

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: P1590529

Luminaire Tested: HCDLS510CSD4TRMW-HI-3500K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590529
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: HCDLS510CSD4TRMW-HI-3500K
Description: 4" Selectable Round Trim+Matte White (paintable) 1000 Lumens 3500K

Light Source:
Ballast/Driver: -

Summary

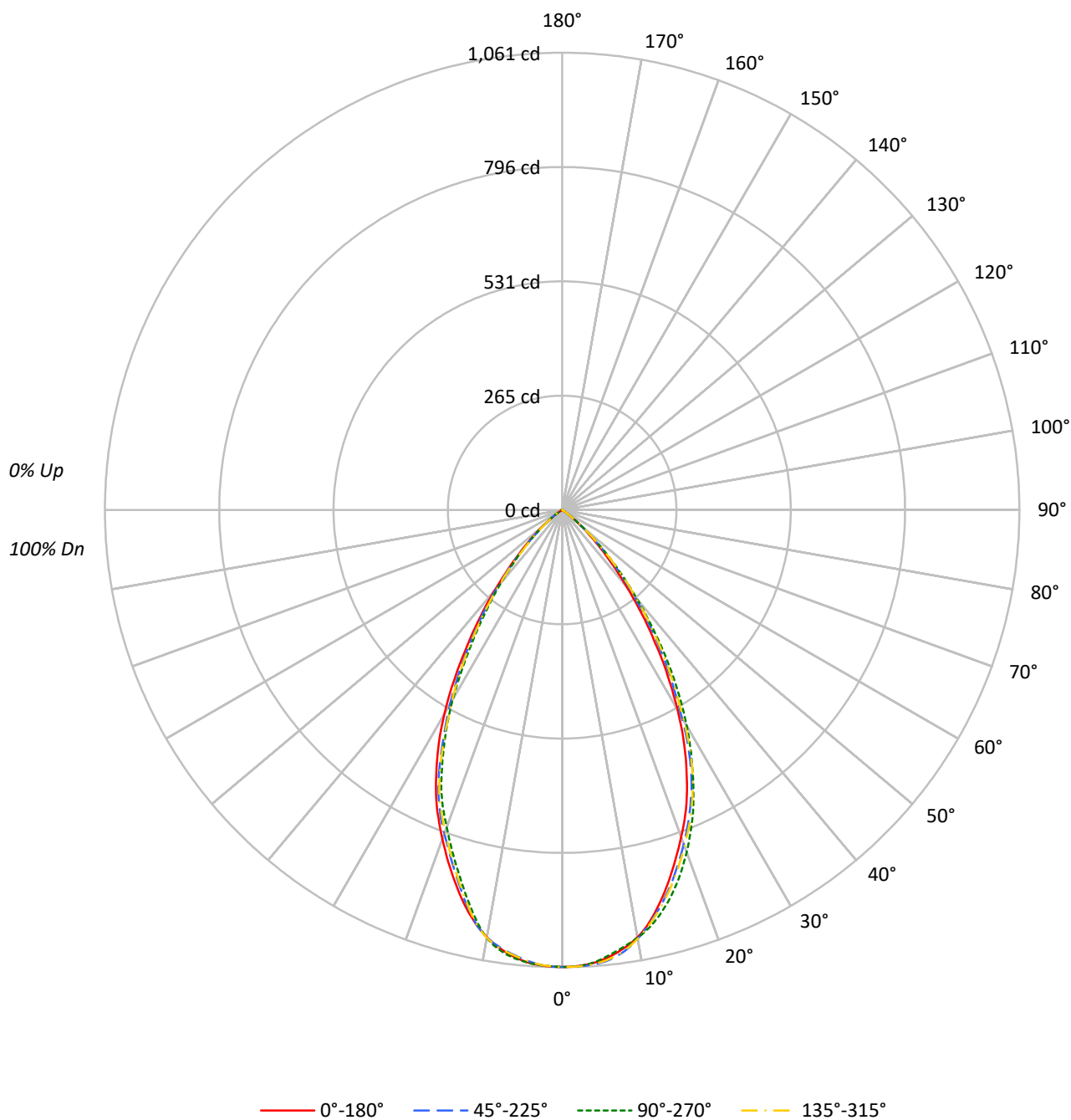
Lumens per Lamp: N/A
Luminaire Lumens: 1036.9 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
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°	130796	130796	130796	130796
5°	129810	129537	129970	130131
10°	126088	126250	126063	126225
15°	117213	120507	117609	114582
20°	106007	110877	106689	102857
25°	93158	98058	94288	89797
30°	76227	82351	77879	72211
35°	56602	63709	57792	52476
40°	37758	43861	39272	35440
45°	22154	26567	23427	21648
50°	10842	12435	11609	11149
55°	3527	3742	3763	3806
60°	814	913	863	937
65°	409	467	409	467
70°	216	289	252	289
75°	143	191	143	191
80°	71	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 26567 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	9.5
10°-20°	256.8	24.8
20°-30°	313.7	30.3
30°-40°	239.0	23.0
40°-50°	106.6	10.3
50°-60°	19.3	1.9
60°-70°	1.7	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°	669.4	64.6
0°-40°	908.4	87.6
0°-60°	1034.2	99.7
0°-90°	1036.3	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1036.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1060	1060	1060	1060	1060	
5°	1048	1046	1050	1051	1048	99
15°	918	944	921	897	918	256
25°	684	720	693	660	684	311
35°	376	423	384	348	376	235
45°	127	152	134	124	127	101
55°	16	17	18	18	16	18
65°	1	2	1	2	1	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	1	1	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1060.4	1060.4	1060.4	1060.4	1060.4	1060.4	1060.4	1060.4	1060.4	1060.4	1060.4
0.5°	1060.5	1060.2	1060.3	1060.5	1060.2	1060.3	1060.7	1060.5	1060.5	1060.2	1060.2
1°	1060.1	1060.1	1060.3	1060.5	1060.2	1060.3	1060.5	1060.5	1060.2	1059.8	1059.8
1.5°	1059.5	1059.7	1060.1	1060.2	1059.8	1060.1	1060.2	1060.1	1059.8	1059.2	1059.2
2°	1058.8	1059.1	1059.8	1059.7	1059.1	1059.4	1059.8	1059.7	1059.1	1058.2	1058.4
2.5°	1057.8	1058.8	1059.3	1058.9	1058.2	1058.5	1059.4	1059.1	1058.1	1057.1	1057.3
3°	1056.8	1058.2	1058.7	1057.8	1056.8	1057.4	1058.5	1058.5	1057.1	1055.5	1055.7
3.5°	1055.1	1057.6	1057.9	1056.4	1055.0	1055.9	1057.5	1057.6	1055.9	1053.6	1053.7
4°	1053.3	1056.6	1057.2	1054.5	1052.4	1053.8	1056.4	1056.6	1054.1	1051.1	1051.4
4.5°	1051.0	1055.3	1056.0	1052.2	1049.5	1051.3	1054.9	1055.3	1052.2	1048.3	1048.8
5°	1048.4	1053.7	1054.1	1049.3	1046.2	1048.3	1052.9	1053.8	1049.7	1045.3	1045.9
5.5°	1045.6	1051.6	1052.1	1046.3	1042.7	1045.1	1050.6	1051.8	1047.0	1041.9	1042.9
6°	1042.6	1049.0	1049.6	1042.9	1038.9	1041.5	1048.0	1049.4	1043.9	1038.5	1039.7
6.5°	1039.1	1046.0	1046.7	1039.4	1035.1	1037.9	1044.9	1046.5	1040.3	1034.9	1036.4
7°	1035.5	1042.4	1043.0	1035.7	1031.4	1034.2	1041.4	1043.0	1036.5	1031.1	1033.1
7.5°	1031.5	1038.3	1038.9	1031.7	1027.7	1030.2	1037.5	1039.0	1032.7	1027.3	1029.4
8°	1027.5	1033.8	1034.3	1027.3	1023.9	1026.1	1033.0	1034.3	1028.1	1023.4	1025.7
8.5°	1022.8	1028.7	1029.2	1022.7	1020.0	1022.1	1028.0	1029.4	1023.3	1019.0	1021.6
9°	1017.9	1023.0	1023.4	1018.0	1016.1	1017.5	1022.4	1023.6	1018.2	1014.5	1017.2
9.5°	1012.4	1016.8	1017.2	1012.9	1012.2	1012.8	1016.5	1017.2	1012.8	1009.6	1012.3
10°	1006.7	1010.2	1010.5	1007.4	1008.0	1007.7	1010.1	1010.5	1006.5	1004.4	1006.8
10.5°	1000.4	1003.0	1003.4	1001.5	1003.5	1002.4	1003.4	1003.2	999.9	998.2	1000.3
11°	993.3	995.5	995.8	995.3	998.4	996.7	996.2	995.8	993.0	991.6	993.1
11.5°	985.6	987.3	988.2	988.7	993.0	990.7	988.8	988.0	985.6	984.4	985.1
12°	976.9	978.8	980.2	981.5	987.4	984.3	981.4	979.9	977.7	975.9	975.8
12.5°	968.0	970.0	971.6	974.5	980.8	977.2	973.6	971.5	968.7	966.8	965.4
13°	958.6	961.2	963.2	966.9	974.3	970.2	965.5	962.6	960.3	957.3	955.2
13.5°	948.8	951.8	954.6	959.2	967.1	963.0	957.2	953.9	950.8	947.2	944.5
14°	938.7	942.2	945.8	950.9	959.5	955.1	948.7	944.6	941.4	936.9	933.3
14.5°	928.4	932.5	936.9	942.7	951.7	947.1	939.8	935.4	931.1	926.2	922.1
15°	917.9	922.7	927.5	934.1	943.7	938.6	931.2	925.9	921.0	915.3	910.4
15.5°	907.0	912.5	918.1	925.1	935.3	929.9	921.8	916.2	910.8	904.4	898.8
16°	896.3	902.1	908.4	915.4	926.3	920.8	912.4	906.0	900.2	893.0	887.3
16.5°	885.5	891.9	898.6	906.1	917.2	911.4	902.4	895.8	889.4	881.8	876.0
17°	874.5	881.5	888.5	896.3	907.8	901.7	892.4	885.4	878.5	870.6	864.7
17.5°	863.3	870.9	878.0	886.3	898.0	891.8	882.3	874.6	867.6	859.4	853.3
18°	852.0	860.0	867.5	875.8	887.7	881.8	871.8	864.0	856.8	848.3	842.2
18.5°	840.9	849.1	857.0	865.3	877.4	871.3	861.3	853.4	845.8	837.1	831.2
19°	829.8	838.1	846.6	854.8	866.5	860.7	851.0	842.7	834.4	826.3	820.1
19.5°	818.8	827.2	836.0	844.1	856.0	850.1	840.5	831.7	823.5	815.5	810.3
20°	807.6	816.1	825.3	833.2	844.7	839.5	830.0	821.2	812.8	804.7	799.7
20.5°	796.5	805.3	814.5	822.4	833.7	828.6	819.2	810.8	801.6	793.9	789.1
21°	785.4	794.0	803.5	811.1	822.4	817.3	808.5	800.0	790.3	783.0	778.5
21.5°	774.3	783.0	792.7	799.8	810.4	805.6	797.8	789.2	779.1	772.2	767.9
22°	762.7	771.5	781.4	787.9	798.4	793.9	787.1	778.4	767.8	761.4	756.2

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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°	751.0	760.3	770.0	776.5	786.4	782.2	776.4	767.6	757.5	749.5	744.7
23°	738.3	748.3	758.6	763.7	774.3	770.5	765.7	755.7	745.3	736.7	732.7
23.5°	725.6	736.4	746.9	751.7	762.3	758.8	753.6	743.9	732.6	723.9	719.8
24°	712.2	723.9	734.6	738.3	748.2	745.6	741.7	731.8	719.5	710.9	706.0
24.5°	698.7	711.0	722.7	725.5	734.7	732.5	729.5	719.3	706.2	696.9	691.6
25°	684.5	697.7	710.0	711.6	720.5	719.0	716.9	706.5	692.8	682.7	676.6
25.5°	670.7	684.4	697.1	698.5	706.7	705.5	703.9	693.6	679.1	668.2	661.0
26°	656.5	670.5	683.6	684.5	692.8	691.6	690.6	680.2	665.4	653.5	644.6
26.5°	642.8	656.4	669.8	670.4	678.7	677.6	676.7	666.0	651.2	638.5	628.1
27°	628.0	642.1	654.8	656.2	664.6	663.3	662.3	651.7	637.1	623.2	611.9
27.5°	613.5	627.7	639.3	641.8	650.9	649.3	647.5	637.1	623.0	607.5	596.1
28°	598.4	613.1	623.3	627.1	636.8	635.1	631.6	622.1	608.3	592.1	580.5
28.5°	583.2	597.2	606.6	612.0	622.6	620.3	615.7	606.6	593.4	576.4	564.8
29°	567.3	582.1	589.7	596.9	608.3	605.9	599.2	590.6	578.2	561.0	550.0
29.5°	551.8	566.3	572.2	581.7	593.6	590.9	582.4	574.0	562.6	545.8	535.0
30°	535.2	549.8	555.1	565.9	578.2	575.6	564.8	556.9	546.8	530.5	520.0
30.5°	519.2	532.7	538.2	549.5	562.8	559.7	547.6	539.7	530.4	515.1	504.8
31°	503.2	516.1	521.9	533.3	547.3	544.0	530.9	522.5	514.3	500.1	489.3
31.5°	487.4	498.6	505.9	516.9	531.8	527.9	514.6	505.1	497.7	485.1	473.8
32°	471.4	481.7	490.4	500.3	516.2	511.6	499.0	488.5	482.0	470.3	458.0
32.5°	456.0	464.5	475.0	484.0	501.0	495.4	483.3	472.3	465.0	455.1	442.5
33°	440.5	448.6	460.1	467.8	485.8	478.9	468.6	456.4	448.4	440.3	426.6
33.5°	425.0	431.8	445.1	451.6	470.3	462.6	453.6	440.9	431.8	424.9	410.7
34°	409.6	416.5	430.2	436.3	454.5	446.8	438.9	425.7	415.9	409.7	395.7
34.5°	394.0	400.6	414.7	421.1	438.8	431.2	424.0	410.8	399.4	394.2	380.4
35°	375.9	385.3	399.4	406.3	423.1	415.9	409.1	396.3	383.8	378.3	366.2
35.5°	361.5	370.6	384.6	391.9	407.5	400.9	394.0	381.2	368.6	362.9	352.3
36°	347.1	355.9	370.0	378.0	391.5	386.2	379.0	366.2	354.1	347.7	338.7
36.5°	332.7	341.2	355.4	363.7	375.9	371.2	364.1	351.3	338.9	332.8	324.9
37°	318.3	326.5	340.8	349.3	360.3	356.7	349.3	336.6	324.5	318.2	311.9
37.5°	303.3	311.7	326.2	335.0	345.0	342.4	334.6	321.6	310.5	303.6	298.4
38°	288.7	298.4	311.7	320.6	330.0	328.3	321.0	307.3	296.7	289.9	285.2
38.5°	274.6	284.7	298.2	306.4	315.0	314.1	307.1	293.5	283.0	276.4	271.8
39°	261.0	271.7	285.3	292.8	300.5	300.7	294.1	279.9	269.9	263.2	258.9
39.5°	247.5	258.6	272.0	279.0	286.3	286.7	281.1	267.0	256.8	249.8	246.1
40°	234.5	246.1	259.1	265.6	272.4	273.5	268.3	254.6	243.9	236.8	233.5
40.5°	222.1	234.1	246.5	252.4	259.0	259.6	255.4	242.1	231.1	224.2	221.1
41°	210.0	222.0	233.8	239.7	245.6	246.6	242.8	230.2	218.7	211.9	209.2
41.5°	198.1	210.1	221.1	227.2	232.9	233.5	230.3	218.5	206.8	199.9	197.9
42°	186.9	199.1	209.3	215.2	220.4	221.1	217.8	207.3	195.3	188.0	186.9
42.5°	176.1	187.9	197.3	203.2	208.4	208.5	205.4	195.9	184.2	176.8	175.8
43°	165.5	177.0	185.8	191.0	196.6	196.6	193.5	185.1	173.6	166.0	165.0
43.5°	155.2	166.0	174.5	179.3	184.9	184.6	181.8	174.3	163.0	155.6	154.3
44°	145.6	155.6	164.0	167.8	173.5	173.5	170.7	163.9	153.1	145.8	144.4
44.5°	136.1	145.5	153.5	156.6	162.7	162.2	159.7	153.5	143.5	136.3	134.1

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CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	127.0	136.0	143.6	145.8	152.3	151.6	149.2	143.6	134.3	127.1	124.4
45.5°	118.2	126.4	133.9	135.1	141.8	140.9	139.1	134.0	125.4	118.3	115.0
46°	110.1	117.5	124.4	125.1	131.9	130.9	129.3	124.7	116.6	110.0	106.6
46.5°	102.1	108.7	115.0	115.4	122.1	120.9	119.9	115.5	108.5	102.7	99.0
47°	94.5	100.7	106.1	106.2	113.1	111.5	110.6	106.9	101.3	95.5	91.5
47.5°	87.2	92.6	97.3	97.3	104.8	103.3	102.4	99.2	94.1	88.2	84.0
48°	80.5	85.3	89.1	89.0	96.6	95.2	94.3	91.5	86.9	81.0	76.4
48.5°	73.9	77.9	81.1	81.1	88.3	87.0	86.3	83.9	79.7	73.8	70.3
49°	67.9	71.3	73.5	73.8	80.1	78.8	78.2	76.2	72.5	67.7	64.7
49.5°	62.1	65.0	66.3	66.9	71.9	70.7	70.1	68.6	66.3	61.9	59.5
50°	56.5	58.9	59.6	60.3	64.8	63.9	63.3	62.2	60.5	56.6	54.7
50.5°	51.1	52.9	53.4	54.0	58.0	57.4	56.9	56.2	54.9	51.6	50.1
51°	46.3	47.7	47.7	48.3	51.9	51.6	51.0	50.5	49.6	46.9	45.8
51.5°	41.6	42.6	42.4	42.9	46.1	46.0	45.6	45.1	44.7	42.5	41.8
52°	37.2	38.0	37.6	38.0	40.8	40.8	40.4	40.2	39.9	38.3	37.9
52.5°	33.5	34.1	33.7	34.1	35.8	36.0	35.7	35.5	35.4	34.3	34.1
53°	29.7	30.3	29.9	30.2	31.3	31.6	31.3	31.2	31.1	30.4	30.5
53.5°	25.9	26.5	26.1	26.3	27.1	27.4	27.3	27.1	27.3	26.8	27.0
54°	22.2	22.6	22.3	22.4	23.4	23.7	23.7	23.4	23.6	23.5	23.8
54.5°	19.1	18.8	18.5	18.5	20.2	20.5	20.5	20.1	20.4	20.4	20.7
55°	16.4	16.1	15.9	15.9	17.4	17.7	17.7	17.4	17.5	17.5	17.9
55.5°	14.0	13.6	13.4	13.4	14.9	15.2	15.2	14.9	14.9	15.1	15.4
56°	11.6	11.2	11.0	10.9	12.4	12.6	12.6	13.2	13.1	13.4	12.9
56.5°	9.4	9.0	8.9	8.9	11.0	11.1	11.1	11.6	11.3	11.7	11.4
57°	7.6	7.3	7.2	7.3	9.6	9.7	9.7	10.0	9.4	10.0	9.8
57.5°	6.3	6.1	6.0	6.1	8.1	8.3	8.3	8.4	7.6	8.3	8.3
58°	5.3	5.1	5.1	5.2	6.7	6.9	6.8	6.8	5.8	6.7	6.8
58.5°	4.6	4.4	4.4	4.5	5.2	5.4	5.4	5.1	5.0	5.0	5.2
59°	4.0	3.9	3.9	4.0	4.6	4.8	4.7	4.5	4.4	4.3	4.5
59.5°	3.7	3.6	3.5	3.7	4.1	4.3	4.2	4.0	3.9	3.8	4.0
60°	3.3	3.2	3.2	3.3	3.7	3.8	3.8	3.6	3.5	3.4	3.5
60.5°	3.0	2.9	2.9	3.0	3.3	3.5	3.4	3.2	3.1	3.1	3.2
61°	2.7	2.6	2.6	2.7	3.0	3.2	3.1	2.9	2.8	2.8	2.9
61.5°	2.4	2.4	2.4	2.5	2.8	2.9	2.8	2.7	2.6	2.5	2.6
62°	2.2	2.2	2.2	2.3	2.5	2.7	2.6	2.4	2.3	2.3	2.4
62.5°	2.0	2.0	2.0	2.1	2.3	2.4	2.4	2.2	2.1	2.1	2.2
63°	1.9	1.8	1.8	1.9	2.2	2.3	2.2	2.1	2.0	1.9	2.0
63.5°	1.7	1.7	1.7	1.8	2.0	2.1	2.0	1.9	1.8	1.8	1.9
64°	1.6	1.6	1.6	1.6	1.8	1.9	1.9	1.8	1.7	1.7	1.7
64.5°	1.5	1.4	1.5	1.5	1.7	1.8	1.8	1.6	1.6	1.5	1.6
65°	1.4	1.3	1.3	1.4	1.6	1.7	1.6	1.5	1.4	1.4	1.5
65.5°	1.3	1.2	1.3	1.3	1.5	1.6	1.5	1.4	1.3	1.3	1.4
66°	1.2	1.1	1.2	1.2	1.4	1.4	1.4	1.3	1.2	1.2	1.3
66.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.2	1.2	1.1	1.2
67°	1.0	1.0	1.0	1.1	1.2	1.3	1.2	1.1	1.1	1.1	1.1

TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.9	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
68°	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0
68.5°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9
69°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
69.5°	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
70°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
70.5°	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.7
71°	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6
71.5°	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.6
72°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
72.5°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
73°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4
73.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
74°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
74.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4
75°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
75.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.2
77°	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.1	0.1	0.1	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	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
80.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
81°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
81.5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.1	0.0	0.0	0.0	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	0.0
126°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.0	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	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
134.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2

TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
137.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
139.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
141°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
141.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
143.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
144.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
146°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4
146.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4
147°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
147.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
148°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
148.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
149°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
149.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
151°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
151.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152.5°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.5	0.5
153°	0.3	0.3	0.2	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
153.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
154°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
154.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
156°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
156.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5

TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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	0.5	0.5	0.5	0.5
158°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
158.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
159°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
159.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
161°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.6	0.6
161.5°	0.3	0.3	0.3	0.3	0.5	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	0.5	0.6	0.6	0.6	0.6	0.6	0.6
167.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6
168°	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6
168.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.5	0.5
169°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
169.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
170°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
170.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
171°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
171.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
173°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
173.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
174°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
174.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
176°	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5
176.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4
177°	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4
177.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.4	0.4	0.4	0.4	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	0.4	0.4	0.4	0.4	0.4
179.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1060.4	1060.4	1060.4	1060.4	1060.4	1060.4
0.5°	1060.5	1059.7	1060.1	1060.5	1060.4	1060.5
1°	1060.2	1059.4	1059.8	1060.0	1059.9	1060.1
1.5°	1059.7	1059.0	1059.4	1059.3	1059.1	1059.5
2°	1059.1	1058.4	1058.6	1058.2	1058.1	1058.8
2.5°	1058.1	1057.8	1057.8	1057.1	1057.0	1057.8
3°	1057.2	1057.1	1056.8	1055.5	1055.1	1056.8
3.5°	1055.8	1056.0	1055.4	1053.7	1053.0	1055.1
4°	1054.2	1054.6	1053.8	1051.4	1050.7	1053.3
4.5°	1052.1	1053.0	1052.0	1049.0	1048.1	1051.0
5°	1049.8	1051.0	1049.9	1046.2	1045.1	1048.4
5.5°	1047.5	1048.9	1047.6	1043.4	1042.0	1045.6
6°	1044.8	1046.4	1045.1	1040.5	1038.7	1042.6
6.5°	1041.8	1043.7	1042.2	1037.5	1035.6	1039.1
7°	1038.7	1040.2	1039.1	1034.4	1032.1	1035.5
7.5°	1035.2	1036.6	1035.4	1031.2	1028.7	1031.5
8°	1031.3	1032.3	1031.4	1027.3	1025.0	1027.5
8.5°	1027.2	1027.5	1026.7	1023.5	1021.1	1022.8
9°	1022.3	1021.7	1021.5	1018.8	1016.7	1017.9
9.5°	1016.9	1015.4	1015.5	1013.8	1011.8	1012.4
10°	1010.5	1007.8	1008.5	1007.7	1006.5	1006.7
10.5°	1003.3	999.6	1000.4	1001.1	1000.6	1000.4
11°	995.2	990.1	991.5	993.3	993.8	993.3
11.5°	985.6	979.6	981.3	984.5	986.0	985.6
12°	975.4	968.4	970.5	974.4	977.0	976.9
12.5°	964.5	957.2	959.2	964.1	967.3	968.0
13°	953.5	945.4	947.5	953.0	957.6	958.6
13.5°	942.0	933.9	935.8	941.6	947.1	948.8
14°	930.3	921.7	923.9	930.0	936.1	938.7
14.5°	918.4	909.7	911.9	918.5	925.1	928.4
15°	906.4	897.3	899.6	906.5	913.8	917.9
15.5°	894.8	885.5	887.9	895.2	902.2	907.0
16°	883.3	873.9	876.4	883.4	890.7	896.3
16.5°	871.6	862.7	865.0	872.1	879.8	885.5
17°	860.4	851.1	853.4	860.9	868.4	874.5
17.5°	849.3	839.7	842.5	849.6	857.4	863.3
18°	838.2	828.2	831.0	838.3	845.9	852.0
18.5°	826.9	816.9	819.7	827.3	834.7	840.9
19°	816.1	805.8	808.9	816.2	823.3	829.8
19.5°	805.7	794.3	797.9	805.3	812.3	818.8
20°	795.2	783.6	787.4	794.4	801.0	807.6
20.5°	784.7	772.4	776.4	783.8	790.0	796.5
21°	774.3	761.8	765.6	772.7	778.8	785.4
21.5°	763.8	750.7	754.8	761.8	767.5	774.3
22°	753.1	739.9	744.0	750.6	756.5	762.7

TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	741.9	728.6	732.6	739.5	744.7	751.0
23°	729.8	716.6	720.4	727.5	732.3	738.3
23.5°	716.7	703.6	707.6	714.8	719.8	725.6
24°	703.3	689.6	694.0	701.1	706.2	712.2
24.5°	689.5	674.3	679.9	686.5	691.9	698.7
25°	675.1	659.8	665.1	671.4	677.0	684.5
25.5°	659.9	645.0	650.1	655.7	662.0	670.7
26°	644.7	630.3	635.0	639.5	646.6	656.5
26.5°	629.0	615.0	619.5	623.3	630.8	642.8
27°	612.7	600.5	603.9	606.8	614.3	628.0
27.5°	596.3	585.7	587.8	590.3	598.2	613.5
28°	579.5	570.4	571.6	574.1	582.9	598.4
28.5°	562.9	555.0	555.8	558.0	567.6	583.2
29°	546.8	539.4	540.0	542.3	552.6	567.3
29.5°	530.9	523.3	524.1	526.8	537.8	551.8
30°	515.1	507.0	507.7	511.6	523.3	535.2
30.5°	499.3	490.1	491.5	496.3	508.2	519.2
31°	483.9	473.9	475.3	481.0	493.4	503.2
31.5°	468.4	457.3	459.3	465.7	478.1	487.4
32°	453.2	441.2	443.5	450.3	462.4	471.4
32.5°	438.1	425.4	428.0	434.9	446.8	456.0
33°	422.9	409.9	412.9	419.5	431.0	440.5
33.5°	407.6	394.0	398.1	403.7	415.0	425.0
34°	392.6	376.5	384.1	388.8	399.0	409.6
34.5°	377.6	362.5	369.6	374.5	383.6	394.0
35°	363.2	348.5	355.1	360.2	369.1	375.9
35.5°	348.6	334.5	340.5	346.0	354.5	361.5
36°	334.7	320.5	326.0	331.7	340.0	347.1
36.5°	320.6	306.9	311.5	317.4	325.4	332.7
37°	306.8	293.5	297.7	304.0	310.8	318.3
37.5°	293.2	280.5	284.1	290.7	297.3	303.3
38°	280.0	268.0	270.7	278.0	283.9	288.7
38.5°	267.1	255.7	257.6	264.9	270.4	274.6
39°	254.6	243.9	245.8	252.3	257.4	261.0
39.5°	242.1	231.9	233.8	239.4	244.3	247.5
40°	229.7	220.1	222.0	227.1	231.3	234.5
40.5°	218.0	209.0	210.6	214.8	218.3	222.1
41°	206.5	198.2	199.8	202.9	206.1	210.0
41.5°	195.4	187.8	189.1	191.5	193.8	198.1
42°	184.6	177.8	178.7	180.4	182.3	186.9
42.5°	173.9	168.1	168.7	169.1	170.9	176.1
43°	163.7	158.8	158.9	159.1	160.4	165.5
43.5°	153.9	149.7	149.5	148.6	150.0	155.2
44°	144.6	140.9	140.5	138.7	140.0	145.6
44.5°	135.5	132.3	131.8	129.0	130.3	136.1

TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	126.8	124.1	123.3	120.0	121.0	127.0
45.5°	118.4	116.2	115.4	111.1	112.3	118.2
46°	110.4	108.7	107.8	102.8	104.0	110.1
46.5°	102.8	101.4	100.4	94.9	95.9	102.1
47°	95.9	94.3	93.3	87.6	88.4	94.5
47.5°	89.0	87.6	86.5	80.8	81.4	87.2
48°	82.1	81.0	80.0	74.4	75.0	80.5
48.5°	75.2	75.0	73.9	68.6	69.0	73.9
49°	69.1	69.1	68.0	63.2	63.2	67.9
49.5°	63.4	63.4	62.4	58.3	58.2	62.1
50°	58.1	58.1	57.0	53.5	53.4	56.5
50.5°	53.0	52.9	52.0	49.1	48.9	51.1
51°	48.2	48.0	47.3	44.9	44.5	46.3
51.5°	43.8	43.3	42.8	40.9	40.5	41.6
52°	39.5	39.0	38.5	37.0	37.0	37.2
52.5°	35.4	35.3	34.9	33.5	33.5	33.5
53°	31.6	31.6	31.4	30.1	29.9	29.7
53.5°	28.0	27.9	27.8	26.7	26.3	25.9
54°	24.6	24.2	24.2	23.2	22.7	22.2
54.5°	21.4	20.5	20.6	20.3	19.7	19.1
55°	18.5	17.7	17.9	17.6	17.0	16.4
55.5°	16.0	15.3	15.4	15.1	14.7	14.0
56°	13.5	12.8	13.0	12.7	12.3	11.6
56.5°	11.9	10.5	10.7	10.5	10.0	9.4
57°	10.3	8.6	8.8	8.6	8.1	7.6
57.5°	8.7	7.2	7.4	7.1	6.7	6.3
58°	7.1	6.1	6.3	6.1	5.7	5.3
58.5°	5.5	5.3	5.5	5.3	4.9	4.6
59°	4.8	4.7	4.8	4.6	4.3	4.0
59.5°	4.2	4.1	4.3	4.1	3.8	3.7
60°	3.8	3.8	3.8	3.8	3.5	3.3
60.5°	3.4	3.5	3.6	3.5	3.2	3.0
61°	3.1	3.2	3.3	3.2	2.9	2.7
61.5°	2.8	2.9	3.0	2.9	2.6	2.4
62°	2.6	2.6	2.7	2.6	2.4	2.2
62.5°	2.3	2.4	2.5	2.4	2.2	2.0
63°	2.1	2.2	2.3	2.2	2.0	1.9
63.5°	2.0	2.1	2.1	2.0	1.9	1.7
64°	1.8	1.9	2.0	1.9	1.7	1.6
64.5°	1.7	1.8	1.8	1.7	1.6	1.5
65°	1.6	1.6	1.7	1.6	1.5	1.4
65.5°	1.5	1.5	1.6	1.5	1.4	1.3
66°	1.4	1.4	1.5	1.4	1.3	1.2
66.5°	1.3	1.3	1.4	1.3	1.2	1.1
67°	1.2	1.2	1.3	1.2	1.1	1.0

TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	1.1	1.1	1.2	1.1	1.0	0.9
68°	1.0	1.1	1.1	1.0	0.9	0.9
68.5°	0.9	1.0	1.0	1.0	0.9	0.8
69°	0.9	0.9	1.0	0.9	0.8	0.7
69.5°	0.8	0.9	0.9	0.8	0.7	0.7
70°	0.8	0.8	0.8	0.8	0.7	0.6
70.5°	0.7	0.7	0.8	0.7	0.6	0.6
71°	0.7	0.7	0.7	0.7	0.6	0.5
71.5°	0.6	0.6	0.7	0.6	0.6	0.5
72°	0.6	0.6	0.6	0.6	0.5	0.5
72.5°	0.5	0.5	0.6	0.5	0.5	0.4
73°	0.5	0.5	0.5	0.5	0.4	0.4
73.5°	0.4	0.5	0.5	0.5	0.4	0.4
74°	0.4	0.4	0.4	0.4	0.4	0.3
74.5°	0.4	0.4	0.4	0.4	0.3	0.3
75°	0.3	0.4	0.4	0.4	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.2
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°	0.2	0.3	0.3	0.2	0.2	0.2
77.5°	0.2	0.2	0.2	0.2	0.2	0.2
78°	0.2	0.2	0.2	0.2	0.2	0.1
78.5°	0.2	0.2	0.2	0.2	0.1	0.1
79°	0.2	0.2	0.2	0.2	0.1	0.1
79.5°	0.1	0.1	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	0.0	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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.1	0.1	0.1	0.0	0.0
125°	0.0	0.1	0.1	0.1	0.1	0.1
125.5°	0.1	0.1	0.1	0.1	0.1	0.1
126°	0.1	0.1	0.1	0.1	0.1	0.1
126.5°	0.1	0.1	0.1	0.1	0.1	0.1
127°	0.1	0.1	0.1	0.1	0.1	0.1
127.5°	0.1	0.1	0.1	0.1	0.1	0.1
128°	0.1	0.1	0.1	0.1	0.1	0.1
128.5°	0.1	0.1	0.1	0.1	0.1	0.1
129°	0.1	0.1	0.1	0.1	0.1	0.1
129.5°	0.1	0.1	0.1	0.1	0.1	0.1
130°	0.1	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	0.1	0.1	0.1	0.1
131°	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.1	0.1	0.1	0.1
132°	0.1	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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	0.1	0.1	0.1	0.1	0.1
136.5°	0.2	0.1	0.1	0.1	0.1	0.1
137°	0.2	0.2	0.2	0.1	0.1	0.1
137.5°	0.2	0.2	0.2	0.2	0.2	0.1
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°	0.2	0.2	0.2	0.2	0.2	0.2
140°	0.2	0.2	0.2	0.2	0.2	0.2
140.5°	0.3	0.2	0.2	0.2	0.2	0.2
141°	0.3	0.2	0.2	0.2	0.2	0.2
141.5°	0.3	0.2	0.2	0.2	0.2	0.2
142°	0.3	0.2	0.2	0.2	0.2	0.2
142.5°	0.3	0.2	0.2	0.2	0.2	0.2
143°	0.3	0.2	0.2	0.2	0.2	0.2
143.5°	0.3	0.2	0.2	0.2	0.2	0.2
144°	0.3	0.2	0.2	0.2	0.2	0.2
144.5°	0.3	0.2	0.2	0.2	0.2	0.2
145°	0.3	0.2	0.2	0.2	0.2	0.2
145.5°	0.3	0.2	0.2	0.2	0.2	0.2
146°	0.4	0.2	0.2	0.2	0.2	0.2
146.5°	0.4	0.2	0.2	0.2	0.2	0.2
147°	0.4	0.2	0.2	0.2	0.2	0.2
147.5°	0.4	0.2	0.2	0.2	0.2	0.2
148°	0.4	0.2	0.2	0.2	0.2	0.2
148.5°	0.4	0.2	0.2	0.2	0.2	0.2
149°	0.4	0.2	0.2	0.2	0.2	0.2
149.5°	0.4	0.2	0.2	0.2	0.2	0.2
150°	0.4	0.2	0.2	0.2	0.2	0.2
150.5°	0.4	0.2	0.2	0.3	0.3	0.2
151°	0.4	0.3	0.3	0.3	0.3	0.3
151.5°	0.4	0.3	0.3	0.3	0.3	0.3
152°	0.4	0.3	0.3	0.3	0.3	0.3
152.5°	0.5	0.3	0.3	0.3	0.3	0.3
153°	0.5	0.3	0.3	0.3	0.3	0.3
153.5°	0.5	0.3	0.3	0.3	0.3	0.3
154°	0.5	0.3	0.3	0.3	0.3	0.3
154.5°	0.5	0.3	0.3	0.3	0.3	0.3
155°	0.5	0.3	0.3	0.3	0.3	0.3
155.5°	0.5	0.3	0.3	0.3	0.3	0.3
156°	0.5	0.3	0.3	0.3	0.3	0.3
156.5°	0.5	0.3	0.3	0.3	0.3	0.3
157°	0.5	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.5	0.3	0.3	0.3	0.3	0.3
158°	0.5	0.3	0.3	0.3	0.3	0.3
158.5°	0.5	0.3	0.3	0.3	0.3	0.3
159°	0.5	0.3	0.3	0.3	0.3	0.3
159.5°	0.5	0.3	0.3	0.3	0.3	0.3
160°	0.5	0.3	0.3	0.3	0.3	0.3
160.5°	0.5	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°	0.5	0.3	0.3	0.3	0.3	0.3
169°	0.5	0.3	0.3	0.3	0.3	0.3
169.5°	0.5	0.3	0.3	0.3	0.3	0.3
170°	0.5	0.3	0.3	0.3	0.3	0.3
170.5°	0.5	0.3	0.3	0.3	0.3	0.3
171°	0.5	0.3	0.3	0.3	0.3	0.3
171.5°	0.5	0.3	0.3	0.3	0.3	0.3
172°	0.5	0.3	0.3	0.3	0.3	0.3
172.5°	0.5	0.3	0.3	0.3	0.3	0.3
173°	0.5	0.3	0.3	0.3	0.3	0.3
173.5°	0.5	0.3	0.3	0.3	0.3	0.3
174°	0.5	0.3	0.3	0.3	0.3	0.3
174.5°	0.5	0.3	0.3	0.3	0.3	0.3
175°	0.5	0.3	0.3	0.3	0.3	0.3
175.5°	0.5	0.3	0.3	0.3	0.3	0.3
176°	0.5	0.3	0.3	0.3	0.3	0.3
176.5°	0.4	0.3	0.3	0.3	0.3	0.3
177°	0.4	0.3	0.3	0.3	0.3	0.3
177.5°	0.4	0.3	0.3	0.3	0.3	0.3
178°	0.4	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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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: P1590529

CATALOG NUMBER: HCDLS510CSD4TRMW-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	2.4	3.5	2.8	3.8	4.1	3.5	4.5	3.8	4.8	5.1
	3H	2.4	3.3	2.8	3.6	4.0	3.4	4.3	3.8	4.6	5.0
	4H	2.3	3.1	2.7	3.5	3.9	3.3	4.2	3.7	4.5	4.9
	6H	2.2	3.0	2.6	3.3	3.7	3.2	4.0	3.6	4.4	4.8
	8H	2.1	2.9	2.6	3.3	3.7	3.2	3.9	3.6	4.3	4.7
	12H	2.1	2.8	2.5	3.2	3.6	3.1	3.8	3.6	4.2	4.6
4H	2H	2.3	3.1	2.7	3.5	3.9	3.3	4.1	3.7	4.5	4.8
	3H	2.2	2.9	2.6	3.3	3.7	3.2	3.9	3.6	4.3	4.7
	4H	2.1	2.7	2.6	3.2	3.6	3.1	3.7	3.6	4.2	4.6
	6H	2.0	2.6	2.5	3.0	3.5	3.0	3.6	3.5	4.0	4.5
	8H	2.0	2.4	2.4	2.9	3.4	3.0	3.4	3.4	3.9	4.4
	12H	1.9	2.3	2.4	2.8	3.3	2.9	3.3	3.4	3.8	4.3
8H	4H	2.0	2.5	2.4	2.9	3.4	3.0	3.4	3.4	3.9	4.4
	6H	1.9	2.2	2.4	2.8	3.2	2.9	3.2	3.4	3.7	4.2
	8H	1.8	2.1	2.3	2.7	3.2	2.8	3.1	3.3	3.7	4.2
	12H	1.7	2.0	2.3	2.5	3.1	2.7	3.0	3.3	3.5	4.1
12H	4H	1.9	2.3	2.4	2.8	3.3	2.9	3.3	3.4	3.8	4.3
	6H	1.8	2.1	2.3	2.6	3.2	2.8	3.1	3.3	3.6	4.2
	8H	1.7	2.0	2.3	2.5	3.1	2.7	3.0	3.3	3.5	4.1

(END OF REPORT)