.4	402.7	412.5	423.7
35°	390.5	374.7	381.8	387.3	396.9	404.2
35.5°	374.8	359.7	366.2	372.0	381.2	388.7
36°	359.9	344.6	350.5	356.7	365.5	373.2
36.5°	344.8	330.0	334.9	341.3	349.9	357.7
37°	329.9	315.6	320.1	326.9	334.2	342.2
37.5°	315.3	301.6	305.5	312.6	319.7	326.2
38°	301.0	288.2	291.0	298.9	305.3	310.5
38.5°	287.2	275.0	277.0	284.8	290.8	295.2
39°	273.7	262.3	264.3	271.3	276.8	280.7
39.5°	260.3	249.3	251.4	257.5	262.7	266.2
40°	247.0	236.7	238.7	244.2	248.7	252.1
40.5°	234.4	224.7	226.5	231.0	234.7	238.8
41°	222.1	213.2	214.9	218.2	221.6	225.8
41.5°	210.1	202.0	203.4	205.9	208.4	213.0
42°	198.5	191.2	192.2	193.9	196.0	201.0
42.5°	187.0	180.8	181.4	181.9	183.8	189.4
43°	176.0	170.8	170.9	171.0	172.5	178.0
43.5°	165.5	160.9	160.7	159.8	161.2	166.9
44°	155.5	151.5	151.0	149.2	150.6	156.5
44.5°	145.7	142.3	141.7	138.7	140.1	146.3

TEST NUMBER: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	136.3	133.5	132.6	129.0	130.1	136.5
45.5°	127.3	125.0	124.1	119.5	120.8	127.1
46°	118.7	116.9	115.9	110.5	111.8	118.4
46.5°	110.6	109.0	107.9	102.0	103.1	109.7
47°	103.1	101.4	100.3	94.2	95.0	101.7
47.5°	95.7	94.1	93.0	86.9	87.5	93.8
48°	88.3	87.1	86.0	80.0	80.6	86.6
48.5°	80.9	80.6	79.4	73.7	74.2	79.5
49°	74.3	74.3	73.1	68.0	67.9	73.0
49.5°	68.1	68.2	67.1	62.7	62.6	66.8
50°	62.5	62.4	61.3	57.6	57.4	60.7
50.5°	57.0	56.9	55.9	52.8	52.5	55.0
51°	51.9	51.6	50.8	48.3	47.8	49.8
51.5°	47.1	46.6	46.0	44.0	43.6	44.7
52°	42.5	41.9	41.4	39.8	39.8	40.0
52.5°	38.1	37.9	37.6	36.1	36.0	36.0
53°	34.0	34.0	33.7	32.4	32.1	31.9
53.5°	30.1	30.0	29.9	28.7	28.3	27.9
54°	26.4	26.0	26.0	25.0	24.5	23.8
54.5°	23.0	22.1	22.2	21.8	21.2	20.6
55°	19.9	19.1	19.2	18.9	18.3	17.7
55.5°	17.2	16.4	16.6	16.3	15.8	15.1
56°	14.6	13.8	13.9	13.7	13.2	12.5
56.5°	12.8	11.3	11.6	11.3	10.8	10.1
57°	11.1	9.3	9.5	9.2	8.7	8.2
57.5°	9.4	7.8	7.9	7.7	7.2	6.7
58°	7.6	6.6	6.8	6.5	6.1	5.7
58.5°	5.9	5.7	5.9	5.7	5.3	4.9
59°	5.1	5.0	5.2	5.0	4.6	4.3
59.5°	4.5	4.5	4.6	4.4	4.1	4.0
60°	4.1	4.1	4.1	4.1	3.8	3.6
60.5°	3.6	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°	2.7	2.8	2.9	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	1.7	1.6	1.5
65.5°	1.6	1.6	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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-HI-3500K

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	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	0.5	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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.1	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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.5	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	0.4	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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590514

CATALOG NUMBER: HCDLS510CSD4TRH-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	2.7	3.7	3.0	4.0	4.3	3.7	4.8	4.1	5.1	5.4
	3H	2.6	3.5	3.0	3.9	4.2	3.6	4.6	4.0	4.9	5.3
	4H	2.5	3.4	2.9	3.7	4.1	3.6	4.4	4.0	4.8	5.2
	6H	2.4	3.2	2.9	3.6	4.0	3.5	4.2	3.9	4.6	5.0
	8H	2.4	3.1	2.8	3.5	3.9	3.4	4.1	3.9	4.5	4.9
	12H	2.3	3.0	2.8	3.4	3.8	3.4	4.1	3.8	4.4	4.9
4H	2H	2.5	3.3	2.9	3.7	4.1	3.5	4.4	3.9	4.7	5.1
	3H	2.5	3.1	2.9	3.5	3.9	3.5	4.1	3.9	4.6	5.0
	4H	2.4	3.0	2.8	3.4	3.8	3.4	4.0	3.8	4.4	4.9
	6H	2.3	2.8	2.7	3.2	3.7	3.3	3.8	3.8	4.3	4.7
	8H	2.2	2.7	2.7	3.1	3.6	3.2	3.7	3.7	4.1	4.6
	12H	2.1	2.6	2.6	3.0	3.5	3.2	3.6	3.6	4.1	4.5
8H	4H	2.2	2.7	2.7	3.1	3.6	3.2	3.7	3.7	4.2	4.6
	6H	2.1	2.5	2.6	3.0	3.5	3.1	3.5	3.6	4.0	4.5
	8H	2.0	2.4	2.6	2.9	3.4	3.0	3.4	3.6	3.9	4.4
	12H	2.0	2.3	2.5	2.8	3.4	3.0	3.3	3.5	3.8	4.4
12H	4H	2.1	2.6	2.6	3.1	3.5	3.2	3.6	3.6	4.1	4.5
	6H	2.0	2.4	2.6	2.9	3.4	3.0	3.4	3.6	3.9	4.4
	8H	2.0	2.3	2.5	2.8	3.4	3.0	3.3	3.5	3.8	4.4

(END OF REPORT)