

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: P1590520

Luminaire Tested: HCDLS510CSD4TRH-LO-4000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590520
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: HCDLS510CSD4TRH-LO-4000K
Description: 4" Selectable Round Trim+ Haze (Semi-specular) 500 Lumens 4000K

Light Source:
Ballast/Driver: -

Summary

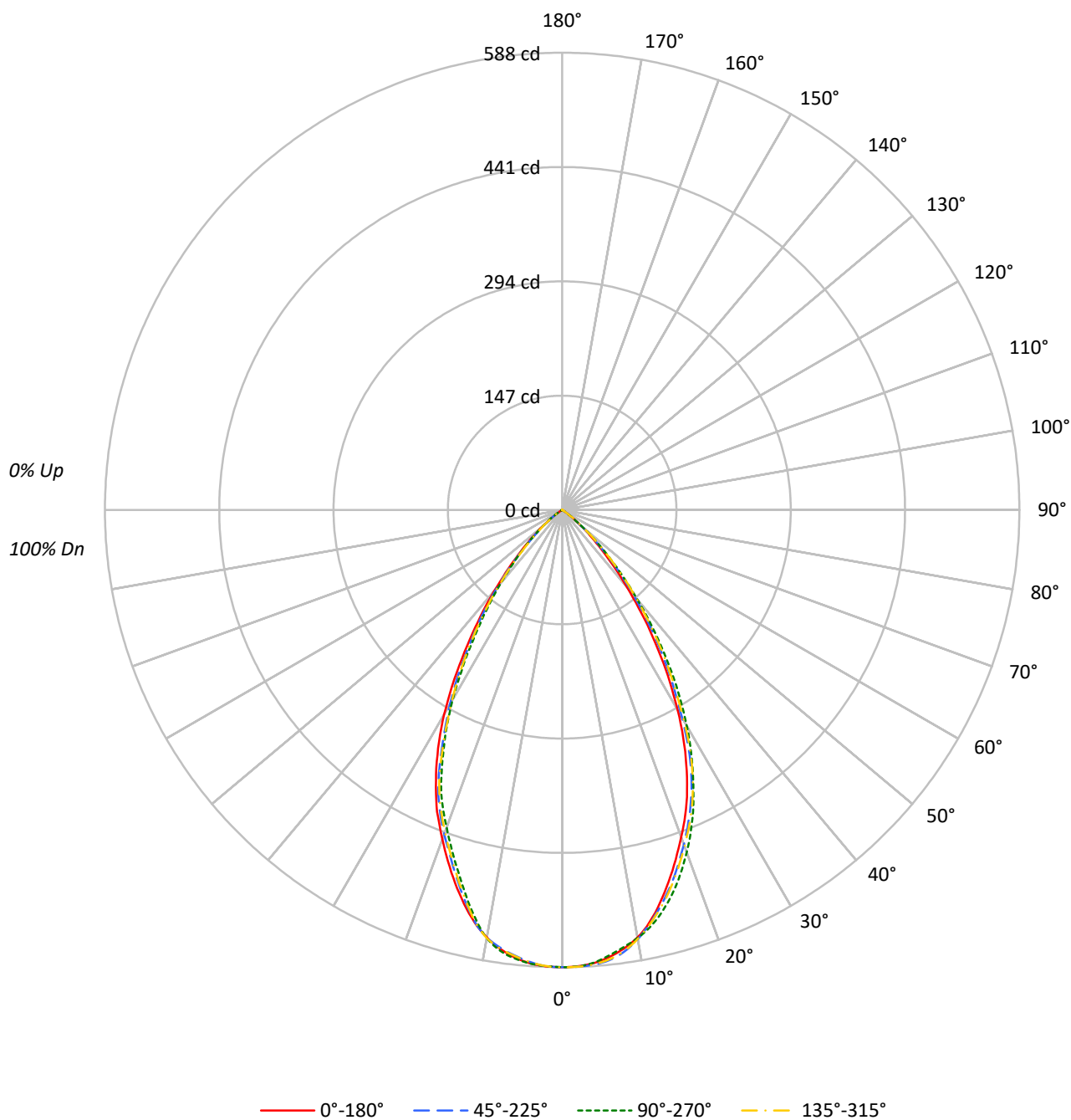
Lumens per Lamp: N/A
Luminaire Lumens: 575.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9
Total Harmonic Distortion (THDi): =20%
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°	72527	72527	72527	72527
5°	71987	71826	72061	72160
10°	69914	70014	69901	70001
15°	64998	66824	65215	63542
20°	58779	61483	59160	57033
25°	51662	54371	52275	49798
30°	42272	45662	43184	40036
35°	31380	35325	32043	29092
40°	20932	24330	21769	19660
45°	12280	14740	12996	12001
50°	6006	6889	6428	6179
55°	1957	2086	2086	2107
60°	469	518	469	518
65°	233	263	233	263
70°	144	144	144	144
75°	95	95	95	95
80°	0	71	71	71
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 14740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	9.5
10°-20°	142.4	24.8
20°-30°	174.0	30.3
30°-40°	132.5	23.0
40°-50°	59.1	10.3
50°-60°	10.7	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°	371.2	64.6
0°-40°	503.7	87.6
0°-60°	573.5	99.7
0°-90°	574.6	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	575.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	588	588	588	588	588	
5°	581	580	582	583	581	55
15°	509	523	511	498	509	142
25°	380	400	384	366	380	173
35°	208	235	213	193	208	130
45°	70	84	74	69	70	56
55°	9	10	10	10	9	10
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°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
0.5°	588.1	587.9	587.9	588.1	587.9	587.9	588.2	588.1	588.1	587.9	587.9
1°	587.8	587.8	587.9	588.1	587.9	587.9	588.0	588.0	587.9	587.7	587.7
1.5°	587.5	587.6	587.8	587.9	587.7	587.8	587.9	587.8	587.7	587.4	587.4
2°	587.1	587.3	587.7	587.6	587.3	587.5	587.7	587.6	587.3	586.8	586.9
2.5°	586.6	587.1	587.4	587.2	586.8	586.9	587.5	587.3	586.7	586.2	586.3
3°	586.0	586.8	587.1	586.5	586.0	586.3	586.9	586.9	586.2	585.3	585.4
3.5°	585.1	586.4	586.6	585.8	585.0	585.5	586.4	586.4	585.5	584.2	584.3
4°	584.1	585.9	586.2	584.7	583.6	584.4	585.8	585.9	584.5	582.9	583.0
4.5°	582.8	585.2	585.6	583.4	581.9	583.0	584.9	585.2	583.4	581.3	581.6
5°	581.4	584.3	584.5	581.8	580.1	581.3	583.8	584.4	582.0	579.6	580.0
5.5°	579.8	583.1	583.4	580.2	578.2	579.5	582.6	583.2	580.6	577.8	578.3
6°	578.1	581.7	582.0	578.3	576.1	577.6	581.1	581.9	578.8	575.8	576.5
6.5°	576.2	580.0	580.4	576.4	574.0	575.5	579.4	580.3	576.9	573.9	574.7
7°	574.2	578.0	578.4	574.3	571.9	573.5	577.4	578.4	574.8	571.8	572.9
7.5°	572.0	575.7	576.1	572.1	569.9	571.3	575.3	576.2	572.6	569.6	570.8
8°	569.8	573.3	573.5	569.6	567.7	569.0	572.8	573.5	570.1	567.5	568.8
8.5°	567.2	570.4	570.7	567.1	565.6	566.8	570.0	570.8	567.4	565.1	566.5
9°	564.4	567.3	567.5	564.5	563.5	564.2	566.9	567.6	564.6	562.6	564.0
9.5°	561.4	563.8	564.1	561.6	561.3	561.6	563.7	564.1	561.6	559.8	561.3
10°	558.2	560.1	560.4	558.6	559.0	558.8	560.1	560.4	558.1	556.9	558.3
10.5°	554.7	556.2	556.4	555.3	556.4	555.9	556.4	556.3	554.5	553.5	554.7
11°	550.8	552.0	552.2	551.9	553.6	552.7	552.4	552.2	550.6	549.9	550.7
11.5°	546.5	547.4	548.0	548.3	550.6	549.4	548.3	547.9	546.5	545.8	546.3
12°	541.7	542.7	543.5	544.2	547.5	545.8	544.2	543.4	542.1	541.1	541.1
12.5°	536.8	537.9	538.8	540.4	543.9	541.9	539.9	538.7	537.2	536.1	535.3
13°	531.5	533.0	534.1	536.1	540.3	538.0	535.4	533.8	532.5	530.8	529.7
13.5°	526.1	527.8	529.3	531.9	536.3	534.0	530.8	529.0	527.3	525.2	523.7
14°	520.5	522.5	524.5	527.3	532.1	529.6	526.1	523.8	522.0	519.5	517.5
14.5°	514.8	517.1	519.5	522.8	527.7	525.2	521.1	518.7	516.3	513.6	511.3
15°	509.0	511.6	514.3	518.0	523.3	520.4	516.4	513.4	510.7	507.6	504.9
15.5°	502.9	506.0	509.1	513.0	518.6	515.6	511.2	508.0	505.0	501.5	498.4
16°	497.0	500.2	503.7	507.6	513.7	510.6	505.9	502.4	499.2	495.2	492.0
16.5°	491.0	494.6	498.3	502.4	508.6	505.4	500.4	496.7	493.2	489.0	485.8
17°	484.9	488.8	492.7	497.0	503.4	500.0	494.8	491.0	487.2	482.7	479.5
17.5°	478.7	482.9	486.9	491.5	498.0	494.5	489.3	485.0	481.1	476.5	473.2
18°	472.5	476.9	481.0	485.6	492.2	489.0	483.4	479.1	475.1	470.4	467.0
18.5°	466.3	470.8	475.2	479.8	486.5	483.1	477.6	473.2	469.0	464.2	460.9
19°	460.1	464.7	469.5	474.0	480.5	477.3	471.9	467.3	462.7	458.2	454.8
19.5°	454.0	458.7	463.6	468.0	474.6	471.4	466.1	461.2	456.7	452.2	449.3
20°	447.8	452.5	457.6	462.0	468.4	465.5	460.3	455.4	450.7	446.2	443.4
20.5°	441.7	446.6	451.7	456.0	462.3	459.5	454.3	449.6	444.5	440.2	437.6
21°	435.5	440.3	445.6	449.8	456.1	453.2	448.3	443.6	438.2	434.2	431.7
21.5°	429.4	434.2	439.6	443.5	449.4	446.7	442.4	437.6	432.0	428.2	425.8
22°	422.9	427.8	433.3	436.9	442.7	440.2	436.5	431.7	425.8	422.2	419.3

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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°	416.4	421.6	427.0	430.6	436.0	433.7	430.5	425.7	420.1	415.6	412.9
23°	409.4	414.9	420.6	423.5	429.4	427.2	424.6	419.0	413.3	408.5	406.3
23.5°	402.4	408.3	414.2	416.8	422.7	420.7	417.9	412.5	406.2	401.4	399.2
24°	394.9	401.4	407.4	409.4	414.9	413.5	411.3	405.8	399.0	394.2	391.5
24.5°	387.4	394.3	400.7	402.3	407.4	406.2	404.5	398.8	391.6	386.4	383.5
25°	379.6	386.9	393.7	394.6	399.5	398.7	397.5	391.8	384.1	378.6	375.2
25.5°	371.9	379.5	386.5	387.3	391.9	391.2	390.3	384.6	376.6	370.5	366.5
26°	364.1	371.8	379.1	379.5	384.2	383.5	383.0	377.2	369.0	362.4	357.4
26.5°	356.5	364.0	371.4	371.7	376.4	375.7	375.2	369.3	361.1	354.1	348.3
27°	348.3	356.1	363.1	363.9	368.5	367.8	367.2	361.4	353.3	345.6	339.3
27.5°	340.2	348.1	354.5	355.9	360.9	360.1	359.1	353.3	345.5	336.9	330.6
28°	331.8	340.0	345.6	347.7	353.1	352.2	350.2	344.9	337.3	328.3	321.9
28.5°	323.4	331.2	336.3	339.3	345.3	344.0	341.4	336.4	329.1	319.6	313.2
29°	314.6	322.8	327.0	331.0	337.3	336.0	332.3	327.5	320.6	311.1	305.0
29.5°	306.0	314.0	317.3	322.6	329.2	327.6	322.9	318.3	311.9	302.6	296.7
30°	296.8	304.9	307.8	313.8	320.6	319.2	313.2	308.8	303.2	294.2	288.3
30.5°	287.9	295.4	298.5	304.7	312.1	310.3	303.6	299.3	294.1	285.6	279.9
31°	279.0	286.2	289.4	295.7	303.5	301.6	294.4	289.7	285.2	277.3	271.3
31.5°	270.3	276.5	280.5	286.6	294.9	292.7	285.4	280.1	276.0	269.0	262.7
32°	261.4	267.1	271.9	277.4	286.2	283.7	276.7	270.9	267.3	260.8	254.0
32.5°	252.9	257.6	263.4	268.4	277.8	274.7	268.0	261.9	257.8	252.3	245.3
33°	244.3	248.8	255.2	259.4	269.4	265.5	259.9	253.1	248.6	244.2	236.6
33.5°	235.6	239.4	246.8	250.4	260.8	256.5	251.5	244.5	239.4	235.6	227.7
34°	227.1	231.0	238.5	241.9	252.1	247.8	243.4	236.1	230.6	227.2	219.4
34.5°	218.5	222.1	230.0	233.5	243.3	239.1	235.1	227.8	221.5	218.6	211.0
35°	208.4	213.7	221.5	225.3	234.6	230.6	226.9	219.7	212.8	209.8	203.1
35.5°	200.4	205.5	213.3	217.3	226.0	222.3	218.5	211.4	204.4	201.2	195.4
36°	192.5	197.3	205.2	209.6	217.1	214.1	210.2	203.1	196.3	192.8	187.8
36.5°	184.5	189.2	197.1	201.7	208.4	205.8	201.9	194.8	187.9	184.5	180.2
37°	176.5	181.0	189.0	193.7	199.8	197.8	193.7	186.6	180.0	176.4	172.9
37.5°	168.2	172.9	180.9	185.7	191.3	189.9	185.6	178.3	172.2	168.4	165.5
38°	160.1	165.5	172.8	177.8	183.0	182.1	178.0	170.4	164.5	160.7	158.2
38.5°	152.2	157.9	165.4	169.9	174.7	174.1	170.3	162.7	156.9	153.2	150.7
39°	144.7	150.7	158.2	162.3	166.7	166.7	163.1	155.2	149.6	145.9	143.6
39.5°	137.3	143.4	150.8	154.7	158.8	159.0	155.9	148.0	142.4	138.5	136.4
40°	130.0	136.5	143.7	147.3	151.1	151.6	148.8	141.2	135.2	131.3	129.5
40.5°	123.1	129.8	136.7	140.0	143.6	143.9	141.6	134.3	128.1	124.3	122.6
41°	116.4	123.1	129.7	132.9	136.2	136.7	134.6	127.6	121.3	117.5	116.0
41.5°	109.8	116.5	122.6	126.0	129.2	129.5	127.7	121.2	114.7	110.8	109.7
42°	103.6	110.4	116.0	119.3	122.2	122.6	120.8	114.9	108.3	104.3	103.6
42.5°	97.6	104.2	109.4	112.7	115.6	115.6	113.9	108.6	102.2	98.1	97.5
43°	91.8	98.2	103.0	105.9	109.0	109.0	107.3	102.6	96.3	92.1	91.5
43.5°	86.0	92.0	96.7	99.4	102.5	102.4	100.8	96.6	90.4	86.3	85.5
44°	80.7	86.3	91.0	93.1	96.2	96.2	94.6	90.9	84.9	80.8	80.1
44.5°	75.5	80.7	85.1	86.9	90.2	89.9	88.5	85.1	79.6	75.6	74.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	70.4	75.4	79.6	80.9	84.5	84.1	82.7	79.6	74.5	70.5	69.0
45.5°	65.5	70.1	74.3	74.9	78.6	78.1	77.1	74.3	69.5	65.6	63.8
46°	61.1	65.2	69.0	69.4	73.1	72.6	71.7	69.1	64.7	61.0	59.1
46.5°	56.6	60.3	63.8	64.0	67.7	67.1	66.5	64.1	60.2	57.0	54.9
47°	52.4	55.9	58.8	58.9	62.7	61.8	61.3	59.3	56.2	53.0	50.7
47.5°	48.4	51.4	54.0	53.9	58.1	57.3	56.8	55.0	52.2	48.9	46.6
48°	44.7	47.3	49.4	49.3	53.6	52.8	52.3	50.8	48.2	44.9	42.4
48.5°	41.0	43.2	45.0	45.0	49.0	48.2	47.8	46.5	44.2	40.9	39.0
49°	37.6	39.6	40.8	40.9	44.4	43.7	43.3	42.3	40.2	37.5	35.9
49.5°	34.4	36.0	36.8	37.1	39.9	39.2	38.9	38.1	36.8	34.3	33.0
50°	31.3	32.7	33.0	33.4	35.9	35.4	35.1	34.5	33.5	31.4	30.3
50.5°	28.3	29.4	29.6	30.0	32.2	31.9	31.5	31.1	30.5	28.6	27.8
51°	25.7	26.4	26.5	26.8	28.8	28.6	28.3	28.0	27.5	26.0	25.4
51.5°	23.0	23.6	23.5	23.8	25.6	25.5	25.3	25.0	24.8	23.6	23.2
52°	20.6	21.1	20.8	21.1	22.6	22.6	22.4	22.3	22.1	21.2	21.0
52.5°	18.5	18.9	18.7	18.9	19.8	19.9	19.8	19.7	19.6	19.0	18.9
53°	16.5	16.8	16.6	16.7	17.3	17.5	17.4	17.3	17.2	16.9	16.9
53.5°	14.4	14.7	14.5	14.6	15.0	15.2	15.1	15.0	15.1	14.9	15.0
54°	12.3	12.5	12.4	12.4	13.0	13.2	13.1	13.0	13.1	13.0	13.2
54.5°	10.6	10.4	10.3	10.3	11.2	11.4	11.4	11.2	11.3	11.3	11.5
55°	9.1	8.9	8.8	8.8	9.7	9.8	9.8	9.7	9.7	9.7	9.9
55.5°	7.8	7.6	7.4	7.4	8.3	8.4	8.4	8.2	8.3	8.4	8.6
56°	6.4	6.2	6.1	6.1	6.9	7.0	7.0	7.3	7.3	7.4	7.2
56.5°	5.2	5.0	4.9	4.9	6.1	6.2	6.2	6.4	6.3	6.5	6.3
57°	4.2	4.1	4.0	4.0	5.3	5.4	5.4	5.5	5.2	5.6	5.4
57.5°	3.5	3.4	3.3	3.4	4.5	4.6	4.6	4.6	4.2	4.6	4.6
58°	3.0	2.9	2.8	2.9	3.7	3.8	3.8	3.8	3.2	3.7	3.7
58.5°	2.5	2.5	2.4	2.5	2.9	3.0	3.0	2.9	2.8	2.8	2.9
59°	2.2	2.2	2.1	2.2	2.6	2.7	2.6	2.5	2.4	2.4	2.5
59.5°	2.0	2.0	2.0	2.0	2.3	2.4	2.3	2.2	2.1	2.1	2.2
60°	1.9	1.8	1.8	1.9	2.1	2.1	2.1	2.0	1.9	1.9	2.0
60.5°	1.7	1.6	1.6	1.7	1.9	1.9	1.9	1.8	1.7	1.7	1.8
61°	1.5	1.4	1.4	1.5	1.7	1.8	1.7	1.6	1.6	1.5	1.6
61.5°	1.4	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.4	1.4	1.4
62°	1.2	1.2	1.2	1.3	1.4	1.5	1.4	1.4	1.3	1.3	1.3
62.5°	1.1	1.1	1.1	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2
63°	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1
63.5°	1.0	0.9	0.9	1.0	1.1	1.2	1.1	1.1	1.0	1.0	1.0
64°	0.9	0.9	0.9	0.9	1.0	1.1	1.0	1.0	0.9	0.9	1.0
64.5°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9
65°	0.8	0.7	0.7	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8
65.5°	0.7	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.7	0.7	0.8
66°	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7
66.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.7
67°	0.6	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.6	0.6	0.6	0.6
68°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5
68.5°	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
69°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5
69.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4
70°	0.4	0.3	0.4	0.4	0.4	0.5	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	0.4	0.4	0.4	0.4
71°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
73.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	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°	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2	0.2	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°	0.1	0.1	0.1	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	0.1	0.1	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	0.1	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: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
130.5°	0.1	0.1	0.0	0.0	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	0.1	0.1

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.2
142°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
142.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
143°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	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	0.3	0.3	0.3
153°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
153.5°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154°	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
154.5°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.2	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
155.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
156.5°	0.2	0.2	0.1	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3
157°	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
158.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
159.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
161.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
162.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
163.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
164.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
165.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
166.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
167.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
168.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
169.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
170.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
171.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
172.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
173.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
174°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
174.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
175.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
176°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
176.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	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: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	588.0	588.0	588.0	588.0	588.0	588.0
0.5°	588.0	587.6	587.8	588.0	588.0	588.1
1°	587.9	587.5	587.7	587.8	587.7	587.8
1.5°	587.6	587.2	587.5	587.4	587.3	587.5
2°	587.3	586.9	587.0	586.8	586.7	587.1
2.5°	586.7	586.5	586.5	586.2	586.1	586.6
3°	586.2	586.2	586.0	585.3	585.1	586.0
3.5°	585.5	585.6	585.2	584.3	583.9	585.1
4°	584.6	584.8	584.4	583.0	582.6	584.1
4.5°	583.4	583.9	583.3	581.7	581.2	582.8
5°	582.1	582.8	582.2	580.1	579.5	581.4
5.5°	580.9	581.6	580.9	578.6	577.8	579.8
6°	579.4	580.2	579.5	577.0	575.9	578.1
6.5°	577.7	578.7	577.9	575.3	574.2	576.2
7°	575.9	576.8	576.2	573.6	572.3	574.2
7.5°	574.0	574.8	574.1	571.8	570.4	572.0
8°	571.9	572.4	571.9	569.6	568.4	569.8
8.5°	569.6	569.8	569.3	567.5	566.2	567.2
9°	566.9	566.6	566.4	565.0	563.8	564.4
9.5°	563.9	563.0	563.1	562.2	561.1	561.4
10°	560.4	558.9	559.2	558.8	558.1	558.2
10.5°	556.3	554.3	554.7	555.1	554.8	554.7
11°	551.8	549.0	549.8	550.8	551.1	550.8
11.5°	546.5	543.2	544.1	545.9	546.8	546.5
12°	540.9	537.0	538.2	540.3	541.8	541.7
12.5°	534.8	530.8	531.9	534.6	536.4	536.8
13°	528.7	524.2	525.4	528.4	531.0	531.5
13.5°	522.4	517.9	518.9	522.1	525.2	526.1
14°	515.9	511.1	512.3	515.7	519.1	520.5
14.5°	509.2	504.4	505.6	509.3	513.0	514.8
15°	502.6	497.6	498.9	502.6	506.7	509.0
15.5°	496.2	491.0	492.3	496.4	500.3	502.9
16°	489.8	484.6	486.0	489.9	493.9	497.0
16.5°	483.3	478.4	479.7	483.6	487.9	491.0
17°	477.1	471.9	473.2	477.4	481.5	484.9
17.5°	471.0	465.6	467.2	471.1	475.4	478.7
18°	464.8	459.3	460.8	464.9	469.1	472.5
18.5°	458.5	453.0	454.5	458.8	462.9	466.3
19°	452.6	446.8	448.5	452.6	456.5	460.1
19.5°	446.8	440.5	442.5	446.6	450.4	454.0
20°	440.9	434.5	436.6	440.5	444.2	447.8
20.5°	435.1	428.3	430.5	434.7	438.1	441.7
21°	429.3	422.4	424.5	428.5	431.9	435.5
21.5°	423.5	416.3	418.5	422.4	425.6	429.4
22°	417.6	410.3	412.6	416.2	419.5	422.9

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	411.4	404.0	406.2	410.1	412.9	416.4
23°	404.7	397.4	399.5	403.4	406.0	409.4
23.5°	397.4	390.2	392.4	396.3	399.1	402.4
24°	390.0	382.4	384.8	388.8	391.6	394.9
24.5°	382.4	373.9	377.0	380.7	383.7	387.4
25°	374.3	365.9	368.8	372.3	375.4	379.6
25.5°	365.9	357.6	360.5	363.6	367.1	371.9
26°	357.5	349.5	352.1	354.6	358.6	364.1
26.5°	348.8	341.0	343.5	345.6	349.8	356.5
27°	339.8	333.0	334.9	336.5	340.6	348.3
27.5°	330.7	324.8	325.9	327.3	331.7	340.2
28°	321.3	316.3	317.0	318.3	323.2	331.8
28.5°	312.1	307.8	308.2	309.4	314.7	323.4
29°	303.2	299.1	299.4	300.7	306.4	314.6
29.5°	294.4	290.2	290.6	292.1	298.2	306.0
30°	285.6	281.1	281.5	283.7	290.2	296.8
30.5°	276.8	271.7	272.5	275.2	281.8	287.9
31°	268.3	262.8	263.5	266.7	273.6	279.0
31.5°	259.7	253.6	254.7	258.2	265.1	270.3
32°	251.3	244.7	246.0	249.7	256.4	261.4
32.5°	242.9	235.9	237.3	241.2	247.8	252.9
33°	234.5	227.3	228.9	232.6	239.0	244.3
33.5°	226.0	218.5	220.7	223.9	230.1	235.6
34°	217.7	208.8	213.0	215.6	221.3	227.1
34.5°	209.4	201.0	204.9	207.7	212.7	218.5
35°	201.4	193.2	196.9	199.8	204.7	208.4
35.5°	193.3	185.5	188.8	191.8	196.6	200.4
36°	185.6	177.7	180.8	183.9	188.5	192.5
36.5°	177.8	170.2	172.7	176.0	180.4	184.5
37°	170.1	162.7	165.1	168.6	172.4	176.5
37.5°	162.6	155.5	157.5	161.2	164.9	168.2
38°	155.2	148.6	150.1	154.1	157.4	160.1
38.5°	148.1	141.8	142.9	146.9	150.0	152.2
39°	141.2	135.2	136.3	139.9	142.7	144.7
39.5°	134.3	128.6	129.6	132.8	135.5	137.3
40°	127.4	122.1	123.1	125.9	128.3	130.0
40.5°	120.9	115.9	116.8	119.1	121.0	123.1
41°	114.5	109.9	110.8	112.5	114.3	116.4
41.5°	108.4	104.2	104.9	106.2	107.5	109.8
42°	102.3	98.6	99.1	100.0	101.1	103.6
42.5°	96.4	93.2	93.5	93.8	94.8	97.6
43°	90.8	88.1	88.1	88.2	88.9	91.8
43.5°	85.3	83.0	82.9	82.4	83.1	86.0
44°	80.2	78.1	77.9	76.9	77.6	80.7
44.5°	75.2	73.4	73.1	71.6	72.3	75.5

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	70.3	68.8	68.4	66.5	67.1	70.4
45.5°	65.7	64.5	64.0	61.6	62.3	65.5
46°	61.2	60.3	59.8	57.0	57.7	61.1
46.5°	57.0	56.2	55.7	52.6	53.2	56.6
47°	53.2	52.3	51.7	48.6	49.0	52.4
47.5°	49.4	48.5	47.9	44.8	45.1	48.4
48°	45.5	44.9	44.4	41.3	41.6	44.7
48.5°	41.7	41.6	41.0	38.0	38.2	41.0
49°	38.3	38.3	37.7	35.1	35.0	37.6
49.5°	35.1	35.2	34.6	32.3	32.3	34.4
50°	32.2	32.2	31.6	29.7	29.6	31.3
50.5°	29.4	29.3	28.8	27.2	27.1	28.3
51°	26.8	26.6	26.2	24.9	24.7	25.7
51.5°	24.3	24.0	23.7	22.7	22.5	23.0
52°	21.9	21.6	21.4	20.5	20.5	20.6
52.5°	19.6	19.6	19.4	18.6	18.6	18.5
53°	17.5	17.5	17.4	16.7	16.6	16.5
53.5°	15.5	15.5	15.4	14.8	14.6	14.4
54°	13.6	13.4	13.4	12.9	12.6	12.3
54.5°	11.8	11.4	11.4	11.2	10.9	10.6
55°	10.3	9.8	9.9	9.8	9.4	9.1
55.5°	8.9	8.5	8.6	8.4	8.1	7.8
56°	7.5	7.1	7.2	7.1	6.8	6.4
56.5°	6.6	5.8	6.0	5.8	5.5	5.2
57°	5.7	4.8	4.9	4.7	4.5	4.2
57.5°	4.8	4.0	4.1	4.0	3.7	3.5
58°	3.9	3.4	3.5	3.4	3.2	3.0
58.5°	3.1	3.0	3.0	2.9	2.7	2.5
59°	2.6	2.6	2.7	2.6	2.4	2.2
59.5°	2.3	2.3	2.4	2.3	2.1	2.0
60°	2.1	2.1	2.1	2.1	1.9	1.9
60.5°	1.9	2.0	2.0	2.0	1.8	1.7
61°	1.7	1.8	1.8	1.8	1.6	1.5
61.5°	1.5	1.6	1.7	1.6	1.5	1.4
62°	1.4	1.5	1.5	1.4	1.3	1.2
62.5°	1.3	1.3	1.4	1.3	1.2	1.1
63°	1.2	1.2	1.3	1.2	1.1	1.0
63.5°	1.1	1.1	1.2	1.1	1.0	1.0
64°	1.0	1.1	1.1	1.0	0.9	0.9
64.5°	0.9	1.0	1.0	1.0	0.9	0.8
65°	0.9	0.9	0.9	0.9	0.8	0.8
65.5°	0.8	0.8	0.9	0.8	0.8	0.7
66°	0.8	0.8	0.8	0.8	0.7	0.7
66.5°	0.7	0.7	0.8	0.7	0.6	0.6
67°	0.7	0.7	0.7	0.7	0.6	0.6

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.6	0.6	0.7	0.6	0.6	0.5
68°	0.6	0.6	0.6	0.6	0.5	0.5
68.5°	0.5	0.5	0.6	0.5	0.5	0.4
69°	0.5	0.5	0.5	0.5	0.4	0.4
69.5°	0.5	0.5	0.5	0.5	0.4	0.4
70°	0.4	0.4	0.5	0.4	0.4	0.4
70.5°	0.4	0.4	0.4	0.4	0.4	0.3
71°	0.4	0.4	0.4	0.4	0.3	0.3
71.5°	0.3	0.4	0.4	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.2
73°	0.3	0.3	0.3	0.3	0.2	0.2
73.5°	0.2	0.3	0.3	0.3	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	0.2
75.5°	0.2	0.2	0.2	0.2	0.2	0.1
76°	0.2	0.2	0.2	0.2	0.1	0.1
76.5°	0.1	0.2	0.2	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	0.1
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	0.1	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: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.1	0.0	0.0	0.0	0.0	0.0
130°	0.1	0.1	0.1	0.1	0.0	0.0
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°	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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°	0.2	0.1	0.1	0.1	0.1	0.1
142°	0.2	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°	0.3	0.1	0.1	0.1	0.1	0.1
153°	0.3	0.1	0.1	0.1	0.1	0.1
153.5°	0.3	0.1	0.1	0.1	0.1	0.1
154°	0.3	0.1	0.1	0.2	0.2	0.1
154.5°	0.3	0.1	0.1	0.2	0.2	0.2
155°	0.3	0.1	0.2	0.2	0.2	0.2
155.5°	0.3	0.1	0.2	0.2	0.2	0.2
156°	0.3	0.2	0.2	0.2	0.2	0.2
156.5°	0.3	0.2	0.2	0.2	0.2	0.2
157°	0.3	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-LO-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.3	0.2	0.2	0.2	0.2	0.2
158°	0.3	0.2	0.2	0.2	0.2	0.2
158.5°	0.3	0.2	0.2	0.2	0.2	0.2
159°	0.3	0.2	0.2	0.2	0.2	0.2
159.5°	0.3	0.2	0.2	0.2	0.2	0.2
160°	0.3	0.2	0.2	0.2	0.2	0.2
160.5°	0.3	0.2	0.2	0.2	0.2	0.2
161°	0.3	0.2	0.2	0.2	0.2	0.2
161.5°	0.3	0.2	0.2	0.2	0.2	0.2
162°	0.3	0.2	0.2	0.2	0.2	0.2
162.5°	0.3	0.2	0.2	0.2	0.2	0.2
163°	0.3	0.2	0.2	0.2	0.2	0.2
163.5°	0.3	0.2	0.2	0.2	0.2	0.2
164°	0.3	0.2	0.2	0.2	0.2	0.2
164.5°	0.3	0.2	0.2	0.2	0.2	0.2
165°	0.3	0.2	0.2	0.2	0.2	0.2
165.5°	0.3	0.2	0.2	0.2	0.2	0.2
166°	0.3	0.2	0.2	0.2	0.2	0.2
166.5°	0.3	0.2	0.2	0.2	0.2	0.2
167°	0.3	0.2	0.2	0.2	0.2	0.2
167.5°	0.3	0.2	0.2	0.2	0.2	0.2
168°	0.3	0.2	0.2	0.2	0.2	0.2
168.5°	0.3	0.2	0.2	0.2	0.2	0.2
169°	0.3	0.2	0.2	0.2	0.2	0.2
169.5°	0.3	0.2	0.2	0.2	0.2	0.2
170°	0.3	0.2	0.2	0.2	0.2	0.2
170.5°	0.3	0.2	0.2	0.2	0.2	0.2
171°	0.3	0.2	0.2	0.2	0.2	0.2
171.5°	0.3	0.2	0.2	0.2	0.2	0.2
172°	0.3	0.2	0.2	0.2	0.2	0.2
172.5°	0.3	0.2	0.2	0.2	0.2	0.2
173°	0.3	0.2	0.2	0.2	0.2	0.2
173.5°	0.3	0.2	0.2	0.2	0.2	0.2
174°	0.3	0.2	0.2	0.2	0.2	0.2
174.5°	0.3	0.2	0.2	0.2	0.2	0.2
175°	0.3	0.2	0.2	0.2	0.2	0.2
175.5°	0.3	0.2	0.2	0.2	0.2	0.2
176°	0.3	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: P1590520
CATALOG NUMBER: HCDLS510CSD4TRH-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: P1590520

CATALOG NUMBER: HCDLS510CSD4TRH-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	0.4	1.5	0.8	1.8	2.1	1.4	2.5	1.8	2.8	3.1
	3H	0.4	1.3	0.7	1.6	2.0	1.3	2.3	1.7	2.6	3.0
	4H	0.3	1.1	0.7	1.5	1.9	1.3	2.1	1.7	2.5	2.9
	6H	0.2	1.0	0.6	1.3	1.7	1.2	1.9	1.6	2.3	2.7
	8H	0.1	0.9	0.6	1.3	1.7	1.1	1.8	1.6	2.2	2.6
	12H	0.1	0.8	0.5	1.2	1.6	1.1	1.8	1.5	2.1	2.6
4H	2H	0.3	1.1	0.7	1.5	1.8	1.2	2.1	1.6	2.4	2.8
	3H	0.2	0.9	0.6	1.3	1.7	1.2	1.8	1.6	2.3	2.7
	4H	0.1	0.7	0.6	1.1	1.6	1.1	1.7	1.5	2.1	2.6
	6H	0.0	0.5	0.5	1.0	1.5	1.0	1.5	1.5	2.0	2.4
	8H	0.0	0.4	0.4	0.9	1.4	0.9	1.4	1.4	1.8	2.3
	12H	0.0	0.3	0.4	0.8	1.3	0.9	1.3	1.3	1.8	2.2
8H	4H	0.0	0.4	0.4	0.9	1.4	0.9	1.4	1.4	1.8	2.3
	6H	0.0	0.2	0.4	0.7	1.2	0.8	1.2	1.3	1.7	2.2
	8H	0.0	0.1	0.3	0.6	1.1	0.7	1.1	1.3	1.6	2.1
	12H	0.0	0.0	0.2	0.5	1.1	0.7	1.0	1.2	1.5	2.1
12H	4H	0.0	0.3	0.4	0.8	1.3	0.9	1.3	1.3	1.8	2.2
	6H	0.0	0.1	0.3	0.6	1.2	0.7	1.1	1.3	1.6	2.1
	8H	0.0	0.0	0.2	0.5	1.1	0.7	1.0	1.2	1.5	2.1

(END OF REPORT)