

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: P1590535

Luminaire Tested: HCDLS510CSD4TRMW-LO-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590535
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-4000K
Description: 4" Selectable Round Trim+Matte White (paintable) 500 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

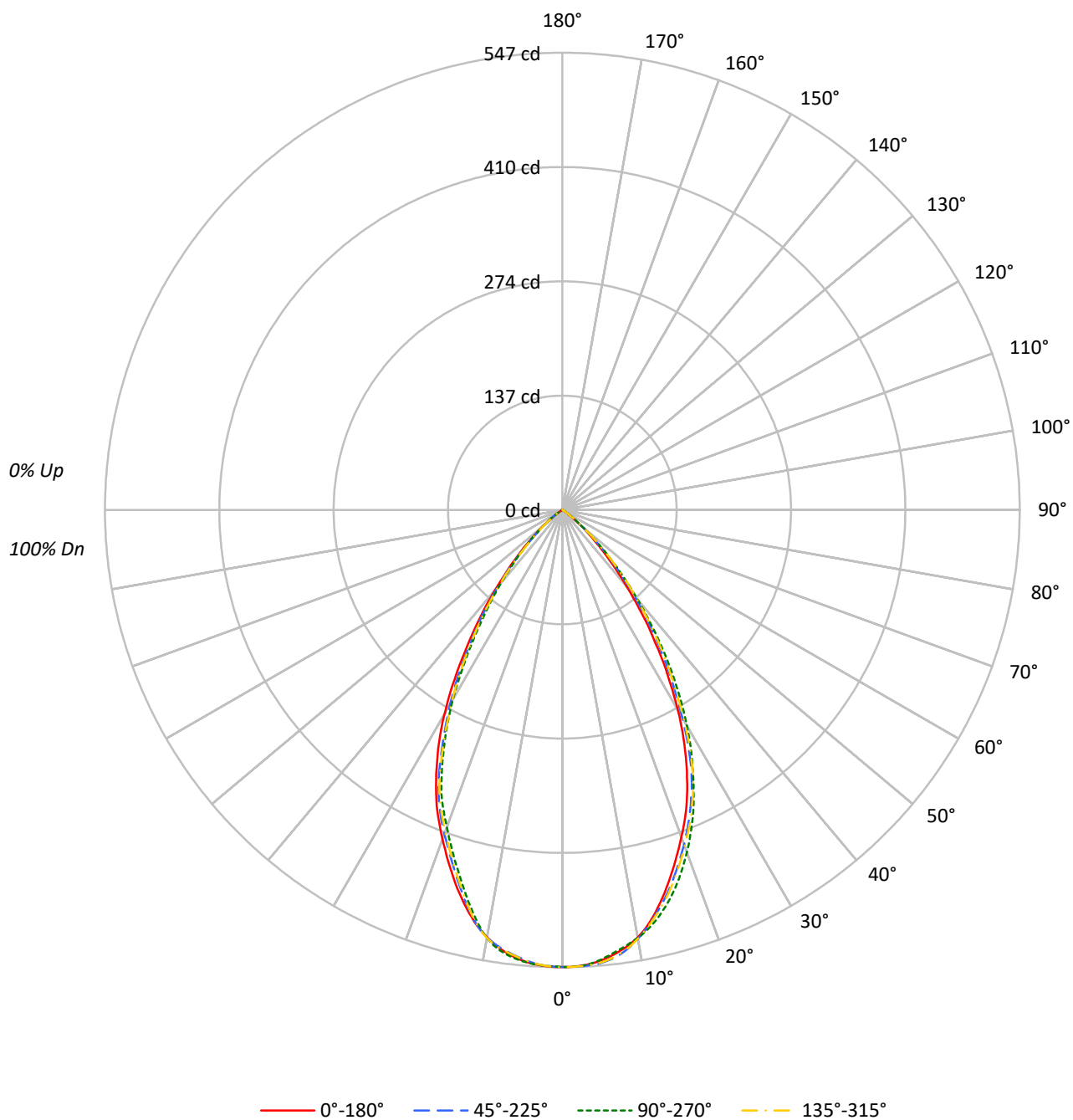
Lumens per Lamp: N/A
Luminaire Lumens: 534.7 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	108	106	111	108	106	104		104	102	101		100	99	98		97	96	95
2	107	102	98	95	105	101	97	94		97	94	91		94	92	90		92	89	88
3	102	95	90	86	100	94	89	85		91	87	84		88	85	82		86	83	81
4	96	88	82	78	94	87	82	78		85	80	77		83	79	76		81	78	75
5	91	82	76	72	89	81	76	71		79	74	71		78	73	70		76	72	69
6	86	77	71	66	85	76	70	66		74	69	65		73	68	65		72	68	64
7	82	72	66	61	80	71	65	61		70	65	61		69	64	60		67	63	60
8	77	67	61	57	76	67	61	57		66	60	56		65	60	56		64	59	56
9	73	63	57	53	72	63	57	53		62	56	53		61	56	53		60	56	52
10	70	60	54	50	69	59	53	50		58	53	49		58	53	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	67445	67445	67445	67445
5°	66948	66799	67022	67109
10°	65029	65104	65016	65092
15°	60439	62150	60656	59085
20°	54670	57178	55025	53043
25°	48042	50574	48627	46300
30°	39310	42472	40164	37230
35°	29182	32856	29799	27059
40°	19467	22623	20256	18275
45°	11426	13693	12088	11164
50°	5584	6409	5987	5738
55°	1828	1935	1935	1957
60°	419	469	444	493
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: 13693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	9.5
10°-20°	132.4	24.8
20°-30°	161.8	30.3
30°-40°	123.3	23.0
40°-50°	55.0	10.3
50°-60°	10.0	1.9
60°-70°	0.9	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°	345.2	64.6
0°-40°	468.4	87.6
0°-60°	533.3	99.7
0°-90°	534.4	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	534.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	547	547	547	547	547	
5°	541	540	541	542	541	51
15°	473	487	475	463	473	132
25°	353	372	357	340	353	160
35°	194	218	198	180	194	121
45°	66	78	69	64	66	52
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°	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8
0.5°	546.9	546.7	546.8	546.9	546.7	546.8	547.0	546.9	546.9	546.7	546.7
1°	546.7	546.7	546.8	546.9	546.7	546.8	546.9	546.9	546.7	546.5	546.5
1.5°	546.4	546.5	546.7	546.7	546.5	546.7	546.7	546.7	546.5	546.2	546.2
2°	546.0	546.2	546.5	546.5	546.2	546.3	546.5	546.5	546.1	545.7	545.8
2.5°	545.5	546.0	546.3	546.1	545.7	545.9	546.3	546.2	545.7	545.1	545.2
3°	545.0	545.7	546.0	545.5	545.0	545.3	545.9	545.9	545.1	544.3	544.4
3.5°	544.1	545.4	545.6	544.8	544.0	544.5	545.3	545.4	544.5	543.3	543.4
4°	543.2	544.9	545.2	543.8	542.7	543.5	544.8	544.9	543.6	542.1	542.2
4.5°	542.0	544.2	544.6	542.6	541.2	542.2	544.0	544.2	542.6	540.6	540.9
5°	540.7	543.4	543.6	541.1	539.5	540.6	543.0	543.5	541.3	539.0	539.4
5.5°	539.2	542.3	542.5	539.6	537.7	538.9	541.8	542.4	540.0	537.3	537.8
6°	537.6	541.0	541.3	537.8	535.8	537.1	540.4	541.2	538.3	535.5	536.2
6.5°	535.9	539.4	539.8	536.0	533.8	535.2	538.9	539.7	536.5	533.7	534.5
7°	534.0	537.6	537.9	534.1	531.9	533.3	537.0	537.9	534.5	531.7	532.8
7.5°	531.9	535.4	535.8	532.0	530.0	531.3	535.0	535.8	532.6	529.8	530.9
8°	529.9	533.1	533.4	529.8	528.0	529.2	532.7	533.4	530.2	527.8	529.0
8.5°	527.5	530.5	530.7	527.4	526.0	527.1	530.1	530.8	527.7	525.5	526.8
9°	524.9	527.6	527.8	525.0	524.0	524.7	527.2	527.9	525.1	523.2	524.5
9.5°	522.1	524.3	524.6	522.3	522.0	522.3	524.2	524.6	522.3	520.7	522.0
10°	519.2	520.9	521.1	519.5	519.8	519.6	520.9	521.1	519.1	518.0	519.2
10.5°	515.9	517.2	517.4	516.5	517.5	517.0	517.4	517.3	515.7	514.7	515.8
11°	512.2	513.4	513.5	513.3	514.9	514.0	513.7	513.5	512.1	511.4	512.2
11.5°	508.3	509.1	509.6	509.9	512.1	510.9	509.9	509.5	508.3	507.6	508.0
12°	503.8	504.8	505.5	506.1	509.2	507.6	506.1	505.3	504.2	503.3	503.2
12.5°	499.2	500.2	501.1	502.5	505.8	503.9	502.1	501.0	499.6	498.6	497.8
13°	494.3	495.7	496.7	498.6	502.5	500.3	497.9	496.4	495.2	493.7	492.6
13.5°	489.3	490.8	492.3	494.7	498.8	496.6	493.6	491.9	490.3	488.5	487.1
14°	484.1	485.9	487.8	490.4	494.8	492.6	489.2	487.1	485.5	483.1	481.3
14.5°	478.8	480.9	483.1	486.2	490.8	488.4	484.6	482.4	480.2	477.6	475.5
15°	473.3	475.8	478.3	481.7	486.7	484.0	480.2	477.5	475.0	472.0	469.5
15.5°	467.7	470.6	473.5	477.0	482.3	479.5	475.4	472.5	469.7	466.4	463.5
16°	462.2	465.2	468.5	472.1	477.7	474.8	470.5	467.2	464.2	460.5	457.6
16.5°	456.7	460.0	463.4	467.3	473.0	470.0	465.4	462.0	458.7	454.7	451.8
17°	451.0	454.6	458.2	462.2	468.1	465.0	460.2	456.6	453.1	449.0	445.9
17.5°	445.2	449.1	452.8	457.1	463.1	459.9	455.0	451.0	447.4	443.2	440.1
18°	439.4	443.5	447.4	451.7	457.8	454.7	449.6	445.5	441.8	437.5	434.3
18.5°	433.7	437.9	441.9	446.2	452.4	449.3	444.2	440.1	436.2	431.7	428.6
19°	427.9	432.2	436.6	440.8	446.9	443.9	438.8	434.6	430.3	426.1	422.9
19.5°	422.3	426.6	431.1	435.3	441.4	438.4	433.4	428.9	424.7	420.5	417.9
20°	416.5	420.8	425.6	429.7	435.6	432.9	428.0	423.5	419.2	415.0	412.4
20.5°	410.8	415.3	420.0	424.1	430.0	427.3	422.5	418.1	413.4	409.4	406.9
21°	405.0	409.5	414.4	418.3	424.1	421.5	417.0	412.6	407.6	403.8	401.5
21.5°	399.3	403.8	408.8	412.5	417.9	415.4	411.4	407.0	401.8	398.2	396.0
22°	393.3	397.8	402.9	406.3	411.7	409.4	405.9	401.4	396.0	392.7	390.0

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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°	387.3	392.1	397.1	400.4	405.5	403.4	400.4	395.9	390.7	386.5	384.0
23°	380.7	385.9	391.2	393.8	399.3	397.3	394.9	389.7	384.3	379.9	377.8
23.5°	374.2	379.7	385.2	387.6	393.1	391.3	388.6	383.6	377.8	373.3	371.2
24°	367.3	373.3	378.8	380.8	385.9	384.5	382.5	377.4	371.0	366.6	364.1
24.5°	360.3	366.7	372.7	374.2	378.9	377.8	376.2	370.9	364.2	359.4	356.7
25°	353.0	359.8	366.1	367.0	371.6	370.8	369.7	364.4	357.3	352.1	348.9
25.5°	345.9	352.9	359.5	360.2	364.5	363.8	363.0	357.7	350.2	344.6	340.9
26°	338.6	345.8	352.5	353.0	357.3	356.7	356.1	350.8	343.1	337.0	332.4
26.5°	331.5	338.5	345.4	345.7	350.0	349.4	349.0	343.5	335.8	329.3	323.9
27°	323.9	331.1	337.7	338.4	342.7	342.1	341.5	336.1	328.6	321.4	315.5
27.5°	316.4	323.7	329.7	331.0	335.7	334.9	333.9	328.6	321.3	313.3	307.4
28°	308.6	316.2	321.4	323.4	328.4	327.5	325.7	320.8	313.7	305.4	299.4
28.5°	300.8	308.0	312.8	315.6	321.1	319.9	317.5	312.8	306.0	297.2	291.3
29°	292.6	300.2	304.1	307.8	313.7	312.5	309.0	304.6	298.2	289.3	283.6
29.5°	284.5	292.0	295.1	300.0	306.1	304.7	300.3	296.0	290.1	281.5	275.9
30°	276.0	283.5	286.3	291.8	298.2	296.8	291.2	287.2	282.0	273.6	268.2
30.5°	267.8	274.7	277.6	283.4	290.3	288.6	282.4	278.3	273.5	265.6	260.3
31°	259.5	266.2	269.1	275.0	282.2	280.5	273.8	269.4	265.2	257.9	252.3
31.5°	251.4	257.2	260.9	266.6	274.3	272.2	265.4	260.5	256.7	250.2	244.3
32°	243.1	248.4	252.9	258.0	266.2	263.8	257.3	251.9	248.6	242.5	236.2
32.5°	235.2	239.5	244.9	249.6	258.4	255.5	249.3	243.6	239.8	234.7	228.2
33°	227.2	231.4	237.3	241.3	250.5	247.0	241.7	235.3	231.2	227.1	220.0
33.5°	219.1	222.7	229.5	232.9	242.5	238.6	233.9	227.4	222.7	219.1	211.8
34°	211.2	214.8	221.8	225.0	234.4	230.4	226.3	219.5	214.5	211.3	204.1
34.5°	203.2	206.6	213.9	217.1	226.3	222.4	218.7	211.8	206.0	203.3	196.2
35°	193.8	198.7	206.0	209.5	218.2	214.5	211.0	204.4	197.9	195.1	188.9
35.5°	186.4	191.1	198.3	202.1	210.1	206.7	203.2	196.6	190.1	187.1	181.7
36°	179.0	183.5	190.8	195.0	201.9	199.1	195.5	188.8	182.6	179.3	174.7
36.5°	171.6	175.9	183.3	187.6	193.8	191.4	187.8	181.2	174.8	171.6	167.6
37°	164.1	168.4	175.8	180.1	185.8	184.0	180.1	173.6	167.4	164.1	160.8
37.5°	156.4	160.8	168.2	172.7	177.9	176.6	172.6	165.8	160.1	156.6	153.9
38°	148.9	153.9	160.7	165.3	170.2	169.3	165.5	158.5	153.0	149.5	147.1
38.5°	141.6	146.8	153.8	158.0	162.4	162.0	158.4	151.3	145.9	142.5	140.2
39°	134.6	140.1	147.1	151.0	155.0	155.1	151.7	144.4	139.2	135.7	133.5
39.5°	127.7	133.4	140.3	143.9	147.7	147.9	145.0	137.7	132.4	128.8	126.9
40°	120.9	126.9	133.6	137.0	140.5	141.0	138.3	131.3	125.8	122.1	120.4
40.5°	114.5	120.7	127.1	130.2	133.6	133.9	131.7	124.9	119.2	115.6	114.0
41°	108.3	114.5	120.6	123.6	126.7	127.2	125.2	118.7	112.8	109.3	107.9
41.5°	102.1	108.4	114.0	117.1	120.1	120.4	118.8	112.7	106.7	103.1	102.0
42°	96.4	102.7	107.9	111.0	113.7	114.0	112.3	106.9	100.7	97.0	96.4
42.5°	90.8	96.9	101.8	104.8	107.5	107.5	105.9	101.0	95.0	91.2	90.6
43°	85.4	91.3	95.8	98.5	101.4	101.4	99.8	95.4	89.5	85.6	85.1
43.5°	80.0	85.6	90.0	92.5	95.4	95.2	93.8	89.9	84.0	80.3	79.6
44°	75.1	80.2	84.6	86.5	89.5	89.5	88.0	84.5	79.0	75.2	74.5
44.5°	70.2	75.1	79.2	80.8	83.9	83.6	82.3	79.1	74.0	70.3	69.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	65.5	70.1	74.0	75.2	78.5	78.2	77.0	74.1	69.3	65.5	64.2
45.5°	60.9	65.2	69.1	69.7	73.1	72.7	71.7	69.1	64.7	61.0	59.3
46°	56.8	60.6	64.1	64.5	68.0	67.5	66.7	64.3	60.1	56.7	55.0
46.5°	52.6	56.0	59.3	59.5	63.0	62.4	61.8	59.6	56.0	53.0	51.1
47°	48.8	51.9	54.7	54.8	58.3	57.5	57.0	55.1	52.2	49.2	47.2
47.5°	45.0	47.8	50.2	50.2	54.1	53.3	52.8	51.2	48.5	45.5	43.3
48°	41.5	44.0	45.9	45.9	49.8	49.1	48.7	47.2	44.8	41.8	39.4
48.5°	38.1	40.2	41.8	41.8	45.6	44.9	44.5	43.3	41.1	38.0	36.2
49°	35.0	36.8	37.9	38.1	41.3	40.6	40.3	39.3	37.4	34.9	33.3
49.5°	32.0	33.5	34.2	34.5	37.1	36.4	36.1	35.4	34.2	31.9	30.7
50°	29.1	30.4	30.7	31.1	33.4	33.0	32.6	32.1	31.2	29.2	28.2
50.5°	26.4	27.3	27.5	27.9	29.9	29.6	29.3	29.0	28.3	26.6	25.8
51°	23.9	24.6	24.6	24.9	26.8	26.6	26.3	26.0	25.6	24.2	23.6
51.5°	21.4	22.0	21.8	22.1	23.8	23.7	23.5	23.3	23.0	21.9	21.5
52°	19.2	19.6	19.4	19.6	21.0	21.0	20.8	20.7	20.6	19.8	19.5
52.5°	17.3	17.6	17.4	17.6	18.5	18.5	18.4	18.3	18.2	17.7	17.6
53°	15.3	15.6	15.4	15.6	16.1	16.3	16.2	16.1	16.0	15.7	15.7
53.5°	13.4	13.6	13.5	13.6	14.0	14.1	14.1	14.0	14.1	13.8	13.9
54°	11.4	11.7	11.5	11.5	12.1	12.2	12.2	12.1	12.2	12.1	12.3
54.5°	9.9	9.7	9.5	9.5	10.4	10.6	10.6	10.4	10.5	10.5	10.7
55°	8.5	8.3	8.2	8.2	9.0	9.1	9.1	9.0	9.0	9.0	9.2
55.5°	7.2	7.0	6.9	6.9	7.7	7.8	7.8	7.7	7.7	7.8	8.0
56°	6.0	5.8	5.7	5.6	6.4	6.5	6.5	6.8	6.8	6.9	6.7
56.5°	4.8	4.7	4.6	4.6	5.7	5.7	5.7	6.0	5.8	6.0	5.9
57°	3.9	3.8	3.7	3.8	4.9	5.0	5.0	5.2	4.9	5.2	5.1
57.5°	3.2	3.1	3.1	3.1	4.2	4.3	4.3	4.3	3.9	4.3	4.3
58°	2.7	2.7	2.6	2.7	3.4	3.5	3.5	3.5	3.0	3.4	3.5
58.5°	2.4	2.3	2.3	2.3	2.7	2.8	2.8	2.7	2.6	2.6	2.7
59°	2.1	2.0	2.0	2.1	2.4	2.5	2.4	2.3	2.3	2.2	2.3
59.5°	1.9	1.8	1.8	1.9	2.1	2.2	2.2	2.1	2.0	2.0	2.0
60°	1.7	1.7	1.7	1.7	1.9	2.0	2.0	1.8	1.8	1.8	1.8
60.5°	1.6	1.5	1.5	1.6	1.7	1.8	1.8	1.7	1.6	1.6	1.6
61°	1.4	1.3	1.3	1.4	1.6	1.6	1.6	1.5	1.4	1.4	1.5
61.5°	1.3	1.2	1.2	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.3
62°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.3	1.2	1.2	1.2
62.5°	1.1	1.0	1.0	1.1	1.2	1.3	1.2	1.2	1.1	1.1	1.1
63°	1.0	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
63.5°	0.9	0.9	0.9	0.9	1.0	1.1	1.1	1.0	0.9	0.9	1.0
64°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9
64.5°	0.8	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	0.9	0.8	0.8	0.7	0.7	0.8
65.5°	0.7	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	0.7
66.5°	0.6	0.6	0.6	0.6	0.7	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	0.6	0.6	0.6

TEST NUMBER: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

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	0.5
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°	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
70°	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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	0.4	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	0.3
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	0.2	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	0.2
76°	0.1	0.1	0.1	0.1	0.2	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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	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	0.1	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	0.1	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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.1	0.1	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	0.2	0.2	0.2
143.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	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	0.3	0.2
155°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3
155.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.1	0.1	0.1	0.1	0.3	0.3	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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

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°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.2	0.2	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	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171.5°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173.5°	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3
174°	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2
174.5°	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175.5°	0.2	0.2	0.2	0.2	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: P1590535
CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	546.8	546.8	546.8	546.8	546.8	546.8
0.5°	546.9	546.5	546.7	546.9	546.8	546.9
1°	546.7	546.3	546.5	546.6	546.6	546.7
1.5°	546.5	546.1	546.3	546.3	546.2	546.4
2°	546.2	545.8	545.9	545.7	545.7	546.0
2.5°	545.7	545.5	545.5	545.1	545.1	545.5
3°	545.2	545.1	545.0	544.3	544.1	545.0
3.5°	544.5	544.6	544.3	543.4	543.0	544.1
4°	543.7	543.8	543.5	542.2	541.8	543.2
4.5°	542.5	543.0	542.5	541.0	540.5	542.0
5°	541.4	542.0	541.4	539.5	538.9	540.7
5.5°	540.2	540.9	540.2	538.1	537.4	539.2
6°	538.8	539.6	538.9	536.6	535.6	537.6
6.5°	537.3	538.2	537.5	535.1	534.0	535.9
7°	535.6	536.4	535.9	533.4	532.2	534.0
7.5°	533.9	534.6	534.0	531.8	530.5	531.9
8°	531.8	532.4	531.9	529.8	528.6	529.9
8.5°	529.7	529.9	529.5	527.8	526.6	527.5
9°	527.2	526.9	526.8	525.4	524.3	524.9
9.5°	524.4	523.6	523.7	522.8	521.8	522.1
10°	521.1	519.7	520.1	519.6	519.1	519.2
10.5°	517.4	515.5	515.9	516.3	516.0	515.9
11°	513.2	510.6	511.3	512.2	512.5	512.2
11.5°	508.3	505.2	506.1	507.7	508.5	508.3
12°	503.0	499.4	500.5	502.5	503.8	503.8
12.5°	497.4	493.6	494.7	497.2	498.8	499.2
13°	491.7	487.5	488.6	491.5	493.8	494.3
13.5°	485.8	481.6	482.6	485.6	488.4	489.3
14°	479.8	475.3	476.4	479.6	482.8	484.1
14.5°	473.6	469.1	470.3	473.7	477.0	478.8
15°	467.4	462.7	463.9	467.5	471.2	473.3
15.5°	461.4	456.7	457.9	461.6	465.3	467.7
16°	455.5	450.6	452.0	455.6	459.3	462.2
16.5°	449.5	444.9	446.1	449.8	453.7	456.7
17°	443.7	438.9	440.1	444.0	447.8	451.0
17.5°	438.0	433.0	434.5	438.1	442.2	445.2
18°	432.3	427.1	428.6	432.3	436.2	439.4
18.5°	426.4	421.3	422.7	426.6	430.5	433.7
19°	420.9	415.5	417.1	420.9	424.6	427.9
19.5°	415.5	409.6	411.5	415.3	418.9	422.3
20°	410.1	404.1	406.0	409.7	413.1	416.5
20.5°	404.7	398.3	400.4	404.2	407.4	410.8
21°	399.3	392.9	394.8	398.5	401.6	405.0
21.5°	393.9	387.1	389.2	392.8	395.8	399.3
22°	388.3	381.6	383.7	387.1	390.1	393.3

TEST NUMBER: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	382.6	375.8	377.8	381.4	384.0	387.3
23°	376.3	369.6	371.5	375.2	377.6	380.7
23.5°	369.6	362.9	364.9	368.6	371.2	374.2
24°	362.7	355.6	357.9	361.6	364.2	367.3
24.5°	355.6	347.7	350.6	354.0	356.8	360.3
25°	348.1	340.2	343.0	346.3	349.1	353.0
25.5°	340.3	332.6	335.3	338.1	341.4	345.9
26°	332.5	325.0	327.4	329.8	333.5	338.6
26.5°	324.3	317.1	319.5	321.4	325.3	331.5
27°	316.0	309.7	311.4	312.9	316.8	323.9
27.5°	307.5	302.0	303.1	304.4	308.5	316.4
28°	298.8	294.1	294.8	296.1	300.6	308.6
28.5°	290.3	286.2	286.6	287.7	292.7	300.8
29°	282.0	278.2	278.5	279.7	285.0	292.6
29.5°	273.8	269.9	270.3	271.7	277.3	284.5
30°	265.7	261.4	261.8	263.8	269.8	276.0
30.5°	257.5	252.7	253.4	255.9	262.1	267.8
31°	249.5	244.4	245.1	248.0	254.4	259.5
31.5°	241.5	235.8	236.9	240.2	246.6	251.4
32°	233.7	227.5	228.7	232.2	238.5	243.1
32.5°	225.9	219.4	220.7	224.3	230.4	235.2
33°	218.1	211.4	212.9	216.3	222.3	227.2
33.5°	210.2	203.2	205.3	208.2	214.0	219.1
34°	202.5	194.2	198.1	200.5	205.8	211.2
34.5°	194.7	186.9	190.6	193.1	197.8	203.2
35°	187.3	179.7	183.1	185.8	190.3	193.8
35.5°	179.7	172.5	175.6	178.4	182.8	186.4
36°	172.6	165.3	168.1	171.1	175.3	179.0
36.5°	165.3	158.3	160.6	163.7	167.8	171.6
37°	158.2	151.4	153.5	156.8	160.3	164.1
37.5°	151.2	144.6	146.5	149.9	153.3	156.4
38°	144.4	138.2	139.6	143.3	146.4	148.9
38.5°	137.7	131.9	132.9	136.6	139.5	141.6
39°	131.3	125.8	126.8	130.1	132.8	134.6
39.5°	124.9	119.6	120.6	123.5	126.0	127.7
40°	118.5	113.5	114.5	117.1	119.3	120.9
40.5°	112.4	107.8	108.6	110.8	112.6	114.5
41°	106.5	102.2	103.0	104.6	106.3	108.3
41.5°	100.8	96.9	97.5	98.7	99.9	102.1
42°	95.2	91.7	92.2	93.0	94.0	96.4
42.5°	89.7	86.7	87.0	87.2	88.2	90.8
43°	84.4	81.9	81.9	82.0	82.7	85.4
43.5°	79.4	77.2	77.1	76.6	77.3	80.0
44°	74.6	72.6	72.4	71.5	72.2	75.1
44.5°	69.9	68.2	68.0	66.5	67.2	70.2

TEST NUMBER: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	65.4	64.0	63.6	61.9	62.4	65.5
45.5°	61.1	59.9	59.5	57.3	57.9	60.9
46°	56.9	56.1	55.6	53.0	53.6	56.8
46.5°	53.0	52.3	51.8	48.9	49.5	52.6
47°	49.5	48.6	48.1	45.2	45.6	48.8
47.5°	45.9	45.2	44.6	41.7	42.0	45.0
48°	42.3	41.8	41.3	38.4	38.7	41.5
48.5°	38.8	38.7	38.1	35.4	35.6	38.1
49°	35.6	35.6	35.1	32.6	32.6	35.0
49.5°	32.7	32.7	32.2	30.0	30.0	32.0
50°	30.0	29.9	29.4	27.6	27.5	29.1
50.5°	27.3	27.3	26.8	25.3	25.2	26.4
51°	24.9	24.8	24.4	23.2	22.9	23.9
51.5°	22.6	22.3	22.1	21.1	20.9	21.4
52°	20.4	20.1	19.9	19.1	19.1	19.2
52.5°	18.3	18.2	18.0	17.3	17.3	17.3
53°	16.3	16.3	16.2	15.5	15.4	15.3
53.5°	14.5	14.4	14.3	13.7	13.6	13.4
54°	12.7	12.5	12.5	12.0	11.7	11.4
54.5°	11.0	10.6	10.6	10.5	10.2	9.9
55°	9.5	9.1	9.2	9.1	8.8	8.5
55.5°	8.3	7.9	8.0	7.8	7.6	7.2
56°	7.0	6.6	6.7	6.6	6.3	6.0
56.5°	6.1	5.4	5.5	5.4	5.2	4.8
57°	5.3	4.5	4.5	4.4	4.2	3.9
57.5°	4.5	3.7	3.8	3.7	3.5	3.2
58°	3.7	3.2	3.3	3.1	2.9	2.7
58.5°	2.8	2.7	2.8	2.7	2.5	2.4
59°	2.5	2.4	2.5	2.4	2.2	2.1
59.5°	2.2	2.1	2.2	2.1	2.0	1.9
60°	1.9	2.0	2.0	2.0	1.8	1.7
60.5°	1.8	1.8	1.8	1.8	1.7	1.6
61°	1.6	1.7	1.7	1.7	1.5	1.4
61.5°	1.4	1.5	1.6	1.5	1.3	1.3
62°	1.3	1.4	1.4	1.3	1.2	1.1
62.5°	1.2	1.2	1.3	1.2	1.1	1.1
63°	1.1	1.2	1.2	1.1	1.0	1.0
63.5°	1.0	1.1	1.1	1.1	1.0	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	0.8
65°	0.8	0.8	0.9	0.8	0.8	0.7
65.5°	0.8	0.8	0.8	0.8	0.7	0.7
66°	0.7	0.7	0.8	0.7	0.6	0.6
66.5°	0.7	0.7	0.7	0.7	0.6	0.6
67°	0.6	0.6	0.7	0.6	0.6	0.5

TEST NUMBER: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

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°	0.5	0.5	0.5	0.5	0.4	0.4
69.5°	0.4	0.4	0.5	0.4	0.4	0.4
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	0.4	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°	0.3	0.3	0.3	0.3	0.2	0.2
73.5°	0.2	0.2	0.3	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	0.2	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	0.1	0.0
80.5°	0.1	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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	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	0.1	0.1	0.0	0.0	0.0
131°	0.1	0.1	0.1	0.1	0.1	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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

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°	0.2	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°	0.3	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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

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	0.2	0.2	0.1
158.5°	0.3	0.1	0.1	0.2	0.2	0.2
159°	0.3	0.1	0.1	0.2	0.2	0.2
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	0.2	0.2	0.2	0.2
161.5°	0.3	0.1	0.2	0.2	0.2	0.2
162°	0.3	0.1	0.2	0.2	0.2	0.2
162.5°	0.3	0.1	0.2	0.2	0.2	0.2
163°	0.3	0.1	0.2	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	0.2	0.2	0.2	0.2
170.5°	0.3	0.1	0.2	0.2	0.2	0.2
171°	0.3	0.1	0.2	0.2	0.2	0.2
171.5°	0.3	0.1	0.2	0.2	0.2	0.2
172°	0.3	0.1	0.2	0.2	0.2	0.2
172.5°	0.3	0.1	0.2	0.2	0.2	0.2
173°	0.3	0.1	0.2	0.2	0.2	0.2
173.5°	0.2	0.1	0.2	0.2	0.2	0.2
174°	0.2	0.1	0.2	0.2	0.2	0.2
174.5°	0.2	0.1	0.2	0.2	0.2	0.2
175°	0.2	0.2	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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

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: P1590535

CATALOG NUMBER: HCDLS510CSD4TRMW-LO-4000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.1	1.2	0.5	1.5	1.8	1.1	2.2	1.5	2.5	2.8
	3H	0.1	1.0	0.4	1.3	1.7	1.1	2.0	1.4	2.3	2.7
	4H	0.0	0.8	0.4	1.2	1.6	1.0	1.8	1.4	2.2	2.6
	6H	0.0	0.7	0.3	1.0	1.4	0.9	1.7	1.3	2.0	2.4
	8H	0.0	0.6	0.3	1.0	1.4	0.8	1.6	1.3	2.0	2.4
	12H	0.0	0.5	0.2	0.9	1.3	0.8	1.5	1.2	1.9	2.3
4H	2H	0.0	0.8	0.4	1.1	1.5	0.9	1.8	1.3	2.1	2.5
	3H	0.0	0.6	0.3	1.0	1.4	0.9	1.6	1.3	2.0	2.4
	4H	0.0	0.4	0.3	0.9	1.3	0.8	1.4	1.2	1.8	2.3
	6H	0.0	0.2	0.2	0.7	1.2	0.7	1.2	1.2	1.7	2.2
	8H	0.0	0.1	0.1	0.6	1.1	0.6	1.1	1.1	1.6	2.0
	12H	0.0	0.0	0.1	0.5	1.0	0.6	1.0	1.1	1.5	2.0
8H	4H	0.0	0.1	0.1	0.6	1.1	0.6	1.1	1.1	1.6	2.0
	6H	0.0	0.0	0.1	0.4	0.9	0.5	0.9	1.0	1.4	1.9
	8H	0.0	0.0	0.0	0.4	0.9	0.5	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	1.8
12H	4H	0.0	0.0	0.1	0.5	1.0	0.6	1.0	1.1	1.5	2.0
	6H	0.0	0.0	0.0	0.3	0.9	0.5	0.8	1.0	1.3	1.8
	8H	0.0	0.0	0.0	0.2	0.8	0.4	0.7	0.9	1.2	1.8



(END OF REPORT)