

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: P1590533

Luminaire Tested: HCDLS510CSD4TRMW-LO-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590533
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-LO-3000K
Description: 4" Selectable Round Trim+Matte White (paintable) 500 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

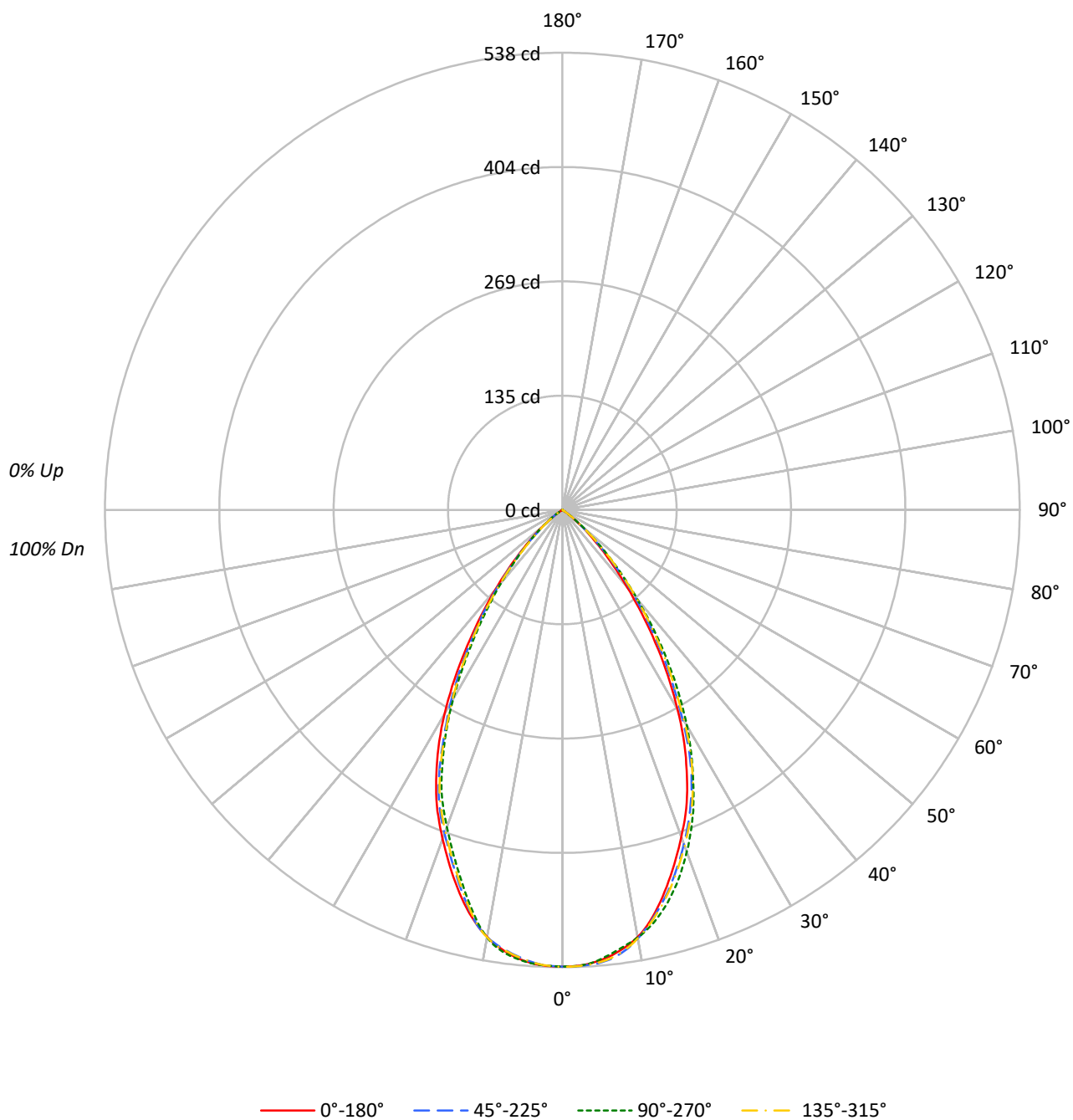
Lumens per Lamp: N/A
Luminaire Lumens: 525.4 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
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°	66274	66274	66274	66274
5°	65784	65635	65858	65945
10°	63889	63977	63877	63964
15°	59392	61065	59596	58064
20°	53712	56180	54067	52124
25°	47212	49689	47770	45497
30°	38626	41731	39467	36590
35°	28685	32284	29287	26592
40°	19129	22220	19902	17953
45°	11216	13467	11879	10972
50°	5488	6294	5872	5642
55°	1785	1892	1914	1935
60°	419	469	444	469
65°	204	233	204	233
70°	108	144	144	144
75°	48	95	95	95
80°	0	71	0	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	9.5
10°-20°	130.1	24.8
20°-30°	159.0	30.3
30°-40°	121.1	23.0
40°-50°	54.0	10.3
50°-60°	9.8	1.9
60°-70°	0.8	0.2
70°-80°	0.2	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°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	339.2	64.6
0°-40°	460.3	87.6
0°-60°	524.1	99.7
0°-90°	525.1	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	525.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	537	537	537	537	537	
5°	531	530	532	533	531	50
15°	465	478	467	455	465	130
25°	347	365	351	334	347	158
35°	190	214	194	177	190	119
45°	64	77	68	63	64	51
55°	8	9	9	9	8	9
65°	1	1	1	1	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	0	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°	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3
0.5°	537.4	537.2	537.3	537.4	537.2	537.3	537.5	537.4	537.4	537.2	537.2
1°	537.2	537.2	537.3	537.4	537.2	537.3	537.4	537.4	537.2	537.0	537.0
1.5°	536.9	537.0	537.2	537.2	537.0	537.2	537.2	537.2	537.0	536.7	536.7
2°	536.5	536.7	537.0	537.0	536.7	536.8	537.0	537.0	536.7	536.2	536.3
2.5°	536.0	536.5	536.8	536.6	536.2	536.4	536.8	536.7	536.2	535.7	535.8
3°	535.5	536.2	536.5	536.0	535.5	535.8	536.4	536.4	535.7	534.9	535.0
3.5°	534.7	535.9	536.1	535.3	534.6	535.0	535.8	535.9	535.0	533.9	534.0
4°	533.7	535.4	535.7	534.3	533.3	534.0	535.3	535.4	534.2	532.6	532.8
4.5°	532.5	534.8	535.1	533.2	531.8	532.7	534.5	534.8	533.2	531.2	531.5
5°	531.3	534.0	534.2	531.7	530.1	531.2	533.5	534.0	531.9	529.7	530.0
5.5°	529.8	532.9	533.1	530.2	528.3	529.6	532.4	533.0	530.6	528.0	528.5
6°	528.3	531.6	531.8	528.4	526.5	527.8	531.0	531.7	529.0	526.2	526.8
6.5°	526.6	530.0	530.4	526.7	524.5	525.9	529.5	530.3	527.2	524.4	525.2
7°	524.7	528.2	528.5	524.8	522.6	524.1	527.7	528.5	525.2	522.5	523.5
7.5°	522.7	526.1	526.5	522.8	520.7	522.0	525.7	526.5	523.3	520.6	521.6
8°	520.7	523.9	524.1	520.6	518.8	519.9	523.4	524.1	521.0	518.6	519.8
8.5°	518.3	521.3	521.5	518.2	516.9	517.9	520.9	521.6	518.5	516.4	517.7
9°	515.8	518.4	518.6	515.8	514.9	515.6	518.1	518.7	515.9	514.1	515.4
9.5°	513.0	515.2	515.5	513.2	512.9	513.2	515.1	515.5	513.2	511.6	513.0
10°	510.1	511.9	512.1	510.5	510.8	510.6	511.8	512.1	510.0	509.0	510.2
10.5°	506.9	508.2	508.4	507.5	508.5	508.0	508.4	508.3	506.7	505.8	506.9
11°	503.3	504.4	504.6	504.3	505.9	505.0	504.8	504.6	503.2	502.5	503.2
11.5°	499.4	500.3	500.7	501.0	503.2	502.0	501.1	500.6	499.4	498.8	499.2
12°	495.0	496.0	496.7	497.3	500.3	498.8	497.3	496.5	495.4	494.5	494.5
12.5°	490.5	491.5	492.3	493.8	497.0	495.2	493.3	492.3	490.9	489.9	489.2
13°	485.7	487.1	488.1	489.9	493.7	491.6	489.2	487.8	486.6	485.1	484.0
13.5°	480.8	482.3	483.7	486.1	490.1	488.0	485.0	483.4	481.8	480.0	478.6
14°	475.6	477.4	479.3	481.9	486.2	484.0	480.7	478.7	477.0	474.7	472.9
14.5°	470.5	472.5	474.7	477.7	482.2	479.9	476.2	474.0	471.8	469.3	467.3
15°	465.1	467.5	470.0	473.3	478.2	475.6	471.9	469.2	466.7	463.8	461.3
15.5°	459.6	462.4	465.2	468.8	473.9	471.2	467.1	464.3	461.5	458.3	455.4
16°	454.2	457.1	460.3	463.9	469.4	466.6	462.3	459.1	456.1	452.5	449.6
16.5°	448.7	452.0	455.3	459.1	464.8	461.8	457.3	453.9	450.7	446.8	443.9
17°	443.2	446.7	450.2	454.2	460.0	456.9	452.2	448.7	445.2	441.1	438.1
17.5°	437.5	441.3	444.9	449.1	455.1	451.9	447.1	443.2	439.6	435.5	432.4
18°	431.8	435.8	439.6	443.8	449.8	446.8	441.8	437.8	434.1	429.9	426.7
18.5°	426.1	430.2	434.3	438.5	444.6	441.5	436.5	432.5	428.6	424.2	421.2
19°	420.5	424.7	429.0	433.1	439.1	436.1	431.2	427.0	422.8	418.7	415.6
19.5°	414.9	419.2	423.6	427.7	433.7	430.7	425.9	421.4	417.3	413.2	410.6
20°	409.2	413.5	418.2	422.2	428.0	425.4	420.6	416.1	411.9	407.7	405.2
20.5°	403.6	408.1	412.7	416.7	422.5	419.9	415.1	410.9	406.2	402.3	399.9
21°	398.0	402.4	407.2	411.0	416.8	414.1	409.7	405.4	400.5	396.8	394.5
21.5°	392.4	396.8	401.7	405.3	410.7	408.2	404.3	399.9	394.8	391.3	389.1
22°	386.5	390.9	395.9	399.2	404.6	402.3	398.9	394.5	389.1	385.8	383.2

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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°	380.5	385.3	390.2	393.5	398.5	396.3	393.4	389.0	383.9	379.8	377.4
23°	374.1	379.2	384.4	387.0	392.4	390.4	388.0	382.9	377.7	373.3	371.3
23.5°	367.7	373.1	378.5	380.9	386.3	384.5	381.9	377.0	371.2	366.8	364.8
24°	360.9	366.8	372.2	374.1	379.2	377.8	375.9	370.8	364.6	360.2	357.8
24.5°	354.0	360.3	366.2	367.7	372.3	371.2	369.7	364.5	357.9	353.1	350.4
25°	346.9	353.5	359.8	360.6	365.1	364.4	363.3	358.0	351.0	346.0	342.9
25.5°	339.8	346.8	353.2	353.9	358.1	357.5	356.7	351.5	344.1	338.6	334.9
26°	332.7	339.7	346.4	346.8	351.1	350.5	350.0	344.7	337.2	331.2	326.6
26.5°	325.7	332.6	339.4	339.7	343.9	343.4	342.9	337.5	330.0	323.5	318.3
27°	318.2	325.4	331.8	332.5	336.8	336.1	335.6	330.2	322.8	315.8	310.0
27.5°	310.9	318.1	324.0	325.2	329.8	329.0	328.1	322.9	315.7	307.8	302.1
28°	303.2	310.7	315.8	317.8	322.7	321.8	320.0	315.2	308.3	300.0	294.2
28.5°	295.5	302.6	307.4	310.1	315.5	314.3	312.0	307.4	300.7	292.1	286.2
29°	287.5	295.0	298.8	302.5	308.2	307.0	303.6	299.3	293.0	284.3	278.7
29.5°	279.6	287.0	289.9	294.8	300.8	299.4	295.1	290.9	285.1	276.6	271.1
30°	271.2	278.6	281.3	286.8	293.0	291.7	286.2	282.2	277.1	268.8	263.5
30.5°	263.1	269.9	272.7	278.5	285.2	283.6	277.5	273.5	268.7	261.0	255.8
31°	255.0	261.5	264.4	270.2	277.3	275.6	269.0	264.7	260.6	253.4	247.9
31.5°	247.0	252.7	256.3	261.9	269.5	267.5	260.8	256.0	252.2	245.8	240.1
32°	238.9	244.1	248.5	253.5	261.5	259.2	252.8	247.6	244.3	238.3	232.1
32.5°	231.1	235.4	240.7	245.3	253.9	251.0	244.9	239.3	235.6	230.6	224.2
33°	223.2	227.3	233.2	237.1	246.1	242.7	237.5	231.3	227.2	223.1	216.2
33.5°	215.3	218.8	225.5	228.8	238.3	234.4	229.9	223.4	218.8	215.3	208.1
34°	207.6	211.1	218.0	221.1	230.3	226.4	222.4	215.7	210.7	207.6	200.5
34.5°	199.7	203.0	210.1	213.4	222.4	218.5	214.9	208.2	202.4	199.7	192.8
35°	190.5	195.2	202.4	205.9	214.4	210.8	207.3	200.8	194.5	191.7	185.6
35.5°	183.2	187.8	194.9	198.6	206.5	203.1	199.6	193.2	186.8	183.9	178.5
36°	175.9	180.3	187.5	191.6	198.4	195.7	192.1	185.6	179.4	176.2	171.6
36.5°	168.6	172.9	180.1	184.3	190.5	188.1	184.5	178.0	171.7	168.6	164.7
37°	161.3	165.4	172.7	177.0	182.6	180.8	177.0	170.5	164.5	161.2	158.0
37.5°	153.7	158.0	165.3	169.7	174.8	173.5	169.6	163.0	157.4	153.9	151.2
38°	146.3	151.2	157.9	162.5	167.2	166.4	162.6	155.7	150.4	146.9	144.5
38.5°	139.1	144.3	151.1	155.3	159.6	159.1	155.6	148.7	143.4	140.0	137.7
39°	132.3	137.7	144.6	148.3	152.3	152.4	149.0	141.8	136.7	133.4	131.2
39.5°	125.4	131.1	137.8	141.4	145.1	145.3	142.4	135.3	130.1	126.6	124.7
40°	118.8	124.7	131.3	134.6	138.0	138.6	135.9	129.0	123.6	120.0	118.3
40.5°	112.5	118.6	124.9	127.9	131.2	131.5	129.4	122.7	117.1	113.6	112.0
41°	106.4	112.5	118.5	121.4	124.5	125.0	123.0	116.6	110.8	107.4	106.0
41.5°	100.4	106.5	112.0	115.1	118.0	118.3	116.7	110.7	104.8	101.3	100.3
42°	94.7	100.9	106.0	109.0	111.7	112.0	110.4	105.0	99.0	95.3	94.7
42.5°	89.2	95.2	100.0	103.0	105.6	105.7	104.1	99.3	93.4	89.6	89.1
43°	83.9	89.7	94.2	96.8	99.6	99.6	98.0	93.8	88.0	84.1	83.6
43.5°	78.6	84.1	88.4	90.9	93.7	93.5	92.1	88.3	82.6	78.9	78.2
44°	73.8	78.9	83.1	85.0	87.9	87.9	86.5	83.0	77.6	73.9	73.2
44.5°	69.0	73.7	77.8	79.4	82.4	82.2	80.9	77.8	72.7	69.1	67.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	64.3	68.9	72.7	73.9	77.2	76.8	75.6	72.8	68.1	64.4	63.0
45.5°	59.9	64.1	67.9	68.5	71.9	71.4	70.5	67.9	63.5	60.0	58.3
46°	55.8	59.6	63.0	63.4	66.8	66.3	65.5	63.2	59.1	55.7	54.0
46.5°	51.7	55.1	58.3	58.5	61.9	61.3	60.8	58.5	55.0	52.1	50.2
47°	47.9	51.0	53.8	53.8	57.3	56.5	56.0	54.2	51.3	48.4	46.4
47.5°	44.2	46.9	49.3	49.3	53.1	52.4	51.9	50.3	47.7	44.7	42.5
48°	40.8	43.2	45.1	45.1	48.9	48.2	47.8	46.4	44.0	41.0	38.7
48.5°	37.5	39.5	41.1	41.1	44.8	44.1	43.7	42.5	40.4	37.4	35.6
49°	34.4	36.2	37.3	37.4	40.6	39.9	39.6	38.6	36.7	34.3	32.8
49.5°	31.5	32.9	33.6	33.9	36.4	35.8	35.5	34.8	33.6	31.4	30.2
50°	28.6	29.9	30.2	30.5	32.8	32.4	32.1	31.5	30.6	28.7	27.7
50.5°	25.9	26.8	27.0	27.4	29.4	29.1	28.8	28.5	27.8	26.1	25.4
51°	23.5	24.2	24.2	24.5	26.3	26.1	25.8	25.6	25.1	23.8	23.2
51.5°	21.1	21.6	21.5	21.7	23.4	23.3	23.1	22.9	22.6	21.5	21.2
52°	18.9	19.2	19.0	19.3	20.7	20.7	20.5	20.4	20.2	19.4	19.2
52.5°	17.0	17.3	17.1	17.3	18.1	18.2	18.1	18.0	17.9	17.4	17.3
53°	15.0	15.3	15.2	15.3	15.8	16.0	15.9	15.8	15.8	15.4	15.4
53.5°	13.1	13.4	13.2	13.3	13.7	13.9	13.8	13.7	13.8	13.6	13.7
54°	11.2	11.5	11.3	11.3	11.9	12.0	12.0	11.9	12.0	11.9	12.0
54.5°	9.7	9.5	9.4	9.4	10.2	10.4	10.4	10.2	10.3	10.3	10.5
55°	8.3	8.2	8.0	8.1	8.8	9.0	9.0	8.8	8.9	8.9	9.1
55.5°	7.1	6.9	6.8	6.8	7.6	7.7	7.7	7.5	7.6	7.6	7.8
56°	5.9	5.7	5.6	5.5	6.3	6.4	6.4	6.7	6.6	6.8	6.6
56.5°	4.8	4.6	4.5	4.5	5.6	5.6	5.6	5.9	5.7	5.9	5.8
57°	3.9	3.7	3.6	3.7	4.8	4.9	4.9	5.1	4.8	5.1	5.0
57.5°	3.2	3.1	3.0	3.1	4.1	4.2	4.2	4.2	3.9	4.2	4.2
58°	2.7	2.6	2.6	2.6	3.4	3.5	3.5	3.4	2.9	3.4	3.4
58.5°	2.3	2.3	2.2	2.3	2.6	2.8	2.7	2.6	2.5	2.5	2.6
59°	2.0	2.0	2.0	2.0	2.3	2.4	2.4	2.3	2.2	2.2	2.3
59.5°	1.9	1.8	1.8	1.9	2.1	2.2	2.1	2.0	2.0	1.9	2.0
60°	1.7	1.6	1.6	1.7	1.9	2.0	1.9	1.8	1.8	1.7	1.8
60.5°	1.5	1.5	1.5	1.5	1.7	1.8	1.7	1.6	1.6	1.6	1.6
61°	1.4	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.5
61.5°	1.2	1.2	1.2	1.3	1.4	1.5	1.4	1.4	1.3	1.3	1.3
62°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.2	1.2	1.2	1.2
62.5°	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1
63°	0.9	0.9	0.9	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0
63.5°	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.0	0.9	0.9	0.9
64°	0.8	0.8	0.8	0.8	0.9	1.0	1.0	0.9	0.9	0.8	0.9
64.5°	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
65°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7
65.5°	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
66°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6
66.5°	0.6	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6
67°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.6

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
68°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
68.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4
69°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
69.5°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.4
70.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
73°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
76°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1
76.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
78.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
79°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
79.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1
80.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-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: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
130.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
131°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
131.5°	0.1	0.1	0.0	0.0	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	0.1	0.1

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-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	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
138°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
138.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
139°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
139.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
141°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
141.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
142°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
142.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
143°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
143.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
144°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
144.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
145.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
146.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
147.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
148.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
149°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
149.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
150°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
150.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
151°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
151.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
152°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
152.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
153°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
153.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
154°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
154.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3
156°	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3
156.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3
173°	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2
173.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2
174°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
174.5°	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175.5°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
176.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
177.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
178.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
179°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
179.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	537.3	537.3	537.3	537.3	537.3	537.3
0.5°	537.4	537.0	537.2	537.4	537.3	537.4
1°	537.2	536.8	537.0	537.1	537.1	537.2
1.5°	537.0	536.6	536.8	536.8	536.7	536.9
2°	536.7	536.3	536.4	536.2	536.2	536.5
2.5°	536.2	536.0	536.0	535.7	535.6	536.0
3°	535.7	535.7	535.5	534.9	534.7	535.5
3.5°	535.0	535.1	534.8	533.9	533.6	534.7
4°	534.2	534.4	534.0	532.8	532.4	533.7
4.5°	533.1	533.6	533.1	531.6	531.1	532.5
5°	532.0	532.6	532.0	530.1	529.6	531.3
5.5°	530.8	531.5	530.8	528.7	528.0	529.8
6°	529.4	530.2	529.6	527.3	526.3	528.3
6.5°	527.9	528.9	528.1	525.8	524.8	526.6
7°	526.3	527.1	526.6	524.1	523.0	524.7
7.5°	524.6	525.3	524.7	522.5	521.3	522.7
8°	522.6	523.1	522.6	520.6	519.4	520.7
8.5°	520.5	520.7	520.3	518.6	517.4	518.3
9°	518.0	517.7	517.6	516.3	515.2	515.8
9.5°	515.3	514.5	514.6	513.7	512.7	513.0
10°	512.1	510.7	511.0	510.6	510.0	510.1
10.5°	508.4	506.5	506.9	507.3	507.0	506.9
11°	504.3	501.7	502.4	503.3	503.6	503.3
11.5°	499.4	496.4	497.3	498.9	499.7	499.4
12°	494.3	490.7	491.8	493.8	495.1	495.0
12.5°	488.8	485.0	486.1	488.5	490.2	490.5
13°	483.1	479.0	480.1	482.9	485.2	485.7
13.5°	477.3	473.2	474.2	477.1	479.9	480.8
14°	471.4	467.0	468.1	471.3	474.4	475.6
14.5°	465.4	461.0	462.1	465.4	468.8	470.5
15°	459.3	454.7	455.9	459.3	463.0	465.1
15.5°	453.4	448.7	449.9	453.6	457.2	459.6
16°	447.6	442.8	444.1	447.6	451.3	454.2
16.5°	441.7	437.2	438.3	441.9	445.8	448.7
17°	436.0	431.3	432.4	436.3	440.1	443.2
17.5°	430.4	425.5	426.9	430.5	434.5	437.5
18°	424.8	419.7	421.1	424.8	428.6	431.8
18.5°	419.0	414.0	415.4	419.2	423.0	426.1
19°	413.6	408.3	409.9	413.6	417.2	420.5
19.5°	408.3	402.5	404.3	408.1	411.6	414.9
20°	402.9	397.1	399.0	402.5	405.9	409.2
20.5°	397.6	391.4	393.4	397.2	400.3	403.6
21°	392.3	386.0	387.9	391.5	394.6	398.0
21.5°	387.0	380.4	382.5	386.0	388.9	392.4
22°	381.6	374.9	377.0	380.4	383.3	386.5

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	376.0	369.2	371.2	374.7	377.4	380.5
23°	369.8	363.1	365.0	368.7	371.1	374.1
23.5°	363.2	356.5	358.6	362.2	364.7	367.7
24°	356.4	349.4	351.7	355.3	357.9	360.9
24.5°	349.4	341.7	344.5	347.9	350.6	354.0
25°	342.1	334.3	337.0	340.2	343.0	346.9
25.5°	334.4	326.8	329.4	332.3	335.5	339.8
26°	326.7	319.4	321.8	324.1	327.7	332.7
26.5°	318.7	311.6	313.9	315.8	319.7	325.7
27°	310.5	304.3	306.0	307.5	311.3	318.2
27.5°	302.2	296.8	297.8	299.1	303.1	310.9
28°	293.6	289.0	289.7	290.9	295.4	303.2
28.5°	285.2	281.2	281.6	282.7	287.6	295.5
29°	277.1	273.4	273.6	274.8	280.0	287.5
29.5°	269.0	265.2	265.6	266.9	272.5	279.6
30°	261.0	256.9	257.3	259.3	265.2	271.2
30.5°	253.0	248.3	249.0	251.5	257.5	263.1
31°	245.2	240.2	240.8	243.7	250.0	255.0
31.5°	237.3	231.7	232.7	236.0	242.3	247.0
32°	229.7	223.6	224.8	228.2	234.3	238.9
32.5°	222.0	215.6	216.9	220.4	226.4	231.1
33°	214.3	207.7	209.2	212.6	218.4	223.2
33.5°	206.6	199.7	201.7	204.6	210.3	215.3
34°	199.0	190.8	194.6	197.0	202.2	207.6
34.5°	191.4	183.7	187.3	189.8	194.4	199.7
35°	184.0	176.6	179.9	182.5	187.0	190.5
35.5°	176.6	169.5	172.6	175.3	179.6	183.2
36°	169.6	162.4	165.2	168.1	172.3	175.9
36.5°	162.5	155.5	157.8	160.9	164.9	168.6
37°	155.5	148.7	150.8	154.1	157.5	161.3
37.5°	148.6	142.1	144.0	147.3	150.7	153.7
38°	141.9	135.8	137.1	140.8	143.9	146.3
38.5°	135.4	129.6	130.5	134.2	137.0	139.1
39°	129.0	123.6	124.6	127.8	130.4	132.3
39.5°	122.7	117.5	118.5	121.3	123.8	125.4
40°	116.4	111.5	112.5	115.1	117.2	118.8
40.5°	110.5	105.9	106.7	108.8	110.6	112.5
41°	104.7	100.5	101.3	102.8	104.4	106.4
41.5°	99.0	95.2	95.8	97.0	98.2	100.4
42°	93.5	90.1	90.6	91.4	92.4	94.7
42.5°	88.1	85.2	85.5	85.7	86.6	89.2
43°	83.0	80.5	80.5	80.6	81.3	83.9
43.5°	78.0	75.8	75.7	75.3	76.0	78.6
44°	73.3	71.4	71.2	70.3	70.9	73.8
44.5°	68.7	67.0	66.8	65.4	66.0	69.0

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	64.2	62.9	62.5	60.8	61.3	64.3
45.5°	60.0	58.9	58.5	56.3	56.9	59.9
46°	55.9	55.1	54.6	52.1	52.7	55.8
46.5°	52.1	51.4	50.9	48.1	48.6	51.7
47°	48.6	47.8	47.3	44.4	44.8	47.9
47.5°	45.1	44.4	43.8	40.9	41.2	44.2
48°	41.6	41.1	40.5	37.7	38.0	40.8
48.5°	38.1	38.0	37.4	34.8	35.0	37.5
49°	35.0	35.0	34.5	32.0	32.0	34.4
49.5°	32.1	32.1	31.6	29.5	29.5	31.5
50°	29.4	29.4	28.9	27.1	27.0	28.6
50.5°	26.8	26.8	26.4	24.9	24.8	25.9
51°	24.4	24.3	24.0	22.8	22.5	23.5
51.5°	22.2	22.0	21.7	20.7	20.5	21.1
52°	20.0	19.7	19.5	18.7	18.8	18.9
52.5°	18.0	17.9	17.7	17.0	17.0	17.0
53°	16.0	16.0	15.9	15.3	15.1	15.0
53.5°	14.2	14.1	14.1	13.5	13.3	13.1
54°	12.5	12.3	12.3	11.8	11.5	11.2
54.5°	10.8	10.4	10.5	10.3	10.0	9.7
55°	9.4	9.0	9.1	8.9	8.6	8.3
55.5°	8.1	7.7	7.8	7.7	7.4	7.1
56°	6.9	6.5	6.6	6.5	6.2	5.9
56.5°	6.0	5.3	5.4	5.3	5.1	4.8
57°	5.2	4.4	4.5	4.3	4.1	3.9
57.5°	4.4	3.7	3.7	3.6	3.4	3.2
58°	3.6	3.1	3.2	3.1	2.9	2.7
58.5°	2.8	2.7	2.8	2.7	2.5	2.3
59°	2.4	2.4	2.4	2.3	2.2	2.0
59.5°	2.1	2.1	2.2	2.1	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.8	1.7
60.5°	1.7	1.8	1.8	1.8	1.6	1.5
61°	1.6	1.6	1.7	1.6	1.5	1.4
61.5°	1.4	1.5	1.5	1.5	1.3	1.2
62°	1.3	1.3	1.4	1.3	1.2	1.1
62.5°	1.2	1.2	1.3	1.2	1.1	1.0
63°	1.1	1.1	1.2	1.1	1.0	0.9
63.5°	1.0	1.0	1.1	1.0	0.9	0.9
64°	0.9	1.0	1.0	1.0	0.9	0.8
64.5°	0.9	0.9	0.9	0.9	0.8	0.7
65°	0.8	0.8	0.9	0.8	0.7	0.7
65.5°	0.7	0.8	0.8	0.8	0.7	0.6
66°	0.7	0.7	0.7	0.7	0.6	0.6
66.5°	0.6	0.7	0.7	0.7	0.6	0.6
67°	0.6	0.6	0.6	0.6	0.5	0.5

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.6	0.6	0.6	0.6	0.5	0.5
68°	0.5	0.5	0.6	0.5	0.5	0.4
68.5°	0.5	0.5	0.5	0.5	0.4	0.4
69°	0.4	0.5	0.5	0.5	0.4	0.4
69.5°	0.4	0.4	0.5	0.4	0.4	0.3
70°	0.4	0.4	0.4	0.4	0.4	0.3
70.5°	0.4	0.4	0.4	0.4	0.3	0.3
71°	0.3	0.3	0.4	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.2
72.5°	0.3	0.3	0.3	0.3	0.2	0.2
73°	0.2	0.3	0.3	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.2	0.2
74°	0.2	0.2	0.2	0.2	0.2	0.2
74.5°	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.1
75.5°	0.2	0.2	0.2	0.2	0.1	0.1
76°	0.1	0.2	0.2	0.1	0.1	0.1
76.5°	0.1	0.1	0.1	0.1	0.1	0.1
77°	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.1	0.1	0.1	0.1	0.1	0.1
78°	0.1	0.1	0.1	0.1	0.1	0.1
78.5°	0.1	0.1	0.1	0.1	0.1	0.1
79°	0.1	0.1	0.1	0.1	0.1	0.1
79.5°	0.1	0.1	0.1	0.1	0.1	0.0
80°	0.1	0.1	0.1	0.1	0.0	0.0
80.5°	0.0	0.1	0.1	0.1	0.0	0.0
81°	0.0	0.0	0.1	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	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
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: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-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: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-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	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.1	0.0	0.0	0.0	0.0	0.0
130.5°	0.1	0.0	0.0	0.0	0.0	0.0
131°	0.1	0.1	0.1	0.1	0.0	0.0
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°	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.1	0.1	0.1	0.1	0.1	0.1
135.5°	0.1	0.1	0.1	0.1	0.1	0.1
136°	0.1	0.1	0.1	0.1	0.1	0.1
136.5°	0.1	0.1	0.1	0.1	0.1	0.1
137°	0.1	0.1	0.1	0.1	0.1	0.1
137.5°	0.1	0.1	0.1	0.1	0.1	0.1
138°	0.1	0.1	0.1	0.1	0.1	0.1
138.5°	0.1	0.1	0.1	0.1	0.1	0.1
139°	0.1	0.1	0.1	0.1	0.1	0.1
139.5°	0.1	0.1	0.1	0.1	0.1	0.1
140°	0.1	0.1	0.1	0.1	0.1	0.1
140.5°	0.1	0.1	0.1	0.1	0.1	0.1
141°	0.1	0.1	0.1	0.1	0.1	0.1
141.5°	0.1	0.1	0.1	0.1	0.1	0.1
142°	0.1	0.1	0.1	0.1	0.1	0.1
142.5°	0.1	0.1	0.1	0.1	0.1	0.1
143°	0.2	0.1	0.1	0.1	0.1	0.1
143.5°	0.2	0.1	0.1	0.1	0.1	0.1
144°	0.2	0.1	0.1	0.1	0.1	0.1
144.5°	0.2	0.1	0.1	0.1	0.1	0.1
145°	0.2	0.1	0.1	0.1	0.1	0.1
145.5°	0.2	0.1	0.1	0.1	0.1	0.1
146°	0.2	0.1	0.1	0.1	0.1	0.1
146.5°	0.2	0.1	0.1	0.1	0.1	0.1
147°	0.2	0.1	0.1	0.1	0.1	0.1
147.5°	0.2	0.1	0.1	0.1	0.1	0.1
148°	0.2	0.1	0.1	0.1	0.1	0.1
148.5°	0.2	0.1	0.1	0.1	0.1	0.1
149°	0.2	0.1	0.1	0.1	0.1	0.1
149.5°	0.2	0.1	0.1	0.1	0.1	0.1
150°	0.2	0.1	0.1	0.1	0.1	0.1
150.5°	0.2	0.1	0.1	0.1	0.1	0.1
151°	0.2	0.1	0.1	0.1	0.1	0.1
151.5°	0.2	0.1	0.1	0.1	0.1	0.1
152°	0.2	0.1	0.1	0.1	0.1	0.1
152.5°	0.2	0.1	0.1	0.1	0.1	0.1
153°	0.2	0.1	0.1	0.1	0.1	0.1
153.5°	0.2	0.1	0.1	0.1	0.1	0.1
154°	0.2	0.1	0.1	0.1	0.1	0.1
154.5°	0.2	0.1	0.1	0.1	0.1	0.1
155°	0.2	0.1	0.1	0.1	0.1	0.1
155.5°	0.3	0.1	0.1	0.1	0.1	0.1
156°	0.3	0.1	0.1	0.1	0.1	0.1
156.5°	0.3	0.1	0.1	0.1	0.1	0.1
157°	0.3	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.1	0.1	0.1	0.1	0.1
158°	0.3	0.1	0.1	0.1	0.1	0.1
158.5°	0.3	0.1	0.1	0.1	0.1	0.1
159°	0.3	0.1	0.1	0.1	0.2	0.1
159.5°	0.3	0.1	0.1	0.2	0.2	0.2
160°	0.3	0.1	0.1	0.2	0.2	0.2
160.5°	0.3	0.1	0.1	0.2	0.2	0.2
161°	0.3	0.1	0.1	0.2	0.2	0.2
161.5°	0.3	0.1	0.1	0.2	0.2	0.2
162°	0.3	0.1	0.1	0.2	0.2	0.2
162.5°	0.3	0.1	0.1	0.2	0.2	0.2
163°	0.3	0.1	0.1	0.2	0.2	0.2
163.5°	0.3	0.1	0.2	0.2	0.2	0.2
164°	0.3	0.1	0.2	0.2	0.2	0.2
164.5°	0.3	0.1	0.2	0.2	0.2	0.2
165°	0.3	0.1	0.2	0.2	0.2	0.2
165.5°	0.3	0.1	0.2	0.2	0.2	0.2
166°	0.3	0.1	0.2	0.2	0.2	0.2
166.5°	0.3	0.1	0.2	0.2	0.2	0.2
167°	0.3	0.1	0.2	0.2	0.2	0.2
167.5°	0.3	0.1	0.2	0.2	0.2	0.2
168°	0.3	0.1	0.2	0.2	0.2	0.2
168.5°	0.3	0.1	0.2	0.2	0.2	0.2
169°	0.3	0.1	0.2	0.2	0.2	0.2
169.5°	0.3	0.1	0.2	0.2	0.2	0.2
170°	0.3	0.1	0.1	0.2	0.2	0.2
170.5°	0.3	0.1	0.1	0.2	0.2	0.2
171°	0.3	0.1	0.1	0.2	0.2	0.2
171.5°	0.3	0.1	0.1	0.2	0.2	0.2
172°	0.3	0.1	0.1	0.2	0.2	0.2
172.5°	0.3	0.1	0.1	0.2	0.2	0.2
173°	0.2	0.1	0.1	0.2	0.2	0.2
173.5°	0.2	0.1	0.1	0.2	0.2	0.2
174°	0.2	0.1	0.1	0.2	0.2	0.2
174.5°	0.2	0.1	0.2	0.2	0.2	0.2
175°	0.2	0.1	0.2	0.2	0.2	0.2
175.5°	0.2	0.2	0.2	0.2	0.2	0.2
176°	0.2	0.2	0.2	0.2	0.2	0.2
176.5°	0.2	0.2	0.2	0.2	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2
177.5°	0.2	0.2	0.2	0.2	0.2	0.2
178°	0.2	0.2	0.2	0.2	0.2	0.2
178.5°	0.2	0.2	0.2	0.2	0.2	0.2
179°	0.2	0.2	0.2	0.2	0.2	0.2
179.5°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590533

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-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	0.1	1.1	0.5	1.5	1.8	1.1	2.1	1.5	2.4	2.8
	3H	0.0	0.9	0.4	1.3	1.6	1.0	1.9	1.4	2.3	2.6
	4H	0.0	0.8	0.4	1.2	1.5	1.0	1.8	1.4	2.2	2.5
	6H	0.0	0.6	0.3	1.0	1.4	0.9	1.6	1.3	2.0	2.4
	8H	0.0	0.5	0.2	0.9	1.3	0.8	1.5	1.2	1.9	2.3
	12H	0.0	0.4	0.2	0.8	1.3	0.7	1.4	1.2	1.8	2.3
4H	2H	0.0	0.8	0.3	1.1	1.5	0.9	1.7	1.3	2.1	2.5
	3H	0.0	0.6	0.3	1.0	1.4	0.8	1.5	1.3	1.9	2.3
	4H	0.0	0.4	0.2	0.8	1.3	0.8	1.4	1.2	1.8	2.2
	6H	0.0	0.2	0.2	0.7	1.1	0.7	1.2	1.1	1.6	2.1
	8H	0.0	0.1	0.1	0.6	1.0	0.6	1.1	1.1	1.5	2.0
	12H	0.0	0.0	0.1	0.5	1.0	0.5	1.0	1.0	1.4	1.9
8H	4H	0.0	0.1	0.1	0.6	1.0	0.6	1.1	1.1	1.5	2.0
	6H	0.0	0.0	0.0	0.4	0.9	0.5	0.9	1.0	1.4	1.9
	8H	0.0	0.0	0.0	0.3	0.8	0.4	0.8	1.0	1.3	1.8
	12H	0.0	0.0	0.0	0.2	0.8	0.4	0.7	0.9	1.2	1.7
12H	4H	0.0	0.0	0.1	0.5	1.0	0.5	1.0	1.0	1.4	1.9
	6H	0.0	0.0	0.0	0.3	0.8	0.4	0.8	1.0	1.2	1.8
	8H	0.0	0.0	0.0	0.2	0.8	0.4	0.7	0.9	1.2	1.7

(END OF REPORT)