

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: P1590503

Luminaire Tested: HCDLS510CSD4TRC-LO-3000K

Issue Date: 9/4/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590503
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: HCDLS510CSD4TRC-LO-3000K
Description: 4" Selectable Round Trim + Specular Clear 500 Lumens 3000K

Light Source:
Ballast/Driver: -

Summary

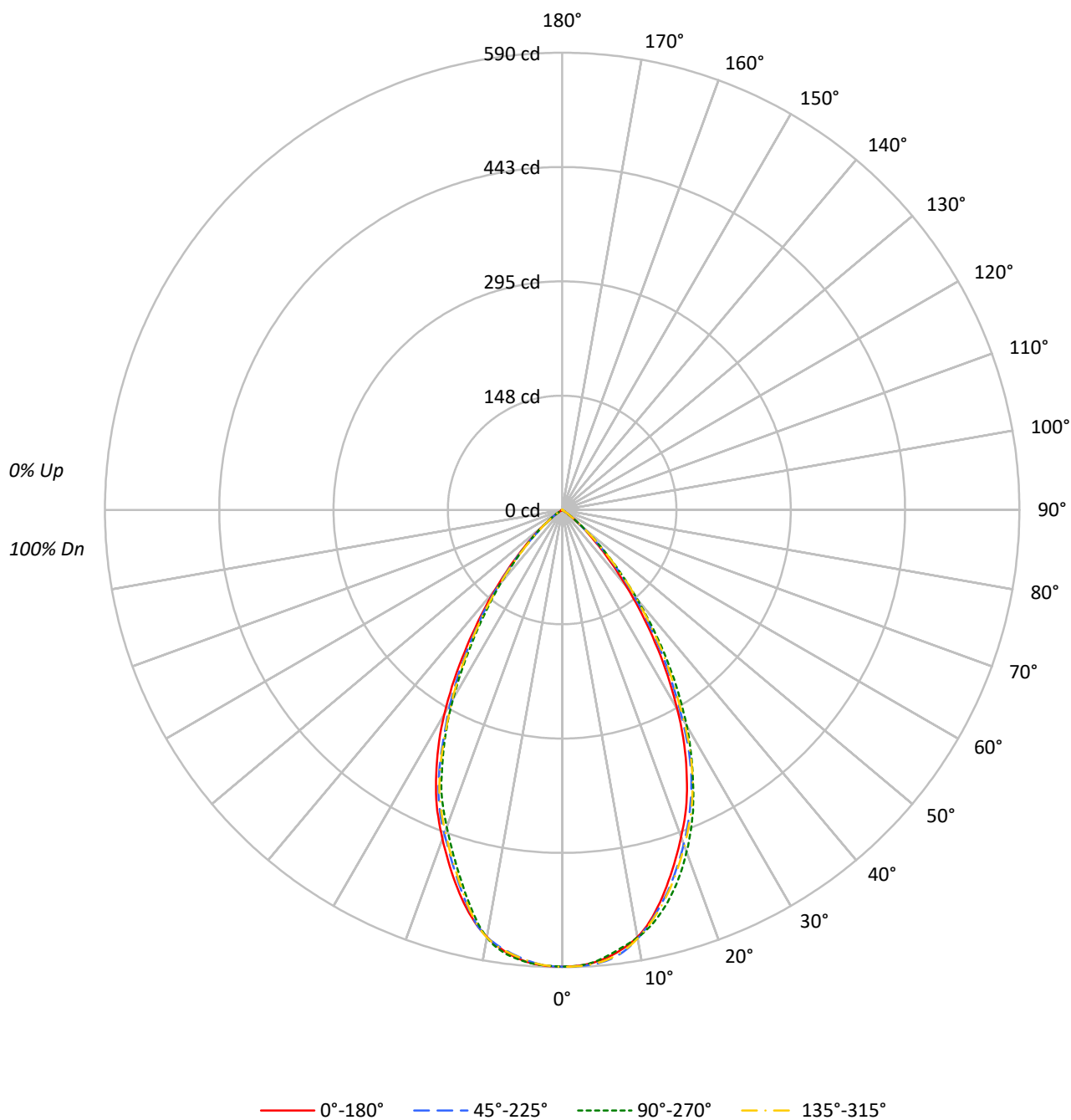
Lumens per Lamp: N/A
Luminaire Lumens: 576.3 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: HCDLS510CSD4TRC-LO-3000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	113	110	108	106	111	108	106	104		104	102	101			100	99	98			93
2	107	102	98	95	105	101	97	94		97	94	91			94	92	90			86
3	102	95	90	86	100	94	89	85		91	87	84			88	85	82			79
4	96	88	82	78	94	87	82	78		85	80	77			83	79	76			73
5	91	82	76	72	89	81	76	71		79	74	71			78	73	70			68
6	86	77	71	66	85	76	70	66		74	69	65			73	68	65			63
7	82	72	66	61	80	71	65	61		70	65	61			69	64	60			58
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			55
9	73	63	57	53	72	63	57	53		62	56	53			61	56	53			51
10	70	60	54	50	69	59	53	50		58	53	49			58	53	49			48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	72688	72688	72688	72688
5°	72148	71987	72235	72321
10°	70076	70164	70064	70152
15°	65138	66977	65368	63682
20°	58910	61627	59291	57164
25°	51771	54493	52397	49907
30°	42358	45762	43284	40136
35°	31456	35416	32118	29167
40°	20980	24378	21818	19692
45°	12315	14757	13013	12036
50°	6025	6908	6448	6198
55°	1957	2086	2086	2129
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: 14757 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	9.5
10°-20°	142.7	24.8
20°-30°	174.3	30.3
30°-40°	132.8	23.0
40°-50°	59.2	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°	372.0	64.6
0°-40°	504.8	87.6
0°-60°	574.8	99.7
0°-90°	575.9	99.9
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	576.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	589	589	589	589	589	
5°	583	581	583	584	583	55
15°	510	524	512	499	510	142
25°	380	400	385	367	380	173
35°	209	235	213	194	209	131
45°	71	85	75	69	71	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

TEST NUMBER: P1590503

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3
0.5°	589.4	589.2	589.3	589.4	589.2	589.3	589.5	589.4	589.4	589.2	589.2
1°	589.2	589.2	589.3	589.4	589.2	589.3	589.4	589.4	589.2	589.0	589.0
1.5°	588.8	588.9	589.2	589.2	589.0	589.2	589.2	589.2	589.0	588.7	588.7
2°	588.4	588.6	589.0	588.9	588.6	588.8	589.0	588.9	588.6	588.1	588.2
2.5°	587.9	588.4	588.7	588.5	588.1	588.3	588.8	588.6	588.1	587.5	587.6
3°	587.3	588.1	588.4	587.9	587.3	587.7	588.3	588.3	587.5	586.6	586.7
3.5°	586.4	587.8	588.0	587.1	586.3	586.8	587.7	587.8	586.8	585.5	585.6
4°	585.4	587.2	587.6	586.0	584.9	585.7	587.1	587.2	585.8	584.2	584.3
4.5°	584.1	586.5	586.9	584.8	583.3	584.3	586.3	586.5	584.8	582.6	582.9
5°	582.7	585.6	585.8	583.2	581.4	582.6	585.2	585.7	583.4	580.9	581.3
5.5°	581.1	584.4	584.7	581.5	579.5	580.8	583.9	584.5	581.9	579.1	579.6
6°	579.4	583.0	583.3	579.6	577.4	578.9	582.4	583.2	580.1	577.1	577.8
6.5°	577.5	581.3	581.7	577.7	575.3	576.8	580.7	581.6	578.2	575.2	576.0
7°	575.5	579.3	579.7	575.6	573.2	574.8	578.8	579.7	576.1	573.1	574.1
7.5°	573.3	577.0	577.4	573.4	571.1	572.5	576.6	577.5	573.9	570.9	572.1
8°	571.0	574.6	574.8	570.9	569.0	570.3	574.1	574.8	571.4	568.8	570.1
8.5°	568.5	571.7	572.0	568.4	566.9	568.0	571.3	572.1	568.7	566.3	567.8
9°	565.7	568.6	568.8	565.8	564.7	565.5	568.2	568.9	565.9	563.8	565.3
9.5°	562.7	565.1	565.3	562.9	562.6	562.9	564.9	565.3	562.9	561.1	562.6
10°	559.5	561.4	561.6	559.9	560.2	560.0	561.4	561.6	559.4	558.2	559.6
10.5°	556.0	557.4	557.6	556.6	557.7	557.1	557.6	557.5	555.7	554.7	555.9
11°	552.0	553.2	553.4	553.1	554.9	553.9	553.7	553.4	551.9	551.1	551.9
11.5°	547.8	548.7	549.2	549.5	551.9	550.6	549.6	549.1	547.8	547.1	547.5
12°	542.9	544.0	544.8	545.5	548.7	547.0	545.4	544.6	543.4	542.4	542.3
12.5°	538.0	539.1	540.0	541.6	545.1	543.1	541.1	539.9	538.4	537.3	536.5
13°	532.7	534.2	535.3	537.4	541.5	539.2	536.6	535.0	533.7	532.0	530.9
13.5°	527.3	529.0	530.5	533.1	537.5	535.2	532.0	530.2	528.4	526.4	524.9
14°	521.7	523.6	525.7	528.5	533.3	530.8	527.3	525.0	523.2	520.7	518.7
14.5°	516.0	518.3	520.7	523.9	528.9	526.4	522.3	519.9	517.5	514.7	512.5
15°	510.1	512.8	515.5	519.1	524.5	521.6	517.5	514.6	511.9	508.7	506.0
15.5°	504.1	507.1	510.3	514.1	519.8	516.8	512.3	509.2	506.2	502.6	499.5
16°	498.1	501.4	504.9	508.7	514.8	511.7	507.1	503.6	500.3	496.3	493.2
16.5°	492.2	495.7	499.4	503.6	509.8	506.5	501.5	497.9	494.3	490.1	486.9
17°	486.0	489.9	493.8	498.1	504.5	501.1	496.0	492.1	488.3	483.8	480.6
17.5°	479.8	484.0	488.0	492.6	499.1	495.6	490.4	486.1	482.2	477.6	474.3
18°	473.5	478.0	482.1	486.7	493.3	490.1	484.5	480.2	476.2	471.5	468.0
18.5°	467.4	471.9	476.3	480.9	487.6	484.2	478.7	474.3	470.0	465.2	461.9
19°	461.2	465.8	470.5	475.1	481.6	478.4	472.9	468.3	463.7	459.2	455.8
19.5°	455.1	459.7	464.6	469.1	475.7	472.4	467.1	462.2	457.7	453.2	450.3
20°	448.8	453.5	458.7	463.1	469.5	466.5	461.3	456.4	451.7	447.2	444.4
20.5°	442.7	447.6	452.7	457.0	463.4	460.5	455.3	450.6	445.5	441.2	438.5
21°	436.5	441.3	446.6	450.8	457.1	454.2	449.4	444.6	439.2	435.2	432.7
21.5°	430.3	435.1	440.6	444.5	450.4	447.7	443.4	438.6	433.0	429.2	426.8
22°	423.9	428.7	434.2	437.9	443.7	441.2	437.5	432.6	426.7	423.2	420.3

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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°	417.4	422.6	428.0	431.5	437.0	434.7	431.5	426.6	421.0	416.5	413.9
23°	410.3	415.9	421.6	424.4	430.3	428.2	425.6	420.0	414.2	409.4	407.2
23.5°	403.3	409.2	415.1	417.8	423.6	421.7	418.8	413.5	407.2	402.3	400.1
24°	395.8	402.3	408.3	410.3	415.8	414.4	412.2	406.7	399.9	395.1	392.4
24.5°	388.3	395.2	401.6	403.2	408.3	407.1	405.4	399.7	392.5	387.3	384.4
25°	380.4	387.8	394.6	395.5	400.4	399.6	398.4	392.7	385.0	379.4	376.1
25.5°	372.7	380.4	387.4	388.2	392.8	392.1	391.2	385.5	377.4	371.3	367.4
26°	364.9	372.6	379.9	380.4	385.0	384.4	383.8	378.0	369.8	363.2	358.2
26.5°	357.3	364.8	372.3	372.6	377.2	376.6	376.1	370.1	361.9	354.9	349.1
27°	349.0	356.9	363.9	364.7	369.3	368.7	368.1	362.2	354.1	346.4	340.1
27.5°	341.0	348.9	355.3	356.7	361.7	360.9	359.9	354.1	346.3	337.6	331.3
28°	332.6	340.7	346.4	348.5	353.9	353.0	351.0	345.7	338.1	329.1	322.6
28.5°	324.1	331.9	337.1	340.1	346.0	344.8	342.2	337.1	329.8	320.3	313.9
29°	315.3	323.5	327.7	331.7	338.1	336.7	333.0	328.2	321.3	311.8	305.7
29.5°	306.7	314.7	318.0	323.3	329.9	328.4	323.7	319.0	312.6	303.3	297.3
30°	297.4	305.6	308.5	314.5	321.3	319.9	313.9	309.5	303.9	294.8	289.0
30.5°	288.6	296.1	299.1	305.4	312.8	311.1	304.3	299.9	294.8	286.3	280.5
31°	279.7	286.9	290.0	296.4	304.2	302.3	295.0	290.4	285.9	278.0	271.9
31.5°	270.9	277.1	281.1	287.3	295.6	293.4	286.0	280.7	276.6	269.6	263.3
32°	262.0	267.7	272.6	278.1	286.9	284.3	277.3	271.5	267.9	261.4	254.6
32.5°	253.4	258.1	264.0	269.0	278.4	275.3	268.6	262.5	258.4	252.9	245.9
33°	244.8	249.3	255.7	260.0	270.0	266.1	260.5	253.6	249.2	244.7	237.1
33.5°	236.2	240.0	247.3	251.0	261.4	257.1	252.1	245.0	240.0	236.2	228.2
34°	227.6	231.5	239.1	242.5	252.6	248.3	243.9	236.6	231.1	227.7	219.9
34.5°	219.0	222.6	230.5	234.0	243.9	239.7	235.7	228.3	222.0	219.1	211.4
35°	208.9	214.1	222.0	225.8	235.2	231.2	227.4	220.2	213.3	210.3	203.5
35.5°	200.9	206.0	213.7	217.8	226.5	222.8	219.0	211.9	204.9	201.7	195.8
36°	192.9	197.8	205.6	210.1	217.6	214.6	210.6	203.5	196.8	193.3	188.2
36.5°	184.9	189.6	197.5	202.1	208.9	206.3	202.3	195.2	188.4	184.9	180.6
37°	176.9	181.4	189.4	194.1	200.2	198.3	194.1	187.1	180.4	176.8	173.3
37.5°	168.6	173.3	181.3	186.2	191.7	190.3	186.0	178.7	172.6	168.7	165.8
38°	160.5	165.8	173.2	178.2	183.4	182.5	178.4	170.8	164.9	161.1	158.5
38.5°	152.6	158.2	165.7	170.3	175.1	174.5	170.7	163.1	157.3	153.6	151.1
39°	145.1	151.0	158.5	162.7	167.0	167.1	163.4	155.6	150.0	146.3	143.9
39.5°	137.6	143.7	151.2	155.1	159.1	159.3	156.2	148.4	142.7	138.8	136.8
40°	130.3	136.8	144.0	147.6	151.4	152.0	149.1	141.5	135.5	131.6	129.8
40.5°	123.4	130.1	137.0	140.3	143.9	144.3	142.0	134.6	128.4	124.6	122.9
41°	116.7	123.4	130.0	133.2	136.5	137.1	134.9	127.9	121.6	117.8	116.3
41.5°	110.1	116.8	122.9	126.3	129.4	129.8	128.0	121.4	115.0	111.1	110.0
42°	103.9	110.7	116.3	119.6	122.5	122.9	121.1	115.2	108.6	104.5	103.9
42.5°	97.9	104.5	109.7	112.9	115.8	115.9	114.2	108.9	102.4	98.3	97.7
43°	92.0	98.4	103.3	106.2	109.3	109.3	107.5	102.9	96.5	92.3	91.7
43.5°	86.2	92.3	97.0	99.7	102.8	102.6	101.1	96.8	90.6	86.5	85.7
44°	80.9	86.5	91.2	93.3	96.4	96.4	94.9	91.1	85.1	81.0	80.2
44.5°	75.6	80.9	85.3	87.1	90.4	90.1	88.7	85.3	79.7	75.7	74.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	70.6	75.6	79.8	81.0	84.6	84.3	82.9	79.8	74.6	70.6	69.1
45.5°	65.7	70.3	74.4	75.1	78.8	78.3	77.3	74.5	69.7	65.8	63.9
46°	61.2	65.3	69.1	69.5	73.3	72.8	71.8	69.3	64.8	61.1	59.2
46.5°	56.7	60.4	63.9	64.1	67.9	67.2	66.7	64.2	60.3	57.1	55.0
47°	52.5	56.0	59.0	59.0	62.9	62.0	61.5	59.4	56.3	53.1	50.8
47.5°	48.5	51.5	54.1	54.1	58.3	57.4	56.9	55.1	52.3	49.0	46.7
48°	44.8	47.4	49.5	49.5	53.7	52.9	52.4	50.9	48.3	45.0	42.5
48.5°	41.1	43.3	45.1	45.1	49.1	48.3	47.9	46.6	44.3	41.0	39.1
49°	37.7	39.7	40.9	41.0	44.5	43.8	43.4	42.4	40.3	37.6	35.9
49.5°	34.5	36.1	36.8	37.2	39.9	39.3	38.9	38.2	36.9	34.4	33.1
50°	31.4	32.8	33.1	33.5	36.0	35.5	35.2	34.6	33.6	31.5	30.4
50.5°	28.4	29.4	29.7	30.0	32.2	31.9	31.6	31.2	30.5	28.7	27.8
51°	25.7	26.5	26.5	26.8	28.8	28.7	28.3	28.0	27.6	26.1	25.5
51.5°	23.1	23.7	23.5	23.8	25.6	25.6	25.3	25.1	24.8	23.6	23.2
52°	20.7	21.1	20.9	21.1	22.7	22.7	22.5	22.3	22.2	21.3	21.1
52.5°	18.6	19.0	18.8	19.0	19.9	20.0	19.8	19.7	19.6	19.1	19.0
53°	16.5	16.8	16.6	16.8	17.4	17.5	17.4	17.3	17.3	16.9	16.9
53.5°	14.4	14.7	14.5	14.6	15.1	15.2	15.2	15.1	15.1	14.9	15.0
54°	12.3	12.6	12.4	12.4	13.0	13.2	13.2	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	9.0	8.8	8.8	9.7	9.9	9.8	9.7	9.7	9.7	10.0
55.5°	7.8	7.6	7.5	7.4	8.3	8.4	8.4	8.3	8.3	8.4	8.6
56°	6.4	6.2	6.1	6.1	6.9	7.0	7.0	7.4	7.3	7.4	7.2
56.5°	5.2	5.0	4.9	4.9	6.1	6.2	6.2	6.5	6.3	6.5	6.3
57°	4.2	4.1	4.0	4.0	5.3	5.4	5.4	5.6	5.2	5.6	5.5
57.5°	3.5	3.4	3.3	3.4	4.5	4.6	4.6	4.7	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	3.8
58.5°	2.5	2.5	2.5	2.5	2.9	3.0	3.0	2.9	2.8	2.8	2.9
59°	2.2	2.2	2.2	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	1.5
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	1.3	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.7	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	0.4	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	0.4	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	0.2	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.1	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.2
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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3000K

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	0.3	0.2
177°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	589.3	589.3	589.3	589.3	589.3	589.3
0.5°	589.4	588.9	589.2	589.4	589.3	589.4
1°	589.2	588.8	589.0	589.1	589.1	589.2
1.5°	588.9	588.5	588.8	588.7	588.6	588.8
2°	588.6	588.2	588.3	588.1	588.1	588.4
2.5°	588.1	587.9	587.9	587.5	587.4	587.9
3°	587.6	587.5	587.3	586.6	586.4	587.3
3.5°	586.8	586.9	586.6	585.6	585.2	586.4
4°	585.9	586.1	585.7	584.3	583.9	585.4
4.5°	584.7	585.2	584.7	583.0	582.5	584.1
5°	583.5	584.1	583.5	581.4	580.8	582.7
5.5°	582.2	582.9	582.2	579.9	579.1	581.1
6°	580.7	581.5	580.8	578.3	577.3	579.4
6.5°	579.0	580.0	579.2	576.6	575.5	577.5
7°	577.3	578.1	577.5	574.9	573.6	575.5
7.5°	575.3	576.1	575.4	573.1	571.7	573.3
8°	573.2	573.7	573.2	570.9	569.6	571.0
8.5°	570.9	571.0	570.6	568.8	567.5	568.5
9°	568.1	567.8	567.7	566.2	565.0	565.7
9.5°	565.1	564.3	564.4	563.4	562.3	562.7
10°	561.6	560.1	560.5	560.0	559.4	559.5
10.5°	557.6	555.5	556.0	556.4	556.1	556.0
11°	553.1	550.3	551.0	552.0	552.3	552.0
11.5°	547.8	544.4	545.4	547.1	548.0	547.8
12°	542.1	538.2	539.4	541.5	543.0	542.9
12.5°	536.1	532.0	533.1	535.8	537.6	538.0
13°	529.9	525.4	526.6	529.6	532.2	532.7
13.5°	523.5	519.0	520.1	523.3	526.4	527.3
14°	517.0	512.2	513.4	516.9	520.3	521.7
14.5°	510.4	505.6	506.8	510.5	514.1	516.0
15°	503.8	498.7	500.0	503.8	507.9	510.1
15.5°	497.3	492.1	493.4	497.5	501.4	504.1
16°	490.9	485.7	487.1	491.0	495.0	498.1
16.5°	484.4	479.5	480.7	484.7	489.0	492.2
17°	478.2	473.0	474.3	478.5	482.6	486.0
17.5°	472.0	466.7	468.2	472.2	476.5	479.8
18°	465.9	460.3	461.9	465.9	470.1	473.5
18.5°	459.5	454.0	455.6	459.8	463.9	467.4
19°	453.6	447.8	449.6	453.6	457.6	461.2
19.5°	447.8	441.4	443.5	447.6	451.5	455.1
20°	441.9	435.5	437.6	441.5	445.2	448.8
20.5°	436.1	429.3	431.5	435.6	439.1	442.7
21°	430.3	423.4	425.5	429.4	432.8	436.5
21.5°	424.5	417.2	419.5	423.4	426.6	430.3
22°	418.5	411.2	413.5	417.2	420.4	423.9

TEST NUMBER: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	412.3	405.0	407.2	411.0	413.9	417.4
23°	405.6	398.3	400.4	404.3	407.0	410.3
23.5°	398.3	391.0	393.3	397.2	400.0	403.3
24°	390.9	383.3	385.7	389.7	392.5	395.8
24.5°	383.2	374.7	377.9	381.5	384.5	388.3
25°	375.2	366.7	369.7	373.2	376.2	380.4
25.5°	366.7	358.4	361.3	364.4	367.9	372.7
26°	358.3	350.3	352.9	355.4	359.4	364.9
26.5°	349.5	341.8	344.3	346.4	350.6	357.3
27°	340.5	333.7	335.6	337.2	341.4	349.0
27.5°	331.4	325.5	326.7	328.1	332.5	341.0
28°	322.0	317.0	317.7	319.1	324.0	332.6
28.5°	312.8	308.5	308.9	310.1	315.5	324.1
29°	303.9	299.8	300.1	301.4	307.1	315.3
29.5°	295.1	290.8	291.3	292.8	298.9	306.7
30°	286.3	281.8	282.2	284.3	290.8	297.4
30.5°	277.5	272.4	273.1	275.8	282.5	288.6
31°	268.9	263.4	264.1	267.3	274.2	279.7
31.5°	260.3	254.2	255.3	258.8	265.7	270.9
32°	251.9	245.2	246.5	250.3	257.0	262.0
32.5°	243.5	236.4	237.9	241.7	248.3	253.4
33°	235.1	227.8	229.5	233.1	239.5	244.8
33.5°	226.5	219.0	221.2	224.4	230.7	236.2
34°	218.2	209.3	213.5	216.1	221.8	227.6
34.5°	209.9	201.5	205.4	208.1	213.2	219.0
35°	201.8	193.7	197.3	200.2	205.1	208.9
35.5°	193.7	185.9	189.3	192.3	197.0	200.9
36°	186.0	178.1	181.2	184.4	188.9	192.9
36.5°	178.2	170.6	173.1	176.4	180.8	184.9
37°	170.5	163.1	165.4	169.0	172.8	176.9
37.5°	163.0	155.9	157.9	161.6	165.2	168.6
38°	155.6	149.0	150.4	154.5	157.8	160.5
38.5°	148.5	142.1	143.2	147.2	150.3	152.6
39°	141.5	135.6	136.6	140.2	143.1	145.1
39.5°	134.6	128.9	129.9	133.1	135.8	137.6
40°	127.7	122.3	123.4	126.2	128.5	130.3
40.5°	121.2	116.2	117.1	119.4	121.3	123.4
41°	114.8	110.2	111.1	112.8	114.5	116.7
41.5°	108.6	104.4	105.1	106.4	107.7	110.1
42°	102.6	98.8	99.3	100.2	101.3	103.9
42.5°	96.6	93.4	93.8	94.0	95.0	97.9
43°	91.0	88.3	88.3	88.4	89.1	92.0
43.5°	85.5	83.2	83.1	82.6	83.3	86.2
44°	80.4	78.3	78.1	77.1	77.8	80.9
44.5°	75.3	73.5	73.3	71.7	72.4	75.6

TEST NUMBER: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	70.5	69.0	68.5	66.7	67.3	70.6
45.5°	65.8	64.6	64.1	61.8	62.4	65.7
46°	61.3	60.4	59.9	57.1	57.8	61.2
46.5°	57.2	56.3	55.8	52.7	53.3	56.7
47°	53.3	52.4	51.9	48.7	49.1	52.5
47.5°	49.5	48.7	48.1	44.9	45.2	48.5
48°	45.6	45.0	44.5	41.4	41.7	44.8
48.5°	41.8	41.7	41.0	38.1	38.3	41.1
49°	38.4	38.4	37.8	35.1	35.1	37.7
49.5°	35.2	35.3	34.7	32.4	32.4	34.5
50°	32.3	32.3	31.7	29.8	29.7	31.4
50.5°	29.4	29.4	28.9	27.3	27.2	28.4
51°	26.8	26.7	26.3	25.0	24.7	25.7
51.5°	24.3	24.1	23.8	22.7	22.5	23.1
52°	22.0	21.7	21.4	20.6	20.6	20.7
52.5°	19.7	19.6	19.4	18.6	18.6	18.6
53°	17.6	17.6	17.4	16.7	16.6	16.5
53.5°	15.6	15.5	15.4	14.8	14.6	14.4
54°	13.7	13.5	13.5	12.9	12.6	12.3
54.5°	11.9	11.4	11.5	11.3	11.0	10.6
55°	10.3	9.9	9.9	9.8	9.4	9.1
55.5°	8.9	8.5	8.6	8.4	8.2	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	5.6	5.2
57°	5.7	4.8	4.9	4.8	4.5	4.2
57.5°	4.8	4.0	4.1	4.0	3.7	3.5
58°	4.0	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°	2.7	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	1.0	0.9
64.5°	0.9	1.0	1.0	1.0	0.9	0.8
65°	0.9	0.9	1.0	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3000K

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	0.6	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.1	0.1	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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°	0.2	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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-LO-3000K

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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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: P1590503

CATALOG NUMBER: HCDLS510CSD4TRC-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	0.4	1.5	0.8	1.8	2.1	1.4	2.4	1.8	2.8	3.1
	3H	0.3	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	1.2	1.7	1.1	1.8	1.5	2.2	2.6
	12H	0.1	0.8	0.5	1.1	1.6	1.1	1.7	1.5	2.1	2.6
4H	2H	0.3	1.1	0.7	1.4	1.8	1.2	2.0	1.6	2.4	2.8
	3H	0.2	0.9	0.6	1.3	1.7	1.2	1.8	1.6	2.2	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	1.9	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	0.8	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	0.8	1.3	1.3	1.8	2.2
	6H	0.0	0.1	0.3	0.6	1.1	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)