

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: P1590500

Luminaire Tested: HCDLS510CSD4TRC-HI-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590500
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-4000K
Description: 4" Selectable Round Trim + Specular Clear 1000 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

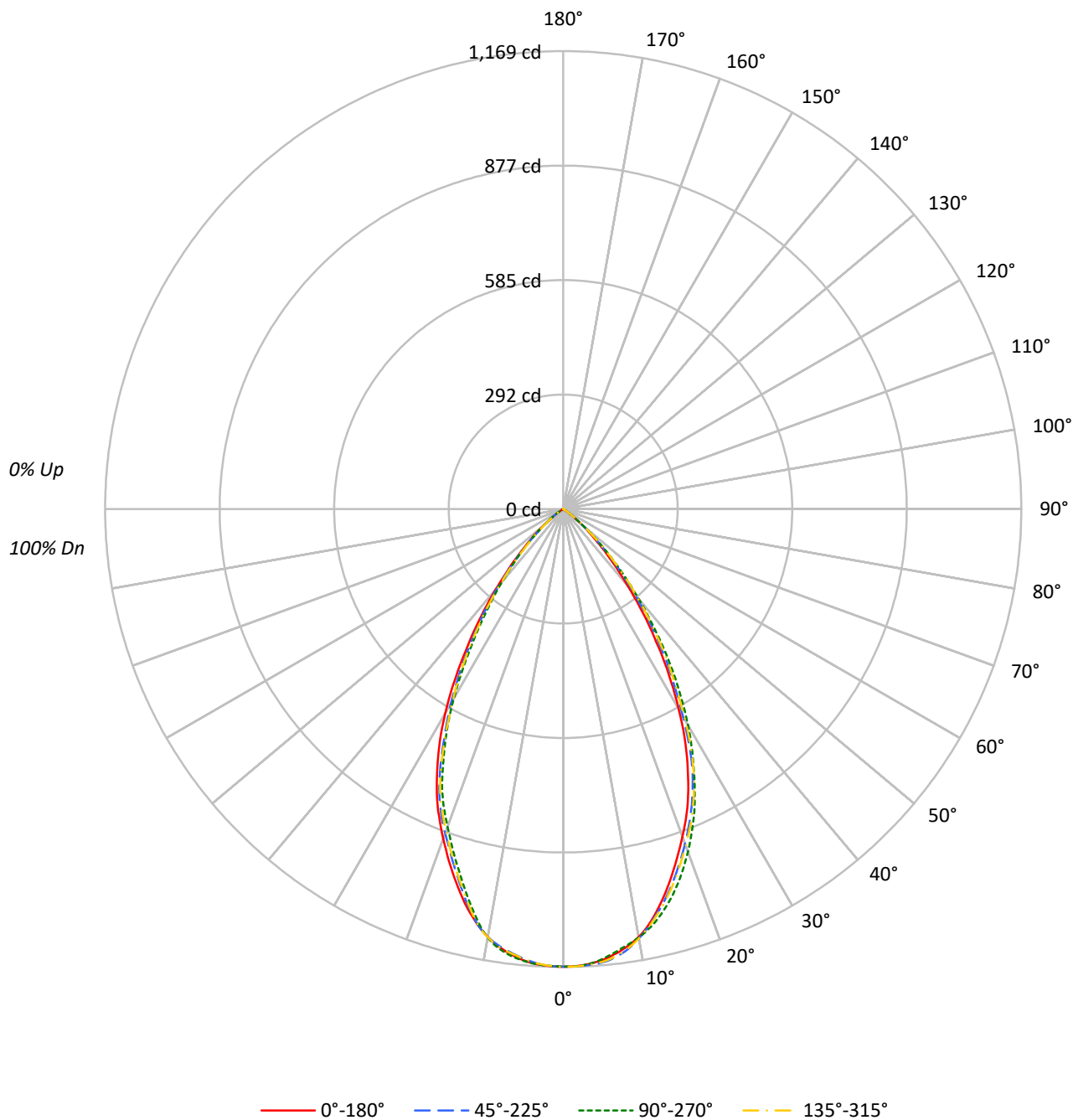
Lumens per Lamp: N/A
Luminaire Lumens: 1142.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	144092	144092	144092	144092
5°	143021	142711	143182	143367
10°	138913	139088	138888	139063
15°	129127	132754	129574	126241
20°	116784	122152	117545	113318
25°	102644	108034	103869	98929
30°	83975	90726	85798	79546
35°	62354	70199	63679	57807
40°	41591	48321	43265	39046
45°	24404	29271	25817	23863
50°	11936	13701	12780	12281
55°	3892	4129	4150	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: 29271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	9.5
10°-20°	282.9	24.8
20°-30°	345.6	30.3
30°-40°	263.3	23.0
40°-50°	117.4	10.3
50°-60°	21.3	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°	737.4	64.6
0°-40°	1000.7	87.6
0°-60°	1139.4	99.7
0°-90°	1141.7	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1142.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1168	1168	1168	1168	1168	
5°	1155	1153	1156	1158	1155	109
15°	1011	1040	1015	989	1011	282
25°	754	794	763	727	754	343
35°	414	466	423	384	414	259
45°	140	168	148	137	140	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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2
0.5°	1168.4	1168.0	1168.1	1168.4	1168.0	1168.1	1168.6	1168.4	1168.4	1168.0	1168.0
1°	1167.9	1167.9	1168.1	1168.4	1168.0	1168.1	1168.3	1168.3	1168.0	1167.6	1167.6
1.5°	1167.3	1167.5	1167.9	1168.0	1167.6	1167.9	1168.0	1167.9	1167.6	1167.0	1167.0
2°	1166.4	1166.9	1167.6	1167.5	1166.9	1167.2	1167.6	1167.5	1166.8	1165.8	1166.0
2.5°	1165.4	1166.4	1167.1	1166.5	1165.8	1166.1	1167.2	1166.9	1165.7	1164.6	1164.8
3°	1164.3	1165.8	1166.3	1165.3	1164.3	1164.9	1166.1	1166.1	1164.6	1162.9	1163.1
3.5°	1162.4	1165.1	1165.5	1163.8	1162.2	1163.3	1165.0	1165.1	1163.3	1160.7	1160.9
4°	1160.4	1164.1	1164.7	1161.7	1159.5	1161.0	1163.9	1164.1	1161.3	1158.0	1158.3
4.5°	1157.8	1162.6	1163.4	1159.2	1156.2	1158.2	1162.1	1162.6	1159.2	1155.0	1155.5
5°	1155.1	1160.9	1161.3	1156.0	1152.6	1154.9	1160.0	1161.0	1156.4	1151.6	1152.3
5.5°	1151.9	1158.5	1159.1	1152.7	1148.7	1151.4	1157.4	1158.8	1153.5	1147.9	1149.0
6°	1148.6	1155.7	1156.3	1148.9	1144.6	1147.5	1154.5	1156.1	1150.0	1144.1	1145.4
6.5°	1144.8	1152.4	1153.1	1145.1	1140.4	1143.5	1151.2	1152.9	1146.1	1140.2	1141.8
7°	1140.8	1148.4	1149.1	1141.0	1136.3	1139.4	1147.3	1149.1	1141.9	1136.0	1138.1
7.5°	1136.4	1143.9	1144.6	1136.6	1132.2	1135.0	1143.0	1144.7	1137.7	1131.8	1134.1
8°	1132.0	1139.0	1139.5	1131.8	1128.0	1130.4	1138.0	1139.5	1132.7	1127.5	1130.0
8.5°	1126.8	1133.3	1133.8	1126.7	1123.8	1126.0	1132.5	1134.0	1127.4	1122.6	1125.5
9°	1121.4	1127.1	1127.5	1121.5	1119.5	1121.0	1126.3	1127.7	1121.7	1117.7	1120.6
9.5°	1115.4	1120.2	1120.7	1115.9	1115.2	1115.8	1119.9	1120.7	1115.8	1112.3	1115.3
10°	1109.1	1112.9	1113.3	1109.8	1110.5	1110.1	1112.8	1113.3	1108.9	1106.5	1109.2
10.5°	1102.1	1105.0	1105.4	1103.4	1105.5	1104.4	1105.4	1105.2	1101.6	1099.7	1102.0
11°	1094.3	1096.7	1097.1	1096.5	1100.0	1098.0	1097.5	1097.1	1094.0	1092.5	1094.1
11.5°	1085.8	1087.7	1088.7	1089.3	1094.0	1091.5	1089.4	1088.5	1085.8	1084.5	1085.3
12°	1076.3	1078.3	1079.9	1081.3	1087.8	1084.4	1081.2	1079.6	1077.1	1075.1	1075.0
12.5°	1066.4	1068.7	1070.4	1073.6	1080.6	1076.6	1072.6	1070.3	1067.2	1065.1	1063.5
13°	1056.1	1058.9	1061.2	1065.2	1073.4	1068.9	1063.7	1060.5	1057.9	1054.6	1052.4
13.5°	1045.3	1048.6	1051.6	1056.8	1065.5	1061.0	1054.5	1050.9	1047.5	1043.5	1040.6
14°	1034.1	1038.0	1042.0	1047.6	1057.1	1052.3	1045.2	1040.7	1037.1	1032.2	1028.3
14.5°	1022.9	1027.3	1032.2	1038.6	1048.5	1043.4	1035.3	1030.5	1025.8	1020.4	1015.9
15°	1011.2	1016.5	1021.8	1029.1	1039.6	1034.0	1025.9	1020.1	1014.7	1008.4	1003.0
15.5°	999.2	1005.3	1011.5	1019.1	1030.4	1024.5	1015.5	1009.4	1003.4	996.3	990.2
16°	987.4	993.9	1000.8	1008.5	1020.5	1014.4	1005.2	998.2	991.7	983.8	977.6
16.5°	975.6	982.6	989.9	998.2	1010.5	1004.1	994.2	986.9	979.9	971.4	965.1
17°	963.5	971.2	978.9	987.5	1000.1	993.4	983.1	975.4	967.9	959.1	952.6
17.5°	951.1	959.5	967.3	976.4	989.4	982.5	972.1	963.5	955.8	946.8	940.1
18°	938.7	947.5	955.7	964.9	977.9	971.5	960.4	951.8	943.9	934.6	927.8
18.5°	926.4	935.4	944.1	953.3	966.6	959.9	948.9	940.2	931.8	922.3	915.7
19°	914.2	923.3	932.7	941.7	954.6	948.2	937.5	928.4	919.3	910.3	903.5
19.5°	902.1	911.3	921.0	929.9	943.0	936.5	926.0	916.2	907.3	898.4	892.7
20°	889.7	899.1	909.2	918.0	930.6	924.8	914.4	904.7	895.5	886.5	881.0
20.5°	877.5	887.2	897.3	906.0	918.5	912.9	902.6	893.3	883.1	874.6	869.3
21°	865.2	874.8	885.2	893.6	906.1	900.4	890.8	881.4	870.7	862.7	857.7
21.5°	853.0	862.6	873.3	881.1	892.8	887.5	879.0	869.5	858.3	850.8	846.0
22°	840.2	849.9	860.8	868.0	879.6	874.6	867.2	857.6	845.9	838.9	833.1

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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°	827.3	837.6	848.3	855.4	866.3	861.7	855.4	845.7	834.6	825.7	820.4
23°	813.3	824.4	835.7	841.3	853.1	848.8	843.6	832.6	821.1	811.6	807.2
23.5°	799.4	811.2	822.9	828.1	839.8	835.9	830.2	819.6	807.1	797.5	793.0
24°	784.7	797.6	809.3	813.4	824.3	821.5	817.2	806.3	792.6	783.1	777.8
24.5°	769.7	783.4	796.2	799.3	809.4	807.0	803.7	792.4	778.0	767.8	761.9
25°	754.2	768.6	782.2	784.0	793.8	792.2	789.8	778.4	763.2	752.2	745.4
25.5°	738.9	754.0	768.0	769.5	778.6	777.2	775.4	764.1	748.2	736.1	728.2
26°	723.3	738.6	753.1	754.1	763.3	762.0	760.8	749.3	733.1	720.0	710.1
26.5°	708.2	723.2	737.9	738.5	747.8	746.5	745.5	733.7	717.4	703.4	692.0
27°	691.9	707.4	721.4	722.9	732.2	730.8	729.6	718.0	701.9	686.6	674.1
27.5°	675.9	691.5	704.4	707.0	717.1	715.4	713.4	701.9	686.4	669.3	656.8
28°	659.2	675.4	686.7	690.9	701.6	699.7	695.8	685.3	670.2	652.3	639.6
28.5°	642.6	658.0	668.2	674.2	685.9	683.4	678.4	668.3	653.8	635.0	622.3
29°	625.0	641.3	649.6	657.6	670.1	667.5	660.1	650.6	637.0	618.0	605.9
29.5°	607.9	623.9	630.4	640.9	654.0	650.9	641.6	632.4	619.8	601.3	589.4
30°	589.6	605.8	611.6	623.5	637.0	634.2	622.2	613.6	602.4	584.4	572.9
30.5°	572.0	586.9	593.0	605.4	620.1	616.6	603.2	594.6	584.3	567.5	556.1
31°	554.4	568.6	574.9	587.5	603.0	599.3	584.9	575.6	566.6	551.0	539.0
31.5°	537.0	549.4	557.3	569.5	585.9	581.6	567.0	556.5	548.3	534.5	522.0
32°	519.4	530.7	540.3	551.2	568.6	563.6	549.7	538.2	531.0	518.1	504.6
32.5°	502.4	511.7	523.3	533.2	551.9	545.8	532.5	520.4	512.3	501.3	487.5
33°	485.3	494.3	506.9	515.4	535.2	527.6	516.3	502.8	494.0	485.1	470.0
33.5°	468.2	475.7	490.3	497.5	518.1	509.7	499.7	485.8	475.7	468.1	452.4
34°	451.3	458.9	473.9	480.6	500.8	492.2	483.5	469.0	458.1	451.3	436.0
34.5°	434.1	441.3	456.9	463.9	483.4	475.1	467.1	452.6	440.1	434.3	419.1
35°	414.1	424.5	440.0	447.6	466.2	458.2	450.7	436.6	422.9	416.8	403.5
35.5°	398.2	408.3	423.7	431.7	448.9	441.6	434.1	420.0	406.1	399.8	388.1
36°	382.4	392.1	407.6	416.5	431.3	425.4	417.6	403.4	390.1	383.1	373.1
36.5°	366.5	375.9	391.6	400.7	414.1	409.0	401.1	387.0	373.4	366.6	358.0
37°	350.6	359.7	375.5	384.8	396.9	393.0	384.8	370.8	357.5	350.5	343.6
37.5°	334.2	343.5	359.4	369.0	380.0	377.3	368.7	354.3	342.1	334.5	328.8
38°	318.1	328.7	343.3	353.2	363.6	361.7	353.6	338.6	326.9	319.3	314.2
38.5°	302.5	313.7	328.5	337.6	347.0	346.0	338.4	323.3	311.8	304.5	299.4
39°	287.6	299.4	314.3	322.5	331.1	331.3	324.0	308.4	297.3	290.0	285.3
39.5°	272.7	284.9	299.6	307.4	315.4	315.9	309.7	294.1	282.9	275.2	271.1
40°	258.3	271.2	285.4	292.6	300.1	301.3	295.5	280.5	268.7	260.9	257.2
40.5°	244.7	257.9	271.5	278.1	285.3	286.0	281.4	266.7	254.6	247.0	243.6
41°	231.3	244.5	257.6	264.0	270.6	271.7	267.5	253.6	241.0	233.5	230.5
41.5°	218.2	231.5	243.6	250.3	256.6	257.2	253.7	240.7	227.9	220.2	218.0
42°	205.9	219.4	230.6	237.1	242.9	243.5	240.0	228.4	215.2	207.1	205.9
42.5°	194.0	207.1	217.4	223.8	229.6	229.7	226.3	215.8	203.0	194.8	193.6
43°	182.4	195.0	204.7	210.4	216.6	216.6	213.2	203.9	191.3	182.9	181.8
43.5°	171.0	182.9	192.2	197.5	203.7	203.4	200.3	192.0	179.5	171.4	170.0
44°	160.4	171.4	180.7	184.9	191.2	191.1	188.0	180.5	168.7	160.6	159.1
44.5°	149.9	160.3	169.2	172.6	179.2	178.7	175.9	169.1	158.1	150.2	147.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	139.9	149.8	158.2	160.6	167.8	167.0	164.4	158.2	148.0	140.0	137.1
45.5°	130.2	139.3	147.5	148.9	156.2	155.2	153.3	147.6	138.1	130.3	126.7
46°	121.3	129.5	137.0	137.8	145.3	144.2	142.4	137.4	128.5	121.2	117.4
46.5°	112.4	119.7	126.7	127.1	134.5	133.2	132.1	127.3	119.5	113.2	109.1
47°	104.2	111.0	116.9	117.0	124.6	122.8	121.8	117.7	111.6	105.2	100.8
47.5°	96.1	102.1	107.2	107.2	115.5	113.8	112.9	109.3	103.7	97.2	92.5
48°	88.7	94.0	98.2	98.0	106.4	104.8	103.9	100.9	95.7	89.2	84.2
48.5°	81.4	85.9	89.4	89.4	97.3	95.8	95.0	92.4	87.8	81.3	77.4
49°	74.8	78.6	81.0	81.3	88.2	86.8	86.1	84.0	79.9	74.6	71.2
49.5°	68.4	71.6	73.0	73.7	79.2	77.9	77.2	75.6	73.1	68.2	65.6
50°	62.2	64.9	65.6	66.4	71.4	70.4	69.7	68.6	66.6	62.4	60.2
50.5°	56.3	58.3	58.8	59.5	63.9	63.3	62.7	61.9	60.5	56.8	55.2
51°	51.0	52.5	52.6	53.2	57.2	56.8	56.2	55.6	54.6	51.7	50.5
51.5°	45.8	47.0	46.7	47.2	50.8	50.7	50.2	49.7	49.2	46.8	46.0
52°	41.0	41.8	41.4	41.9	44.9	45.0	44.5	44.3	43.9	42.2	41.8
52.5°	36.9	37.6	37.2	37.6	39.4	39.6	39.3	39.1	38.9	37.8	37.6
53°	32.7	33.4	33.0	33.3	34.5	34.8	34.5	34.3	34.3	33.5	33.6
53.5°	28.6	29.1	28.8	29.0	29.8	30.2	30.1	29.9	30.0	29.6	29.8
54°	24.4	24.9	24.6	24.7	25.8	26.1	26.1	25.8	26.0	25.8	26.2
54.5°	21.1	20.7	20.4	20.4	22.2	22.6	22.6	22.2	22.4	22.4	22.8
55°	18.1	17.8	17.5	17.5	19.2	19.5	19.5	19.2	19.3	19.3	19.8
55.5°	15.4	15.0	14.8	14.7	16.4	16.7	16.7	16.4	16.5	16.6	17.0
56°	12.8	12.3	12.1	12.1	13.7	13.9	13.9	14.6	14.4	14.8	14.3
56.5°	10.3	10.0	9.8	9.8	12.1	12.3	12.3	12.8	12.4	12.9	12.5
57°	8.4	8.1	7.9	8.0	10.5	10.7	10.7	11.0	10.4	11.0	10.8
57.5°	6.9	6.7	6.6	6.7	8.9	9.1	9.1	9.2	8.4	9.2	9.1
58°	5.9	5.7	5.6	5.7	7.3	7.6	7.5	7.5	6.4	7.3	7.4
58.5°	5.0	4.9	4.9	5.0	5.8	6.0	5.9	5.7	5.5	5.5	5.7
59°	4.4	4.3	4.3	4.4	5.1	5.3	5.2	5.0	4.8	4.8	5.0
59.5°	4.1	3.9	3.9	4.0	4.5	4.7	4.6	4.4	4.3	4.2	4.4
60°	3.7	3.6	3.6	3.7	4.1	4.2	4.2	3.9	3.8	3.8	3.9
60.5°	3.3	3.2	3.2	3.3	3.7	3.8	3.8	3.6	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	3.1	3.2
61.5°	2.7	2.6	2.6	2.7	3.1	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	2.0	2.2	2.3	2.2	2.1	2.0	2.0	2.0
64°	1.8	1.7	1.7	1.8	2.0	2.1	2.1	1.9	1.9	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	1.8
65°	1.5	1.5	1.5	1.6	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	1.6	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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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	1.2	1.1	1.1	1.1
68°	1.0	0.9	1.0	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°	0.7	0.6	0.7	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	0.6	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	0.6	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	0.5	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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.1	0.1	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	0.2	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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.2	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	0.2	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	0.3
139.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	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°	0.3	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	0.3	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	0.5	0.5
150°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	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	0.6	0.6	0.6
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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.6	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	0.6	0.5
173°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	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°	0.4	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	0.5
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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2
0.5°	1168.3	1167.5	1167.9	1168.3	1168.2	1168.4
1°	1168.0	1167.2	1167.6	1167.8	1167.7	1167.9
1.5°	1167.5	1166.7	1167.2	1167.1	1166.9	1167.3
2°	1166.9	1166.0	1166.2	1165.8	1165.7	1166.4
2.5°	1165.7	1165.3	1165.3	1164.6	1164.5	1165.4
3°	1164.7	1164.6	1164.3	1162.9	1162.4	1164.3
3.5°	1163.2	1163.4	1162.8	1160.8	1160.1	1162.4
4°	1161.4	1161.8	1161.0	1158.3	1157.5	1160.4
4.5°	1159.1	1160.1	1159.0	1155.7	1154.6	1157.8
5°	1156.6	1157.9	1156.7	1152.6	1151.4	1155.1
5.5°	1154.0	1155.6	1154.1	1149.5	1148.0	1151.9
6°	1151.1	1152.8	1151.4	1146.3	1144.3	1148.6
6.5°	1147.8	1149.8	1148.2	1143.1	1140.9	1144.8
7°	1144.3	1146.0	1144.8	1139.6	1137.0	1140.8
7.5°	1140.5	1142.0	1140.7	1136.1	1133.3	1136.4
8°	1136.2	1137.3	1136.3	1131.8	1129.2	1132.0
8.5°	1131.7	1132.0	1131.2	1127.6	1124.9	1126.8
9°	1126.2	1125.6	1125.4	1122.4	1120.1	1121.4
9.5°	1120.3	1118.6	1118.7	1116.9	1114.7	1115.4
10°	1113.3	1110.3	1111.0	1110.1	1108.9	1109.1
10.5°	1105.3	1101.2	1102.1	1102.9	1102.3	1102.1
11°	1096.4	1090.8	1092.3	1094.3	1094.8	1094.3
11.5°	1085.8	1079.2	1081.1	1084.6	1086.3	1085.8
12°	1074.6	1066.8	1069.2	1073.5	1076.4	1076.3
12.5°	1062.6	1054.5	1056.8	1062.1	1065.7	1066.4
13°	1050.4	1041.5	1043.9	1049.9	1054.9	1056.1
13.5°	1037.8	1028.9	1030.9	1037.4	1043.4	1045.3
14°	1024.9	1015.4	1017.8	1024.6	1031.3	1034.1
14.5°	1011.8	1002.2	1004.6	1011.9	1019.1	1022.9
15°	998.6	988.6	991.1	998.6	1006.7	1011.2
15.5°	985.8	975.6	978.2	986.2	994.0	999.2
16°	973.1	962.7	965.5	973.2	981.3	987.4
16.5°	960.2	950.4	953.0	960.8	969.3	975.6
17°	947.9	937.6	940.2	948.5	956.7	963.5
17.5°	935.7	925.1	928.2	936.0	944.6	951.1
18°	923.5	912.5	915.5	923.6	931.9	938.7
18.5°	911.0	900.0	903.1	911.5	919.6	926.4
19°	899.1	887.7	891.2	899.2	907.0	914.2
19.5°	887.6	875.1	879.1	887.2	894.9	902.1
20°	876.1	863.3	867.4	875.2	882.4	889.7
20.5°	864.5	851.0	855.3	863.6	870.3	877.5
21°	853.0	839.3	843.4	851.3	858.0	865.2
21.5°	841.5	827.1	831.6	839.2	845.6	853.0
22°	829.6	815.1	819.7	827.0	833.4	840.2

TEST NUMBER: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	817.4	802.7	807.1	814.7	820.4	827.3
23°	804.0	789.5	793.6	801.5	806.7	813.3
23.5°	789.6	775.2	779.6	787.4	792.9	799.4
24°	774.9	759.7	764.6	772.4	778.0	784.7
24.5°	759.6	742.8	749.0	756.3	762.3	769.7
25°	743.7	726.9	732.8	739.7	745.8	754.2
25.5°	727.0	710.5	716.3	722.4	729.4	738.9
26°	710.3	694.4	699.5	704.6	712.4	723.3
26.5°	692.9	677.5	682.5	686.7	695.0	708.2
27°	675.0	661.6	665.3	668.5	676.8	691.9
27.5°	656.9	645.2	647.5	650.3	659.1	675.9
28°	638.4	628.4	629.8	632.5	642.2	659.2
28.5°	620.1	611.5	612.3	614.7	625.3	642.6
29°	602.4	594.3	594.9	597.4	608.8	625.0
29.5°	584.9	576.5	577.4	580.4	592.5	607.9
30°	567.5	558.5	559.3	563.6	576.5	589.6
30.5°	550.0	539.9	541.4	546.8	559.9	572.0
31°	533.1	522.1	523.6	529.9	543.5	554.4
31.5°	516.0	503.8	506.0	513.0	526.8	537.0
32°	499.3	486.1	488.7	496.1	509.5	519.4
32.5°	482.7	468.7	471.5	479.1	492.3	502.4
33°	466.0	451.6	454.9	462.2	474.9	485.3
33.5°	449.1	434.1	438.6	444.8	457.2	468.2
34°	432.5	414.8	423.2	428.3	439.6	451.3
34.5°	416.0	399.4	407.2	412.6	422.6	434.1
35°	400.1	383.9	391.2	396.9	406.6	414.1
35.5°	384.0	368.5	375.2	381.2	390.6	398.2
36°	368.7	353.1	359.2	365.4	374.5	382.4
36.5°	353.2	338.1	343.2	349.7	358.5	366.5
37°	338.0	323.3	327.9	335.0	342.5	350.6
37.5°	323.0	309.0	313.0	320.3	327.5	334.2
38°	308.4	295.3	298.2	306.2	312.8	318.1
38.5°	294.3	281.8	283.8	291.8	297.9	302.5
39°	280.4	268.7	270.8	277.9	283.6	287.6
39.5°	266.7	255.4	257.5	263.8	269.2	272.7
40°	253.1	242.5	244.6	250.2	254.8	258.3
40.5°	240.2	230.3	232.1	236.7	240.5	244.7
41°	227.5	218.4	220.1	223.5	227.0	231.3
41.5°	215.3	206.9	208.4	210.9	213.5	218.2
42°	203.3	195.9	196.9	198.7	200.8	205.9
42.5°	191.5	185.2	185.9	186.3	188.3	194.0
43°	180.4	175.0	175.0	175.2	176.7	182.4
43.5°	169.6	164.9	164.7	163.7	165.2	171.0
44°	159.3	155.2	154.7	152.8	154.3	160.4
44.5°	149.3	145.8	145.2	142.2	143.6	149.9

TEST NUMBER: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	139.7	136.8	135.9	132.2	133.3	139.9
45.5°	130.4	128.1	127.1	122.4	123.7	130.2
46°	121.6	119.8	118.7	113.2	114.5	121.3
46.5°	113.3	111.7	110.6	104.5	105.7	112.4
47°	105.7	103.9	102.8	96.5	97.3	104.2
47.5°	98.1	96.5	95.3	89.0	89.7	96.1
48°	90.5	89.3	88.1	82.0	82.6	88.7
48.5°	82.8	82.6	81.4	75.6	76.0	81.4
49°	76.2	76.1	74.9	69.6	69.6	74.8
49.5°	69.8	69.9	68.8	64.2	64.1	68.4
50°	64.0	64.0	62.8	59.0	58.8	62.2
50.5°	58.4	58.3	57.3	54.1	53.8	56.3
51°	53.2	52.9	52.1	49.5	49.0	51.0
51.5°	48.2	47.7	47.2	45.1	44.6	45.8
52°	43.6	42.9	42.4	40.8	40.8	41.0
52.5°	39.0	38.9	38.5	37.0	36.9	36.9
53°	34.8	34.8	34.6	33.2	32.9	32.7
53.5°	30.9	30.7	30.6	29.4	29.0	28.6
54°	27.1	26.7	26.7	25.6	25.1	24.4
54.5°	23.5	22.6	22.7	22.3	21.7	21.1
55°	20.4	19.5	19.7	19.4	18.7	18.1
55.5°	17.6	16.8	17.0	16.7	16.2	15.4
56°	14.9	14.1	14.3	14.0	13.5	12.8
56.5°	13.1	11.6	11.8	11.5	11.0	10.3
57°	11.4	9.5	9.7	9.4	8.9	8.4
57.5°	9.6	7.9	8.1	7.9	7.4	6.9
58°	7.8	6.8	6.9	6.7	6.3	5.9
58.5°	6.1	5.9	6.0	5.8	5.4	5.0
59°	5.3	5.2	5.3	5.1	4.7	4.4
59.5°	4.6	4.6	4.7	4.5	4.2	4.1
60°	4.2	4.2	4.2	4.2	3.9	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	2.5	2.6	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	1.8
64.5°	1.9	2.0	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	1.8	1.7	1.5	1.4
66°	1.5	1.6	1.6	1.5	1.4	1.3
66.5°	1.4	1.5	1.5	1.4	1.3	1.2
67°	1.3	1.4	1.4	1.3	1.2	1.1

TEST NUMBER: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-HI-4000K

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	0.7
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	0.7	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	0.4	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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.2	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°	0.4	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	0.3	0.2	0.2
147.5°	0.4	0.3	0.3	0.3	0.3	0.3
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°	0.6	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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.6	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	0.4
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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590500

CATALOG NUMBER: HCDLS510CSD4TRC-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	2.8	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	2.7	3.5	3.1	3.9	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	3.7	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	2.2	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)