

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: P1590528

Luminaire Tested: HCDLS510CSD4TRMW-HI-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590528
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-3000K
Description: 4" Selectable Round Trim+Matte White (paintable) 1000 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

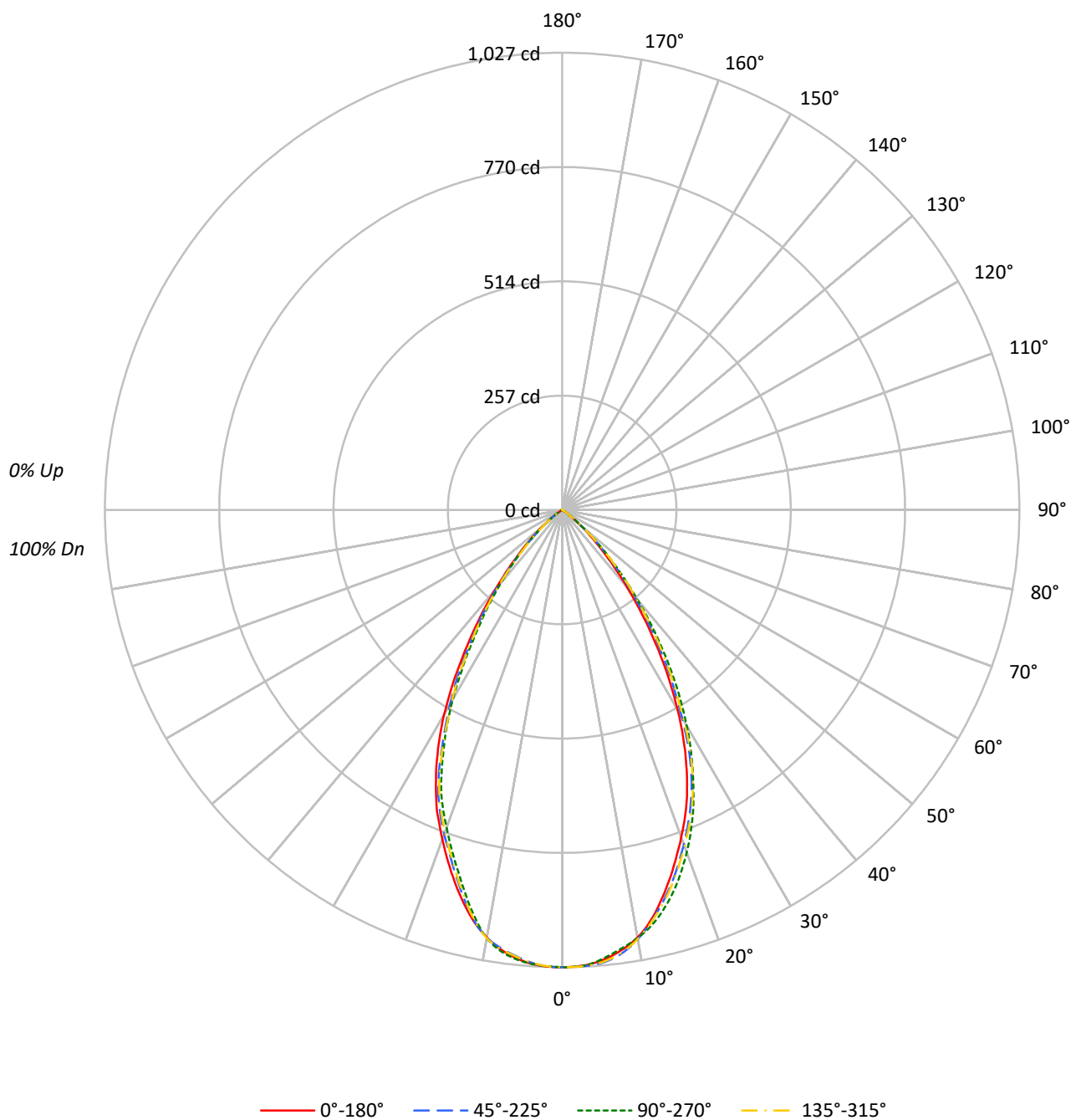
Lumens per Lamp: N/A
Luminaire Lumens: 1004.4 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	113	110	108	106	111	108	106	104	104	102	101		100	99	98		93
2	107	102	98	95	105	101	97	94	97	94	91		94	92	90		86
3	102	95	90	86	100	94	89	85	91	87	84		88	85	82		79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		73
5	91	82	76	72	89	81	76	71	79	74	71		78	73	70		68
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		63
7	82	72	66	61	80	71	65	61	70	65	61		69	64	60		58
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		55
9	73	63	57	53	72	63	57	53	62	56	53		61	56	53		51
10	70	60	54	50	69	59	53	50	58	53	49		58	53	49		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	126688	126688	126688	126688
5°	125736	125476	125885	126058
10°	122130	122293	122105	122268
15°	113535	116728	113918	110994
20°	102686	107398	103342	99628
25°	90246	94982	91321	86979
30°	73834	79759	75429	69946
35°	54825	61707	55985	50835
40°	36567	42492	38032	34329
45°	21456	25729	22694	20967
50°	10496	12032	11245	10784
55°	3419	3634	3656	3699
60°	789	888	814	913
65°	379	438	409	467
70°	216	289	252	289
75°	143	143	143	191
80°	71	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 25729 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	9.5
10°-20°	248.7	24.8
20°-30°	303.9	30.3
30°-40°	231.5	23.0
40°-50°	103.2	10.3
50°-60°	18.7	1.9
60°-70°	1.6	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°	648.4	64.6
0°-40°	879.8	87.6
0°-60°	1001.8	99.7
0°-90°	1003.8	99.9
90°-120°	0.0	0.0
90°-150°	0.3	0.0
90°-180°	1.0	0.1
0°-180°	1004.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1027	1027	1027	1027	1027	
5°	1016	1013	1017	1018	1016	96
15°	889	914	892	869	889	248
25°	663	698	671	639	663	301
35°	364	410	372	338	364	227
45°	123	148	130	120	123	98
55°	16	17	17	17	16	18
65°	1	2	1	2	1	1
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	0	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°	1027.1	1027.1	1027.1	1027.1	1027.1	1027.1	1027.1	1027.1	1027.1	1027.1	1027.1
0.5°	1027.3	1026.9	1027.0	1027.3	1026.9	1027.0	1027.4	1027.3	1027.3	1026.9	1026.9
1°	1026.8	1026.8	1027.0	1027.3	1026.9	1027.0	1027.2	1027.2	1026.9	1026.5	1026.5
1.5°	1026.3	1026.4	1026.8	1026.9	1026.5	1026.8	1026.9	1026.8	1026.5	1026.0	1026.0
2°	1025.5	1025.9	1026.5	1026.4	1025.9	1026.2	1026.5	1026.4	1025.8	1025.0	1025.2
2.5°	1024.6	1025.5	1026.1	1025.6	1025.0	1025.3	1026.2	1025.9	1024.9	1023.9	1024.1
3°	1023.6	1025.0	1025.5	1024.5	1023.6	1024.2	1025.3	1025.3	1023.9	1022.4	1022.6
3.5°	1022.0	1024.4	1024.7	1023.2	1021.8	1022.7	1024.3	1024.4	1022.7	1020.5	1020.7
4°	1020.2	1023.5	1024.0	1021.4	1019.4	1020.8	1023.3	1023.5	1021.0	1018.1	1018.4
4.5°	1018.0	1022.2	1022.8	1019.1	1016.5	1018.3	1021.8	1022.2	1019.1	1015.4	1015.9
5°	1015.5	1020.7	1021.0	1016.3	1013.4	1015.3	1019.9	1020.8	1016.7	1012.5	1013.1
5.5°	1012.7	1018.6	1019.0	1013.5	1009.9	1012.3	1017.6	1018.8	1014.2	1009.2	1010.2
6°	1009.8	1016.1	1016.6	1010.1	1006.3	1008.9	1015.1	1016.4	1011.1	1005.9	1007.1
6.5°	1006.5	1013.2	1013.8	1006.8	1002.6	1005.3	1012.1	1013.6	1007.7	1002.5	1003.9
7°	1003.0	1009.7	1010.3	1003.2	999.0	1001.7	1008.7	1010.3	1004.0	998.8	1000.6
7.5°	999.1	1005.7	1006.3	999.3	995.4	997.9	1004.9	1006.4	1000.3	995.1	997.1
8°	995.2	1001.4	1001.8	995.1	991.7	993.9	1000.6	1001.8	995.9	991.3	993.5
8.5°	990.7	996.4	996.9	990.6	988.0	990.0	995.7	997.0	991.2	987.0	989.6
9°	985.9	990.9	991.3	986.0	984.2	985.6	990.3	991.4	986.2	982.7	985.2
9.5°	980.6	984.9	985.3	981.1	980.4	981.0	984.6	985.3	981.0	977.9	980.5
10°	975.1	978.5	978.8	975.8	976.4	976.0	978.4	978.8	974.9	972.9	975.2
10.5°	969.0	971.5	971.9	970.1	972.0	971.0	971.9	971.7	968.5	966.8	968.9
11°	962.1	964.2	964.6	964.0	967.1	965.4	964.9	964.6	961.9	960.5	962.0
11.5°	954.6	956.3	957.2	957.7	961.9	959.6	957.8	957.0	954.6	953.5	954.2
12°	946.3	948.1	949.4	950.7	956.4	953.4	950.6	949.1	947.0	945.3	945.2
12.5°	937.6	939.6	941.1	943.9	950.0	946.5	943.0	941.0	938.3	936.4	935.1
13°	928.5	931.0	933.0	936.5	943.7	939.8	935.2	932.4	930.1	927.2	925.2
13.5°	919.0	921.9	924.6	929.1	936.8	932.8	927.1	924.0	921.0	917.5	914.9
14°	909.2	912.6	916.1	921.1	929.4	925.2	918.9	915.0	911.8	907.5	904.0
14.5°	899.3	903.2	907.5	913.2	921.8	917.4	910.3	906.0	901.9	897.1	893.2
15°	889.1	893.7	898.4	904.8	914.1	909.1	902.0	896.9	892.1	886.6	881.9
15.5°	878.5	883.9	889.3	896.0	905.9	900.7	892.9	887.4	882.2	876.0	870.6
16°	868.2	873.8	879.9	886.7	897.2	891.9	883.7	877.6	871.9	864.9	859.5
16.5°	857.7	863.9	870.3	877.6	888.4	882.8	874.1	867.7	861.5	854.1	848.5
17°	847.1	853.9	860.6	868.2	879.3	873.4	864.4	857.6	850.9	843.3	837.5
17.5°	836.2	843.6	850.5	858.5	869.9	863.8	854.6	847.1	840.3	832.4	826.6
18°	825.3	833.1	840.3	848.3	859.8	854.1	844.4	836.8	829.9	821.7	815.7
18.5°	814.5	822.4	830.1	838.2	849.8	844.0	834.3	826.6	819.2	810.8	805.1
19°	803.8	811.8	820.0	828.0	839.3	833.7	824.2	816.2	808.2	800.3	794.4
19.5°	793.1	801.2	809.8	817.6	829.1	823.4	814.1	805.6	797.7	789.9	784.9
20°	782.3	790.5	799.4	807.1	818.2	813.1	804.0	795.4	787.3	779.4	774.6
20.5°	771.5	780.0	788.9	796.5	807.6	802.6	793.5	785.4	776.4	768.9	764.3
21°	760.7	769.1	778.3	785.7	796.6	791.6	783.2	774.9	765.5	758.5	754.1
21.5°	750.0	758.4	767.8	774.7	785.0	780.3	772.8	764.5	754.6	748.0	743.8
22°	738.7	747.2	756.8	763.2	773.3	769.0	762.4	754.0	743.7	737.5	732.5

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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°	727.4	736.5	745.9	752.1	761.7	757.6	752.1	743.5	733.8	725.9	721.3
23°	715.1	724.8	734.8	739.7	750.0	746.3	741.7	732.0	721.9	713.6	709.7
23.5°	702.8	713.3	723.5	728.1	738.3	734.9	729.9	720.6	709.6	701.2	697.3
24°	689.9	701.2	711.6	715.2	724.8	722.2	718.5	708.9	696.9	688.5	683.9
24.5°	676.7	688.7	700.0	702.8	711.6	709.6	706.6	696.7	684.1	675.0	669.9
25°	663.1	675.8	687.7	689.3	697.9	696.5	694.4	684.4	671.0	661.3	655.4
25.5°	649.6	662.9	675.2	676.5	684.5	683.3	681.8	671.8	657.8	647.2	640.3
26°	635.9	649.4	662.1	663.0	671.1	669.9	668.9	658.8	644.5	633.0	624.3
26.5°	622.6	635.8	648.8	649.3	657.4	656.3	655.4	645.1	630.7	618.5	608.4
27°	608.3	622.0	634.3	635.6	643.7	642.5	641.5	631.3	617.1	603.7	592.7
27.5°	594.2	608.0	619.3	621.6	630.5	629.0	627.2	617.1	603.5	588.4	577.4
28°	579.6	593.8	603.7	607.4	616.8	615.2	611.7	602.5	589.2	573.5	562.3
28.5°	564.9	578.5	587.5	592.8	603.1	600.9	596.4	587.6	574.8	558.3	547.1
29°	549.5	563.8	571.2	578.2	589.2	586.9	580.4	572.0	560.0	543.4	532.7
29.5°	534.4	548.5	554.2	563.5	575.0	572.3	564.1	556.0	544.9	528.6	518.2
30°	518.4	532.6	537.7	548.2	560.0	557.6	547.0	539.5	529.6	513.8	503.7
30.5°	502.9	516.0	521.3	532.3	545.2	542.1	530.4	522.7	513.7	498.9	488.9
31°	487.4	499.9	505.5	516.5	530.1	526.9	514.2	506.1	498.2	484.4	473.9
31.5°	472.1	483.0	490.0	500.7	515.1	511.3	498.5	489.3	482.1	469.9	458.9
32°	456.6	466.6	475.0	484.6	500.0	495.5	483.3	473.2	466.9	455.5	443.7
32.5°	441.7	449.9	460.1	468.8	485.3	479.8	468.2	457.5	450.4	440.8	428.6
33°	426.7	434.6	445.7	453.1	470.5	463.8	453.9	442.0	434.3	426.5	413.2
33.5°	411.6	418.3	431.1	437.4	455.5	448.1	439.4	427.1	418.2	411.6	397.8
34°	396.7	403.5	416.7	422.6	440.3	432.8	425.1	412.4	402.8	396.8	383.3
34.5°	381.7	388.0	401.7	407.8	425.0	417.7	410.7	397.9	386.9	381.8	368.5
35°	364.1	373.2	386.8	393.5	409.8	402.9	396.3	383.9	371.8	366.5	354.7
35.5°	350.1	359.0	372.5	379.6	394.7	388.3	381.6	369.3	357.0	351.5	341.3
36°	336.2	344.7	358.4	366.2	379.2	374.0	367.1	354.7	342.9	336.8	328.1
36.5°	322.2	330.5	344.3	352.3	364.1	359.6	352.7	340.3	328.3	322.3	314.7
37°	308.3	316.2	330.1	338.4	349.0	345.5	338.3	326.0	314.4	308.2	302.1
37.5°	293.8	302.0	316.0	324.4	334.1	331.7	324.1	311.5	300.8	294.1	289.0
38°	279.7	289.0	301.9	310.5	319.7	318.0	310.9	297.7	287.4	280.8	276.3
38.5°	265.9	275.8	288.8	296.8	305.1	304.2	297.5	284.3	274.1	267.7	263.3
39°	252.8	263.2	276.3	283.6	291.1	291.3	284.9	271.1	261.4	254.9	250.8
39.5°	239.8	250.5	263.4	270.3	277.3	277.7	272.3	258.6	248.7	241.9	238.3
40°	227.1	238.4	250.9	257.2	263.9	264.9	259.8	246.6	236.2	229.4	226.2
40.5°	215.1	226.8	238.7	244.5	250.9	251.4	247.4	234.5	223.8	217.2	214.1
41°	203.4	215.0	226.5	232.1	237.9	238.9	235.2	222.9	211.9	205.3	202.7
41.5°	191.8	203.5	214.1	220.0	225.6	226.2	223.0	211.6	200.3	193.6	191.7
42°	181.1	192.9	202.7	208.4	213.5	214.1	211.0	200.8	189.2	182.1	181.0
42.5°	170.6	182.0	191.2	196.8	201.9	202.0	199.0	189.8	178.4	171.3	170.2
43°	160.4	171.5	180.0	185.0	190.4	190.4	187.4	179.3	168.2	160.8	159.9
43.5°	150.3	160.8	169.0	173.7	179.1	178.8	176.1	168.8	157.8	150.7	149.4
44°	141.0	150.7	158.9	162.6	168.1	168.0	165.3	158.7	148.3	141.2	139.9
44.5°	131.8	141.0	148.7	151.7	157.6	157.1	154.7	148.7	139.0	132.0	129.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	123.0	131.7	139.0	141.2	147.5	146.8	144.5	139.1	130.1	123.1	120.5
45.5°	114.5	122.5	129.7	130.9	137.4	136.5	134.8	129.8	121.5	114.6	111.4
46°	106.7	113.9	120.5	121.2	127.8	126.8	125.2	120.8	112.9	106.5	103.2
46.5°	98.8	105.3	111.4	111.7	118.3	117.1	116.2	111.9	105.1	99.5	95.9
47°	91.6	97.6	102.7	102.9	109.6	108.0	107.1	103.5	98.1	92.5	88.6
47.5°	84.5	89.7	94.3	94.2	101.6	100.1	99.2	96.1	91.1	85.5	81.3
48°	78.0	82.7	86.3	86.2	93.6	92.2	91.4	88.7	84.2	78.5	74.0
48.5°	71.6	75.5	78.6	78.6	85.6	84.3	83.6	81.3	77.2	71.5	68.1
49°	65.7	69.1	71.2	71.5	77.6	76.3	75.7	73.8	70.2	65.6	62.6
49.5°	60.2	62.9	64.2	64.8	69.6	68.5	67.9	66.5	64.3	60.0	57.7
50°	54.7	57.1	57.7	58.4	62.7	61.9	61.3	60.3	58.6	54.9	53.0
50.5°	49.5	51.3	51.7	52.3	56.2	55.6	55.1	54.4	53.2	50.0	48.5
51°	44.8	46.2	46.2	46.8	50.3	50.0	49.4	48.9	48.0	45.4	44.4
51.5°	40.3	41.3	41.0	41.5	44.6	44.5	44.1	43.7	43.3	41.2	40.5
52°	36.0	36.8	36.4	36.8	39.5	39.5	39.2	38.9	38.6	37.1	36.7
52.5°	32.4	33.1	32.7	33.0	34.7	34.8	34.6	34.4	34.2	33.2	33.0
53°	28.8	29.3	29.0	29.3	30.3	30.6	30.4	30.2	30.1	29.5	29.5
53.5°	25.1	25.6	25.3	25.5	26.2	26.5	26.5	26.3	26.4	26.0	26.2
54°	21.5	21.9	21.6	21.7	22.7	23.0	23.0	22.7	22.8	22.7	23.0
54.5°	18.5	18.2	17.9	17.9	19.5	19.9	19.8	19.5	19.7	19.7	20.1
55°	15.9	15.6	15.4	15.4	16.9	17.2	17.1	16.9	17.0	17.0	17.4
55.5°	13.6	13.2	13.0	13.0	14.4	14.7	14.7	14.4	14.5	14.6	14.9
56°	11.2	10.8	10.6	10.6	12.1	12.2	12.2	12.8	12.7	13.0	12.5
56.5°	9.1	8.8	8.6	8.6	10.7	10.8	10.8	11.3	10.9	11.3	11.0
57°	7.4	7.1	6.9	7.0	9.3	9.4	9.4	9.7	9.1	9.7	9.5
57.5°	6.1	5.9	5.8	5.9	7.9	8.0	8.0	8.1	7.4	8.1	8.0
58°	5.2	5.0	4.9	5.1	6.5	6.7	6.6	6.6	5.6	6.5	6.5
58.5°	4.4	4.3	4.3	4.4	5.1	5.3	5.2	5.0	4.8	4.8	5.1
59°	3.9	3.8	3.8	3.9	4.5	4.6	4.6	4.4	4.2	4.2	4.4
59.5°	3.6	3.5	3.4	3.5	4.0	4.1	4.1	3.9	3.7	3.7	3.8
60°	3.2	3.1	3.1	3.2	3.6	3.7	3.7	3.5	3.3	3.3	3.4
60.5°	2.9	2.8	2.8	2.9	3.2	3.4	3.3	3.1	3.0	3.0	3.1
61°	2.6	2.5	2.5	2.6	2.9	3.1	3.0	2.8	2.7	2.7	2.8
61.5°	2.4	2.3	2.3	2.4	2.7	2.8	2.7	2.6	2.5	2.4	2.5
62°	2.2	2.1	2.1	2.2	2.5	2.6	2.5	2.4	2.3	2.2	2.3
62.5°	2.0	1.9	1.9	2.0	2.3	2.4	2.3	2.2	2.1	2.1	2.1
63°	1.8	1.8	1.8	1.9	2.1	2.2	2.1	2.0	1.9	1.9	1.9
63.5°	1.7	1.6	1.6	1.7	1.9	2.0	2.0	1.8	1.8	1.7	1.8
64°	1.5	1.5	1.5	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.7
64.5°	1.4	1.4	1.4	1.5	1.7	1.7	1.7	1.6	1.5	1.5	1.5
65°	1.3	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.4
65.5°	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.3
66°	1.1	1.1	1.1	1.2	1.3	1.4	1.4	1.3	1.2	1.2	1.2
66.5°	1.1	1.0	1.0	1.1	1.2	1.3	1.3	1.2	1.1	1.1	1.1
67°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.1	1.0	1.0	1.1

TEST NUMBER: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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	1.1	1.1	1.0	1.0	1.0	1.0
68°	0.8	0.8	0.8	0.9	1.0	1.1	1.0	0.9	0.9	0.9	0.9
68.5°	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.8	0.8	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	0.7
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	0.7	0.7	0.7	0.6	0.6	0.6
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	0.6	0.6	0.6	0.5	0.5	0.6
72°	0.5	0.4	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	0.4	0.5	0.5	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	0.4	0.4	0.4	0.4
73.5°	0.4	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
74°	0.3	0.3	0.3	0.3	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	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.4	0.3	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	0.2	0.2	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	0.1	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	0.0	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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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°	0.0	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	0.0	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	0.0	0.1
126.5°	0.1	0.1	0.1	0.1	0.0	0.0	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	0.1
134.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2

TEST NUMBER: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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	0.1	0.1	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°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
138.5°	0.2	0.2	0.1	0.1	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	0.2	0.2
141°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
141.5°	0.2	0.2	0.2	0.2	0.2	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	0.3
146.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
147°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
151.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
152.5°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
153°	0.3	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.5	0.4
153.5°	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4	0.5	0.5	0.5
154°	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
154.5°	0.3	0.3	0.3	0.2	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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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	0.5	0.5	0.5
161°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
161.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.6	0.5
163°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
163.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
164°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
164.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
165°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6
165.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.5	0.5
166°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.6	0.5	0.5
166.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
168°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
168.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	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	0.4	0.5	0.5	0.5	0.5	0.5	0.5
175.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.4
176°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
176.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
177°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	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°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
178.5°	0.4	0.3	0.3	0.3	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: P1590528
CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1027.1	1027.1	1027.1	1027.1	1027.1	1027.1
0.5°	1027.2	1026.4	1026.8	1027.2	1027.1	1027.3
1°	1026.9	1026.2	1026.5	1026.7	1026.6	1026.8
1.5°	1026.4	1025.7	1026.2	1026.1	1025.9	1026.3
2°	1025.9	1025.2	1025.4	1025.0	1024.9	1025.5
2.5°	1024.9	1024.5	1024.5	1023.9	1023.8	1024.6
3°	1024.0	1023.9	1023.6	1022.4	1022.0	1023.6
3.5°	1022.7	1022.8	1022.3	1020.6	1019.9	1022.0
4°	1021.1	1021.5	1020.8	1018.4	1017.7	1020.2
4.5°	1019.0	1019.9	1019.0	1016.1	1015.2	1018.0
5°	1016.9	1018.1	1017.0	1013.4	1012.3	1015.5
5.5°	1014.6	1016.0	1014.7	1010.7	1009.3	1012.7
6°	1012.0	1013.5	1012.3	1007.9	1006.1	1009.8
6.5°	1009.1	1010.9	1009.5	1005.0	1003.1	1006.5
7°	1006.1	1007.6	1006.5	1001.9	999.7	1003.0
7.5°	1002.7	1004.1	1002.9	998.8	996.4	999.1
8°	998.9	999.9	999.0	995.1	992.8	995.2
8.5°	995.0	995.2	994.5	991.4	989.0	990.7
9°	990.2	989.6	989.5	986.8	984.8	985.9
9.5°	985.0	983.5	983.6	982.0	980.1	980.6
10°	978.8	976.2	976.8	976.0	974.9	975.1
10.5°	971.8	968.2	969.0	969.7	969.2	969.0
11°	963.9	959.1	960.3	962.1	962.6	962.1
11.5°	954.6	948.9	950.5	953.6	955.1	954.6
12°	944.8	938.0	940.0	943.8	946.3	946.3
12.5°	934.3	927.1	929.1	933.8	937.0	937.6
13°	923.5	915.7	917.8	923.1	927.5	928.5
13.5°	912.4	904.6	906.4	912.1	917.4	919.0
14°	901.1	892.7	894.9	900.8	906.8	909.2
14.5°	889.5	881.1	883.3	889.7	896.0	899.3
15°	878.0	869.2	871.4	878.0	885.1	889.1
15.5°	866.7	857.7	860.0	867.1	873.9	878.5
16°	855.5	846.4	848.9	855.7	862.7	868.2
16.5°	844.2	835.6	837.8	844.8	852.2	857.7
17°	833.4	824.4	826.6	833.9	841.2	847.1
17.5°	822.7	813.3	816.0	822.9	830.5	836.2
18°	811.9	802.2	804.9	812.0	819.3	825.3
18.5°	800.9	791.3	794.0	801.4	808.5	814.5
19°	790.5	780.5	783.5	790.6	797.5	803.8
19.5°	780.4	769.4	772.9	780.1	786.8	793.1
20°	770.2	759.0	762.6	769.5	775.8	782.3
20.5°	760.1	748.2	752.0	759.2	765.2	771.5
21°	750.0	737.9	741.6	748.4	754.4	760.7
21.5°	739.8	727.2	731.1	737.8	743.4	750.0
22°	729.4	716.7	720.6	727.1	732.8	738.7

TEST NUMBER: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	718.6	705.8	709.6	716.3	721.3	727.4
23°	706.9	694.1	697.8	704.7	709.3	715.1
23.5°	694.2	681.5	685.4	692.3	697.2	702.8
24°	681.3	668.0	672.2	679.1	684.0	689.9
24.5°	667.9	653.1	658.6	665.0	670.2	676.7
25°	653.9	639.1	644.2	650.4	655.7	663.1
25.5°	639.2	624.7	629.7	635.1	641.2	649.6
26°	624.5	610.5	615.0	619.5	626.3	635.9
26.5°	609.2	595.7	600.1	603.7	611.0	622.6
27°	593.5	581.7	585.0	587.8	595.0	608.3
27.5°	577.6	567.3	569.3	571.8	579.5	594.2
28°	561.3	552.5	553.7	556.1	564.6	579.6
28.5°	545.2	537.6	538.4	540.5	549.8	564.9
29°	529.6	522.5	523.0	525.3	535.2	549.5
29.5°	514.3	506.9	507.6	510.3	520.9	534.4
30°	499.0	491.1	491.8	495.6	506.8	518.4
30.5°	483.6	474.7	476.0	480.7	492.3	502.9
31°	468.7	459.1	460.3	465.9	477.9	487.4
31.5°	453.7	443.0	444.9	451.1	463.1	472.1
32°	439.0	427.4	429.6	436.1	447.9	456.6
32.5°	424.4	412.1	414.6	421.3	432.8	441.7
33°	409.7	397.0	399.9	406.3	417.5	426.7
33.5°	394.8	381.6	385.6	391.1	402.0	411.6
34°	380.3	364.7	372.1	376.6	386.5	396.7
34.5°	365.8	351.1	358.0	362.7	371.6	381.7
35°	351.8	337.6	343.9	348.9	357.5	364.1
35.5°	337.6	324.0	329.8	335.1	343.4	350.1
36°	324.2	310.4	315.8	321.3	329.3	336.2
36.5°	310.6	297.3	301.7	307.5	315.2	322.2
37°	297.2	284.3	288.3	294.5	301.1	308.3
37.5°	284.0	271.7	275.2	281.6	288.0	293.8
38°	271.2	259.6	262.2	269.2	275.0	279.7
38.5°	258.7	247.7	249.5	256.6	261.9	265.9
39°	246.6	236.2	238.1	244.4	249.3	252.8
39.5°	234.5	224.6	226.4	231.9	236.6	239.8
40°	222.5	213.2	215.0	220.0	224.0	227.1
40.5°	211.2	202.4	204.0	208.1	211.4	215.1
41°	200.0	192.0	193.6	196.5	199.6	203.4
41.5°	189.3	181.9	183.2	185.4	187.7	191.8
42°	178.8	172.2	173.1	174.7	176.6	181.1
42.5°	168.4	162.9	163.4	163.8	165.6	170.6
43°	158.6	153.8	153.9	154.1	155.4	160.4
43.5°	149.1	145.0	144.8	143.9	145.2	150.3
44°	140.0	136.4	136.0	134.4	135.6	141.0
44.5°	131.3	128.2	127.7	125.0	126.2	131.8

TEST NUMBER: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	122.8	120.2	119.5	116.2	117.2	123.0
45.5°	114.7	112.6	111.8	107.6	108.8	114.5
46°	106.9	105.3	104.4	99.5	100.7	106.7
46.5°	99.6	98.2	97.2	91.9	92.9	98.8
47°	92.9	91.4	90.4	84.8	85.6	91.6
47.5°	86.2	84.8	83.7	78.2	78.8	84.5
48°	79.5	78.5	77.5	72.1	72.6	78.0
48.5°	72.8	72.6	71.5	66.4	66.8	71.6
49°	67.0	66.9	65.9	61.2	61.2	65.7
49.5°	61.4	61.5	60.5	56.4	56.4	60.2
50°	56.3	56.2	55.2	51.9	51.7	54.7
50.5°	51.3	51.2	50.4	47.5	47.3	49.5
51°	46.7	46.5	45.8	43.5	43.1	44.8
51.5°	42.4	42.0	41.5	39.6	39.3	40.3
52°	38.3	37.7	37.3	35.8	35.9	36.0
52.5°	34.3	34.2	33.9	32.5	32.4	32.4
53°	30.6	30.6	30.4	29.2	28.9	28.8
53.5°	27.2	27.0	26.9	25.8	25.5	25.1
54°	23.8	23.5	23.5	22.5	22.0	21.5
54.5°	20.7	19.9	20.0	19.6	19.1	18.5
55°	17.9	17.2	17.3	17.1	16.5	15.9
55.5°	15.5	14.8	15.0	14.7	14.2	13.6
56°	13.1	12.4	12.6	12.3	11.9	11.2
56.5°	11.5	10.2	10.4	10.1	9.7	9.1
57°	10.0	8.4	8.5	8.3	7.9	7.4
57.5°	8.4	7.0	7.1	6.9	6.5	6.1
58°	6.9	6.0	6.1	5.9	5.5	5.2
58.5°	5.3	5.2	5.3	5.1	4.8	4.4
59°	4.6	4.5	4.7	4.5	4.2	3.9
59.5°	4.1	4.0	4.2	4.0	3.7	3.6
60°	3.6	3.7	3.7	3.7	3.4	3.2
60.5°	3.3	3.4	3.4	3.4	3.1	2.9
61°	3.0	3.1	3.2	3.1	2.8	2.6
61.5°	2.7	2.8	2.9	2.8	2.5	2.4
62°	2.5	2.6	2.6	2.5	2.3	2.2
62.5°	2.3	2.3	2.4	2.3	2.1	2.0
63°	2.1	2.2	2.2	2.1	1.9	1.8
63.5°	1.9	2.0	2.1	2.0	1.8	1.7
64°	1.8	1.8	1.9	1.8	1.7	1.5
64.5°	1.6	1.7	1.8	1.7	1.5	1.4
65°	1.5	1.6	1.7	1.6	1.4	1.3
65.5°	1.4	1.5	1.5	1.5	1.3	1.2
66°	1.3	1.4	1.4	1.4	1.2	1.1
66.5°	1.2	1.3	1.3	1.3	1.1	1.1
67°	1.1	1.2	1.2	1.2	1.0	1.0

TEST NUMBER: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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	1.0	1.1	1.0	0.9	0.8
68.5°	0.9	1.0	1.0	0.9	0.8	0.8
69°	0.9	0.9	0.9	0.9	0.8	0.7
69.5°	0.8	0.8	0.9	0.8	0.7	0.7
70°	0.7	0.8	0.8	0.8	0.7	0.6
70.5°	0.7	0.7	0.7	0.7	0.6	0.6
71°	0.6	0.7	0.7	0.6	0.6	0.5
71.5°	0.6	0.6	0.6	0.6	0.5	0.5
72°	0.5	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	0.4	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	0.3	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	0.2	0.2
76.5°	0.3	0.3	0.3	0.3	0.2	0.2
77°	0.2	0.2	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°	0.1	0.2	0.2	0.2	0.1	0.1
79.5°	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
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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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	0.0	0.0	0.0
125°	0.0	0.1	0.1	0.1	0.0	0.0
125.5°	0.0	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°	0.1	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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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	0.1	0.1	0.1	0.1	0.1
137.5°	0.2	0.2	0.1	0.1	0.1	0.1
138°	0.2	0.2	0.2	0.2	0.1	0.1
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°	0.2	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°	0.3	0.2	0.2	0.2	0.2	0.2
146.5°	0.3	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	0.2	0.2	0.2
151°	0.4	0.2	0.2	0.2	0.2	0.2
151.5°	0.4	0.2	0.2	0.2	0.2	0.2
152°	0.4	0.2	0.2	0.3	0.3	0.2
152.5°	0.4	0.2	0.3	0.3	0.3	0.3
153°	0.4	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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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°	0.5	0.3	0.3	0.3	0.3	0.3
161.5°	0.5	0.3	0.3	0.3	0.3	0.3
162°	0.5	0.3	0.3	0.3	0.3	0.3
162.5°	0.5	0.3	0.3	0.3	0.3	0.3
163°	0.5	0.3	0.3	0.3	0.3	0.3
163.5°	0.5	0.3	0.3	0.3	0.3	0.3
164°	0.5	0.3	0.3	0.3	0.3	0.3
164.5°	0.5	0.3	0.3	0.3	0.3	0.3
165°	0.5	0.3	0.3	0.3	0.3	0.3
165.5°	0.5	0.3	0.3	0.3	0.3	0.3
166°	0.5	0.3	0.3	0.3	0.3	0.3
166.5°	0.5	0.3	0.3	0.3	0.3	0.3
167°	0.5	0.3	0.3	0.3	0.3	0.3
167.5°	0.5	0.3	0.3	0.3	0.3	0.3
168°	0.5	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°	0.4	0.3	0.3	0.3	0.3	0.3
176°	0.4	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	0.3	0.3	0.3	0.3	0.3
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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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: P1590528

CATALOG NUMBER: HCDLS510CSD4TRMW-HI-3000K

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	2.3	3.4	2.7	3.7	4.0	3.4	4.4	3.7	4.7	5.0
	3H	2.3	3.2	2.7	3.5	3.9	3.3	4.2	3.7	4.5	4.9
	4H	2.2	3.0	2.6	3.4	3.8	3.2	4.1	3.6	4.4	4.8
	6H	2.1	2.9	2.5	3.3	3.7	3.1	3.9	3.5	4.3	4.7
	8H	2.1	2.8	2.5	3.2	3.6	3.1	3.8	3.5	4.2	4.6
	12H	2.0	2.7	2.4	3.1	3.5	3.0	3.7	3.4	4.1	4.5
4H	2H	2.2	3.0	2.6	3.4	3.8	3.2	4.0	3.6	4.4	4.7
	3H	2.1	2.8	2.5	3.2	3.6	3.1	3.8	3.5	4.2	4.6
	4H	2.0	2.6	2.5	3.1	3.5	3.0	3.6	3.5	4.1	4.5
	6H	1.9	2.5	2.4	2.9	3.4	2.9	3.4	3.4	3.9	4.4
	8H	1.9	2.4	2.4	2.8	3.3	2.9	3.3	3.3	3.8	4.3
	12H	1.8	2.2	2.3	2.7	3.2	2.8	3.2	3.3	3.7	4.2
8H	4H	1.9	2.4	2.4	2.8	3.3	2.9	3.3	3.3	3.8	4.3
	6H	1.8	2.2	2.3	2.7	3.1	2.8	3.1	3.3	3.6	4.1
	8H	1.7	2.0	2.2	2.6	3.1	2.7	3.0	3.2	3.5	4.0
	12H	1.6	1.9	2.2	2.4	3.0	2.6	2.9	3.1	3.4	4.0
12H	4H	1.8	2.2	2.3	2.7	3.2	2.8	3.2	3.3	3.7	4.2
	6H	1.7	2.0	2.2	2.5	3.1	2.7	3.0	3.2	3.5	4.1
	8H	1.6	1.9	2.2	2.4	3.0	2.6	2.9	3.1	3.4	4.0

(END OF REPORT)