

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: METALUX

Report Number: P973018

Luminaire Tested: 14CGRK-L3C3-UNV-MP4-MID-5000K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DLF2412105-1a)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGRK-L3C3-UNV-MP4-MID-5000K
Description: 1x4 CGRK Backlit Panel Retrofit Kit at, MID lumen, 5000K CCT settings
Light Source: -
Ballast/Driver: -

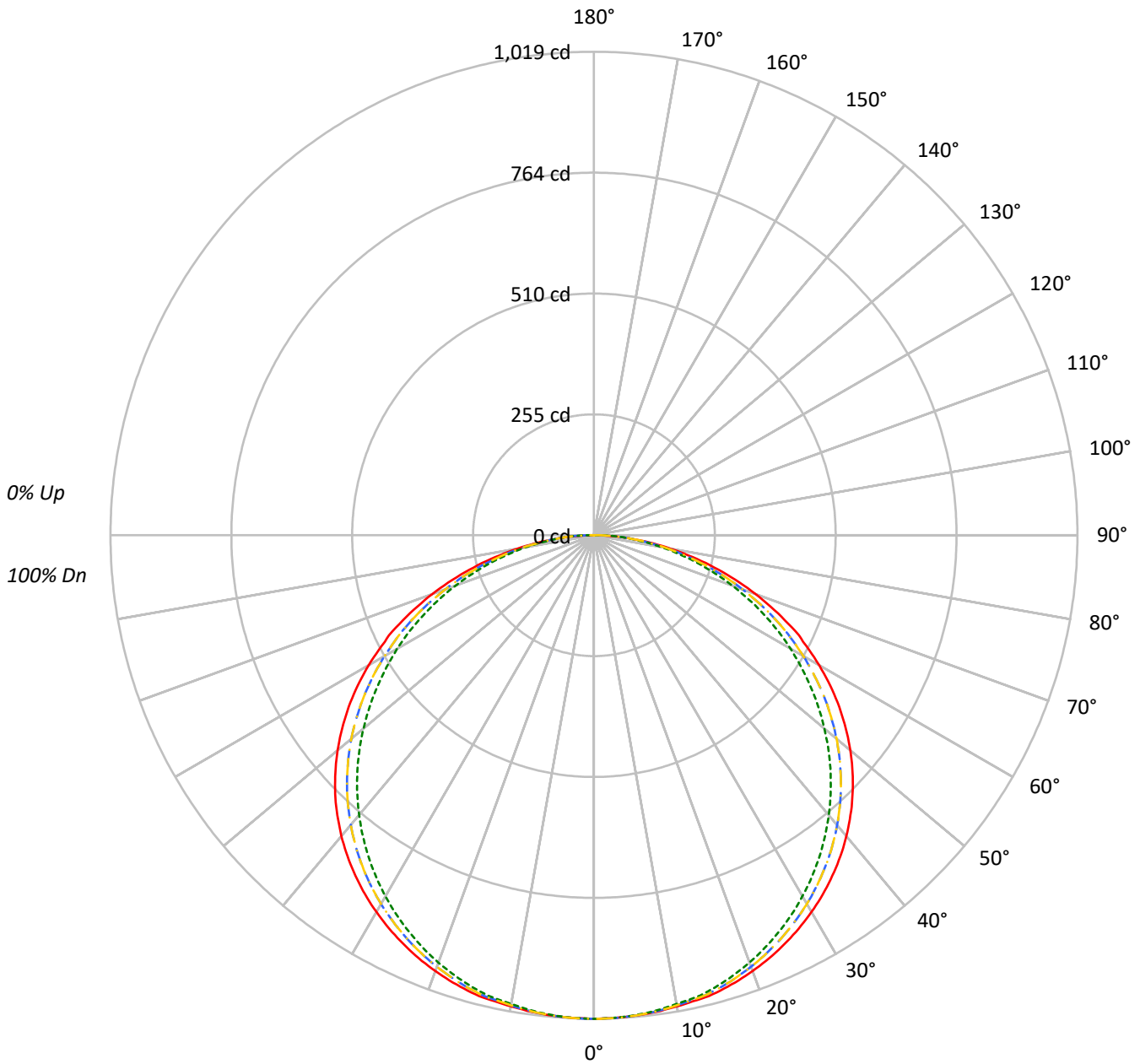
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3200.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.43
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 22.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100				100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82				82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68				68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57				57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48				48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32				32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3435	3435	3435	3435
5°	3438	3434	3438	3434
10°	3451	3433	3451	3433
15°	3481	3442	3481	3442
20°	3505	3436	3505	3436
25°	3534	3429	3534	3429
30°	3568	3419	3568	3419
35°	3604	3406	3604	3406
40°	3642	3387	3642	3387
45°	3674	3360	3674	3360
50°	3698	3325	3698	3325
55°	3707	3277	3707	3277
60°	3695	3229	3695	3229
65°	3673	3153	3673	3153
70°	3572	3057	3572	3057
75°	3419	2942	3419	2942
80°	3200	2812	3200	2812
85°	2826	2838	2826	2838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 89°
 Luminance: 5464 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.0
10°-20°	280.1	8.8
20°-30°	431.9	13.5
30°-40°	532.9	16.7
40°-50°	568.4	17.8
50°-60°	529.7	16.6
60°-70°	420.3	13.1
70°-80°	257.1	8.0
80°-90°	82.9	2.6
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°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	808.6	25.3
0°-40°	1341.6	41.9
0°-60°	2439.6	76.2
0°-90°	3200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1015	1016	1015	1016	97
15°	998	987	998	987	998	282
25°	950	922	950	922	950	439
35°	876	828	876	828	876	548
45°	771	705	771	705	771	595
55°	631	558	631	558	631	563
65°	461	395	461	395	461	454
75°	263	226	263	226	263	277
85°	73	73	73	73	73	79
90°	0	0	0	0	0	4
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: P973018
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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3
1°	1018.9	1019.4	1019.2	1019.3	1018.9	1019.2	1018.9	1019.2	1018.9	1019.3	1019.2
2°	1018.4	1019.0	1018.9	1018.9	1018.5	1018.6	1018.4	1018.6	1018.5	1018.9	1018.9
3°	1017.9	1018.5	1018.3	1018.2	1017.8	1018.0	1017.7	1018.0	1017.8	1018.2	1018.3
4°	1017.3	1017.6	1017.4	1017.2	1016.8	1016.9	1016.6	1016.9	1016.8	1017.2	1017.4
5°	1016.3	1016.4	1016.3	1016.1	1015.6	1015.4	1015.1	1015.4	1015.6	1016.1	1016.3
6°	1015.1	1015.3	1014.9	1014.7	1013.9	1013.7	1013.5	1013.7	1013.9	1014.7	1014.9
7°	1013.7	1013.8	1013.4	1012.9	1012.0	1011.6	1011.2	1011.6	1012.0	1012.9	1013.4
8°	1012.3	1011.9	1011.5	1010.7	1009.9	1009.4	1008.9	1009.4	1009.9	1010.7	1011.5
9°	1010.1	1010.1	1009.4	1008.8	1007.5	1006.7	1006.2	1006.7	1007.5	1008.8	1009.4
10°	1008.5	1008.0	1007.0	1005.9	1005.0	1003.9	1003.2	1003.9	1005.0	1005.9	1007.0
11°	1006.2	1005.7	1004.5	1003.7	1002.5	1001.3	1000.7	1001.3	1002.5	1003.7	1004.5
12°	1004.3	1004.0	1002.8	1001.3	1000.0	998.6	998.3	998.6	1000.0	1001.3	1002.8
13°	1002.7	1002.6	1001.2	999.3	997.4	995.7	995.5	995.7	997.4	999.3	1001.2
14°	1001.0	1000.5	998.3	996.2	994.1	992.1	991.0	992.1	994.1	996.2	998.3
15°	997.8	996.9	994.8	992.2	989.6	987.6	986.6	987.6	989.6	992.2	994.8
16°	994.2	993.2	991.0	987.9	985.0	982.7	981.5	982.7	985.0	987.9	991.0
17°	990.4	989.3	986.6	983.4	980.1	977.5	976.3	977.5	980.1	983.4	986.6
18°	986.4	985.0	982.2	978.4	974.8	972.0	970.5	972.0	974.8	978.4	982.2
19°	982.1	980.7	977.4	973.3	969.2	966.1	964.5	966.1	969.2	973.3	977.4
20°	977.4	976.0	972.5	967.9	963.4	959.9	958.3	959.9	963.4	967.9	972.5
21°	972.6	971.0	967.1	962.2	957.4	953.6	951.9	953.6	957.4	962.2	967.1
22°	967.7	965.8	961.5	956.3	950.7	946.6	945.0	946.6	950.7	956.3	961.5
23°	962.2	960.5	955.8	949.7	944.0	939.7	937.6	939.7	944.0	949.7	955.8
24°	956.6	954.6	949.6	943.0	936.8	932.2	930.2	932.2	936.8	943.0	949.6
25°	950.4	948.5	943.2	936.3	929.5	924.4	922.2	924.4	929.5	936.3	943.2
26°	944.3	942.1	936.7	928.9	921.9	916.4	914.3	916.4	921.9	928.9	936.7
27°	937.9	935.5	929.8	921.6	913.9	908.0	905.7	908.0	913.9	921.6	929.8
28°	931.1	928.9	922.6	913.7	905.7	899.4	897.3	899.4	905.7	913.7	922.6
29°	924.1	921.6	915.0	905.8	896.9	890.6	888.2	890.6	896.9	905.8	915.0
30°	916.9	914.3	907.2	897.4	888.2	881.3	878.8	881.3	888.2	897.4	907.2
31°	909.3	906.6	899.1	888.8	879.0	871.8	869.3	871.8	879.0	888.8	899.1
32°	901.6	898.5	890.8	879.7	869.5	862.1	859.3	862.1	869.5	879.7	890.8
33°	893.4	890.2	881.9	870.4	859.6	851.8	849.0	851.8	859.6	870.4	881.9
34°	885.0	881.6	872.8	861.0	849.7	841.4	838.6	841.4	849.7	861.0	872.8
35°	876.2	872.6	863.6	851.2	839.3	831.0	828.0	831.0	839.3	851.2	863.6
36°	867.3	863.5	853.9	841.0	828.7	819.8	817.0	819.8	828.7	841.0	853.9
37°	857.8	854.0	843.9	830.6	817.9	808.7	805.6	808.7	817.9	830.6	843.9
38°	848.2	844.2	833.7	819.8	806.5	797.4	794.1	797.4	806.5	819.8	833.7
39°	838.1	834.0	823.0	808.8	795.1	785.6	782.0	785.6	795.1	808.8	823.0
40°	827.9	823.6	811.9	797.3	783.3	773.5	769.9	773.5	783.3	797.3	811.9
41°	817.0	812.6	801.0	785.7	771.3	761.1	757.6	761.1	771.3	785.7	801.0
42°	806.0	801.5	789.3	773.7	759.0	748.5	744.8	748.5	759.0	773.7	789.3
43°	794.7	790.0	777.6	761.5	746.4	735.7	731.9	735.7	746.4	761.5	777.6
44°	783.2	778.2	765.4	749.0	733.5	722.5	718.5	722.5	733.5	749.0	765.4



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	771.0	766.1	752.8	736.0	720.3	709.1	705.2	709.1	720.3	736.0	752.8
46°	758.6	753.5	739.9	722.8	706.9	695.6	691.4	695.6	706.9	722.8	739.9
47°	745.7	740.6	726.8	709.4	693.1	681.4	677.4	681.4	693.1	709.4	726.8
48°	732.7	727.5	713.5	695.8	679.2	667.3	663.3	667.3	679.2	695.8	713.5
49°	719.1	713.8	699.5	681.6	664.8	653.0	648.6	653.0	664.8	681.6	699.5
50°	705.5	700.0	685.4	667.3	650.3	638.3	634.2	638.3	650.3	667.3	685.4
51°	691.2	685.7	671.2	652.8	635.6	623.7	619.4	623.7	635.6	652.8	671.2
52°	676.5	670.9	656.4	637.7	620.5	608.5	604.3	608.5	620.5	637.7	656.4
53°	661.7	656.2	641.4	622.7	605.4	593.4	588.9	593.4	605.4	622.7	641.4
54°	646.4	640.8	626.0	607.2	590.0	578.1	573.9	578.1	590.0	607.2	626.0
55°	631.0	625.2	610.4	591.5	574.3	562.4	557.8	562.4	574.3	591.5	610.4
56°	615.0	609.4	594.4	575.7	558.4	546.5	542.2	546.5	558.4	575.7	594.4
57°	599.0	593.2	578.4	559.5	542.3	530.7	526.3	530.7	542.3	559.5	578.4
58°	582.3	576.6	561.8	543.1	526.1	514.4	510.2	514.4	526.1	543.1	561.8
59°	565.4	559.7	545.1	526.4	509.6	498.1	494.0	498.1	509.6	526.4	545.1
60°	548.3	542.5	528.1	509.6	493.1	482.1	479.1	482.1	493.1	509.6	528.1
61°	530.6	524.9	510.6	492.5	476.8	465.9	462.5	465.9	476.8	492.5	510.6
62°	512.9	507.3	493.2	475.5	460.2	449.5	446.1	449.5	460.2	475.5	493.2
63°	494.9	489.3	474.9	458.8	443.5	433.1	429.3	433.1	443.5	458.8	474.9
64°	481.1	471.4	458.1	441.8	426.3	416.1	412.3	416.1	426.3	441.8	458.1
65°	460.7	453.5	440.7	423.9	408.9	399.0	395.4	399.0	408.9	423.9	440.7
66°	440.4	435.2	422.1	405.9	391.5	382.0	378.4	382.0	391.5	405.9	422.1
67°	421.3	416.3	403.6	388.0	374.0	364.7	361.5	364.7	374.0	388.0	403.6
68°	401.8	397.0	384.8	369.9	356.4	347.5	344.4	347.5	356.4	369.9	384.8
69°	382.2	377.6	365.9	351.6	338.7	330.3	327.3	330.3	338.7	351.6	365.9
70°	362.6	358.1	346.9	333.4	321.1	313.2	310.3	313.2	321.1	333.4	346.9
71°	342.6	338.4	327.9	315.0	303.4	296.0	293.3	296.0	303.4	315.0	327.9
72°	322.6	318.7	308.8	296.8	286.0	278.9	276.3	278.9	286.0	296.8	308.8
73°	302.6	299.1	289.6	278.5	268.3	261.8	259.4	261.8	268.3	278.5	289.6
74°	282.6	279.3	270.7	260.2	251.0	244.9	242.7	244.9	251.0	260.2	270.7
75°	262.6	259.5	251.7	242.1	233.6	228.0	226.0	228.0	233.6	242.1	251.7
76°	242.9	240.0	232.9	224.3	216.5	211.4	209.5	211.4	216.5	224.3	232.9
77°	223.0	220.6	214.2	206.4	199.4	194.8	193.0	194.8	199.4	206.4	214.2
78°	203.5	201.2	195.6	188.7	182.5	178.4	176.8	178.4	182.5	188.7	195.6
79°	184.2	182.2	177.4	171.3	165.8	162.1	160.8	162.1	165.8	171.3	177.4
80°	164.9	163.5	159.3	154.1	149.3	146.2	144.9	146.2	149.3	154.1	159.3
81°	145.9	144.7	141.6	137.2	133.2	130.5	129.7	130.5	133.2	137.2	141.6
82°	127.2	126.3	124.0	120.5	117.2	115.4	114.7	115.4	117.2	120.5	124.0
83°	108.7	108.0	106.5	103.9	101.5	100.3	99.6	100.3	101.5	103.9	106.5
84°	90.5	90.4	89.4	88.2	86.7	86.2	86.0	86.2	86.7	88.2	89.4
85°	73.1	73.1	72.8	72.7	72.9	73.4	73.4	73.4	72.9	72.7	72.8
86°	56.4	56.7	57.1	58.7	60.6	61.6	61.9	61.6	60.6	58.7	57.1
87°	40.5	41.2	43.0	46.1	49.2	50.6	51.1	50.6	49.2	46.1	43.0
88°	26.3	27.1	30.9	35.1	38.0	40.1	40.0	40.1	38.0	35.1	30.9
89°	12.6	15.0	19.1	23.6	26.3	28.3	26.9	28.3	26.3	23.6	19.1



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	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
92°	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
94°	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
96°	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
98°	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
100°	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
102°	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
104°	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
106°	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
108°	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
110°	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
112°	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
114°	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
116°	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
118°	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
120°	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
122°	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
124°	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
126°	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
128°	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
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973018
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973018
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973018
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3	1019.3
1°	1019.4	1018.9	1019.4	1019.2	1019.3	1018.9	1019.2	1018.9	1019.2	1018.9	1019.3
2°	1019.0	1018.4	1019.0	1018.9	1018.9	1018.5	1018.6	1018.4	1018.6	1018.5	1018.9
3°	1018.5	1017.9	1018.5	1018.3	1018.2	1017.8	1018.0	1017.7	1018.0	1017.8	1018.2
4°	1017.6	1017.3	1017.6	1017.4	1017.2	1016.8	1016.9	1016.6	1016.9	1016.8	1017.2
5°	1016.4	1016.3	1016.4	1016.3	1016.1	1015.6	1015.4	1015.1	1015.4	1015.6	1016.1
6°	1015.3	1015.1	1015.3	1014.9	1014.7	1013.9	1013.7	1013.5	1013.7	1013.9	1014.7
7°	1013.8	1013.7	1013.8	1013.4	1012.9	1012.0	1011.6	1011.2	1011.6	1012.0	1012.9
8°	1011.9	1012.3	1011.9	1011.5	1010.7	1009.9	1009.4	1008.9	1009.4	1009.9	1010.7
9°	1010.1	1010.1	1010.1	1009.4	1008.8	1007.5	1006.7	1006.2	1006.7	1007.5	1008.8
10°	1008.0	1008.5	1008.0	1007.0	1005.9	1005.0	1003.9	1003.2	1003.9	1005.0	1005.9
11°	1005.7	1006.2	1005.7	1004.5	1003.7	1002.5	1001.3	1000.7	1001.3	1002.5	1003.7
12°	1004.0	1004.3	1004.0	1002.8	1001.3	1000.0	998.6	998.3	998.6	1000.0	1001.3
13°	1002.6	1002.7	1002.6	1001.2	999.3	997.4	995.7	995.5	995.7	997.4	999.3
14°	1000.5	1001.0	1000.5	998.3	996.2	994.1	992.1	991.0	992.1	994.1	996.2
15°	996.9	997.8	996.9	994.8	992.2	989.6	987.6	986.6	987.6	989.6	992.2
16°	993.2	994.2	993.2	991.0	987.9	985.0	982.7	981.5	982.7	985.0	987.9
17°	989.3	990.4	989.3	986.6	983.4	980.1	977.5	976.3	977.5	980.1	983.4
18°	985.0	986.4	985.0	982.2	978.4	974.8	972.0	970.5	972.0	974.8	978.4
19°	980.7	982.1	980.7	977.4	973.3	969.2	966.1	964.5	966.1	969.2	973.3
20°	976.0	977.4	976.0	972.5	967.9	963.4	959.9	958.3	959.9	963.4	967.9
21°	971.0	972.6	971.0	967.1	962.2	957.4	953.6	951.9	953.6	957.4	962.2
22°	965.8	967.7	965.8	961.5	956.3	950.7	946.6	945.0	946.6	950.7	956.3
23°	960.5	962.2	960.5	955.8	949.7	944.0	939.7	937.6	939.7	944.0	949.7
24°	954.6	956.6	954.6	949.6	943.0	936.8	932.2	930.2	932.2	936.8	943.0
25°	948.5	950.4	948.5	943.2	936.3	929.5	924.4	922.2	924.4	929.5	936.3
26°	942.1	944.3	942.1	936.7	928.9	921.9	916.4	914.3	916.4	921.9	928.9
27°	935.5	937.9	935.5	929.8	921.6	913.9	908.0	905.7	908.0	913.9	921.6
28°	928.9	931.1	928.9	922.6	913.7	905.7	899.4	897.3	899.4	905.7	913.7
29°	921.6	924.1	921.6	915.0	905.8	896.9	890.6	888.2	890.6	896.9	905.8
30°	914.3	916.9	914.3	907.2	897.4	888.2	881.3	878.8	881.3	888.2	897.4
31°	906.6	909.3	906.6	899.1	888.8	879.0	871.8	869.3	871.8	879.0	888.8
32°	898.5	901.6	898.5	890.8	879.7	869.5	862.1	859.3	862.1	869.5	879.7
33°	890.2	893.4	890.2	881.9	870.4	859.6	851.8	849.0	851.8	859.6	870.4
34°	881.6	885.0	881.6	872.8	861.0	849.7	841.4	838.6	841.4	849.7	861.0
35°	872.6	876.2	872.6	863.6	851.2	839.3	831.0	828.0	831.0	839.3	851.2
36°	863.5	867.3	863.5	853.9	841.0	828.7	819.8	817.0	819.8	828.7	841.0
37°	854.0	857.8	854.0	843.9	830.6	817.9	808.7	805.6	808.7	817.9	830.6
38°	844.2	848.2	844.2	833.7	819.8	806.5	797.4	794.1	797.4	806.5	819.8
39°	834.0	838.1	834.0	823.0	808.8	795.1	785.6	782.0	785.6	795.1	808.8
40°	823.6	827.9	823.6	811.9	797.3	783.3	773.5	769.9	773.5	783.3	797.3
41°	812.6	817.0	812.6	801.0	785.7	771.3	761.1	757.6	761.1	771.3	785.7
42°	801.5	806.0	801.5	789.3	773.7	759.0	748.5	744.8	748.5	759.0	773.7
43°	790.0	794.7	790.0	777.6	761.5	746.4	735.7	731.9	735.7	746.4	761.5
44°	778.2	783.2	778.2	765.4	749.0	733.5	722.5	718.5	722.5	733.5	749.0



TEST NUMBER: P973018
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	766.1	771.0	766.1	752.8	736.0	720.3	709.1	705.2	709.1	720.3	736.0
46°	753.5	758.6	753.5	739.9	722.8	706.9	695.6	691.4	695.6	706.9	722.8
47°	740.6	745.7	740.6	726.8	709.4	693.1	681.4	677.4	681.4	693.1	709.4
48°	727.5	732.7	727.5	713.5	695.8	679.2	667.3	663.3	667.3	679.2	695.8
49°	713.8	719.1	713.8	699.5	681.6	664.8	653.0	648.6	653.0	664.8	681.6
50°	700.0	705.5	700.0	685.4	667.3	650.3	638.3	634.2	638.3	650.3	667.3
51°	685.7	691.2	685.7	671.2	652.8	635.6	623.7	619.4	623.7	635.6	652.8
52°	670.9	676.5	670.9	656.4	637.7	620.5	608.5	604.3	608.5	620.5	637.7
53°	656.2	661.7	656.2	641.4	622.7	605.4	593.4	588.9	593.4	605.4	622.7
54°	640.8	646.4	640.8	626.0	607.2	590.0	578.1	573.9	578.1	590.0	607.2
55°	625.2	631.0	625.2	610.4	591.5	574.3	562.4	557.8	562.4	574.3	591.5
56°	609.4	615.0	609.4	594.4	575.7	558.4	546.5	542.2	546.5	558.4	575.7
57°	593.2	599.0	593.2	578.4	559.5	542.3	530.7	526.3	530.7	542.3	559.5
58°	576.6	582.3	576.6	561.8	543.1	526.1	514.4	510.2	514.4	526.1	543.1
59°	559.7	565.4	559.7	545.1	526.4	509.6	498.1	494.0	498.1	509.6	526.4
60°	542.5	548.3	542.5	528.1	509.6	493.1	482.1	479.1	482.1	493.1	509.6
61°	524.9	530.6	524.9	510.6	492.5	476.8	465.9	462.5	465.9	476.8	492.5
62°	507.3	512.9	507.3	493.2	475.5	460.2	449.5	446.1	449.5	460.2	475.5
63°	489.3	494.9	489.3	474.9	458.8	443.5	433.1	429.3	433.1	443.5	458.8
64°	471.4	481.1	471.4	458.1	441.8	426.3	416.1	412.3	416.1	426.3	441.8
65°	453.5	460.7	453.5	440.7	423.9	408.9	399.0	395.4	399.0	408.9	423.9
66°	435.2	440.4	435.2	422.1	405.9	391.5	382.0	378.4	382.0	391.5	405.9
67°	416.3	421.3	416.3	403.6	388.0	374.0	364.7	361.5	364.7	374.0	388.0
68°	397.0	401.8	397.0	384.8	369.9	356.4	347.5	344.4	347.5	356.4	369.9
69°	377.6	382.2	377.6	365.9	351.6	338.7	330.3	327.3	330.3	338.7	351.6
70°	358.1	362.6	358.1	346.9	333.4	321.1	313.2	310.3	313.2	321.1	333.4
71°	338.4	342.6	338.4	327.9	315.0	303.4	296.0	293.3	296.0	303.4	315.0
72°	318.7	322.6	318.7	308.8	296.8	286.0	278.9	276.3	278.9	286.0	296.8
73°	299.1	302.6	299.1	289.6	278.5	268.3	261.8	259.4	261.8	268.3	278.5
74°	279.3	282.6	279.3	270.7	260.2	251.0	244.9	242.7	244.9	251.0	260.2
75°	259.5	262.6	259.5	251.7	242.1	233.6	228.0	226.0	228.0	233.6	242.1
76°	240.0	242.9	240.0	232.9	224.3	216.5	211.4	209.5	211.4	216.5	224.3
77°	220.6	223.0	220.6	214.2	206.4	199.4	194.8	193.0	194.8	199.4	206.4
78°	201.2	203.5	201.2	195.6	188.7	182.5	178.4	176.8	178.4	182.5	188.7
79°	182.2	184.2	182.2	177.4	171.3	165.8	162.1	160.8	162.1	165.8	171.3
80°	163.5	164.9	163.5	159.3	154.1	149.3	146.2	144.9	146.2	149.3	154.1
81°	144.7	145.9	144.7	141.6	137.2	133.2	130.5	129.7	130.5	133.2	137.2
82°	126.3	127.2	126.3	124.0	120.5	117.2	115.4	114.7	115.4	117.2	120.5
83°	108.0	108.7	108.0	106.5	103.9	101.5	100.3	99.6	100.3	101.5	103.9
84°	90.4	90.5	90.4	89.4	88.2	86.7	86.2	86.0	86.2	86.7	88.2
85°	73.1	73.1	73.1	72.8	72.7	72.9	73.4	73.4	73.4	72.9	72.7
86°	56.7	56.4	56.7	57.1	58.7	60.6	61.6	61.9	61.6	60.6	58.7
87°	41.2	40.5	41.2	43.0	46.1	49.2	50.6	51.1	50.6	49.2	46.1
88°	27.1	26.3	27.1	30.9	35.1	38.0	40.1	40.0	40.1	38.0	35.1
89°	15.0	12.6	15.0	19.1	23.6	26.3	28.3	26.9	28.3	26.3	23.6



TEST NUMBER: P973018
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	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
92°	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
94°	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
96°	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
98°	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
100°	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
102°	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
104°	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
106°	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
108°	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
110°	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
112°	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
114°	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
116°	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
118°	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
120°	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
122°	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
124°	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
126°	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
128°	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
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973018
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973018
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973018
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1019.3	1019.3	1019.3
1°	1019.2	1019.4	1018.9
2°	1018.9	1019.0	1018.4
3°	1018.3	1018.5	1017.9
4°	1017.4	1017.6	1017.3
5°	1016.3	1016.4	1016.3
6°	1014.9	1015.3	1015.1
7°	1013.4	1013.8	1013.7
8°	1011.5	1011.9	1012.3
9°	1009.4	1010.1	1010.1
10°	1007.0	1008.0	1008.5
11°	1004.5	1005.7	1006.2
12°	1002.8	1004.0	1004.3
13°	1001.2	1002.6	1002.7
14°	998.3	1000.5	1001.0
15°	994.8	996.9	997.8
16°	991.0	993.2	994.2
17°	986.6	989.3	990.4
18°	982.2	985.0	986.4
19°	977.4	980.7	982.1
20°	972.5	976.0	977.4
21°	967.1	971.0	972.6
22°	961.5	965.8	967.7
23°	955.8	960.5	962.2
24°	949.6	954.6	956.6
25°	943.2	948.5	950.4
26°	936.7	942.1	944.3
27°	929.8	935.5	937.9
28°	922.6	928.9	931.1
29°	915.0	921.6	924.1
30°	907.2	914.3	916.9
31°	899.1	906.6	909.3
32°	890.8	898.5	901.6
33°	881.9	890.2	893.4
34°	872.8	881.6	885.0
35°	863.6	872.6	876.2
36°	853.9	863.5	867.3
37°	843.9	854.0	857.8
38°	833.7	844.2	848.2
39°	823.0	834.0	838.1
40°	811.9	823.6	827.9
41°	801.0	812.6	817.0
42°	789.3	801.5	806.0
43°	777.6	790.0	794.7
44°	765.4	778.2	783.2



TEST NUMBER: P973018
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	752.8	766.1	771.0
46°	739.9	753.5	758.6
47°	726.8	740.6	745.7
48°	713.5	727.5	732.7
49°	699.5	713.8	719.1
50°	685.4	700.0	705.5
51°	671.2	685.7	691.2
52°	656.4	670.9	676.5
53°	641.4	656.2	661.7
54°	626.0	640.8	646.4
55°	610.4	625.2	631.0
56°	594.4	609.4	615.0
57°	578.4	593.2	599.0
58°	561.8	576.6	582.3
59°	545.1	559.7	565.4
60°	528.1	542.5	548.3
61°	510.6	524.9	530.6
62°	493.2	507.3	512.9
63°	474.9	489.3	494.9
64°	458.1	471.4	481.1
65°	440.7	453.5	460.7
66°	422.1	435.2	440.4
67°	403.6	416.3	421.3
68°	384.8	397.0	401.8
69°	365.9	377.6	382.2
70°	346.9	358.1	362.6
71°	327.9	338.4	342.6
72°	308.8	318.7	322.6
73°	289.6	299.1	302.6
74°	270.7	279.3	282.6
75°	251.7	259.5	262.6
76°	232.9	240.0	242.9
77°	214.2	220.6	223.0
78°	195.6	201.2	203.5
79°	177.4	182.2	184.2
80°	159.3	163.5	164.9
81°	141.6	144.7	145.9
82°	124.0	126.3	127.2
83°	106.5	108.0	108.7
84°	89.4	90.4	90.5
85°	72.8	73.1	73.1
86°	57.1	56.7	56.4
87°	43.0	41.2	40.5
88°	30.9	27.1	26.3
89°	19.1	15.0	12.6



TEST NUMBER: P973018
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



TEST NUMBER: P973018
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0



TEST NUMBER: P973018
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973018
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-5000K

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	16.95	18.63	17.31	18.94	19.26	16.24	17.92	16.60	18.23	18.55
	3H	18.98	20.50	19.35	20.83	21.19	18.15	19.68	18.53	20.00	20.36
	4H	19.76	21.20	20.16	21.55	21.92	18.90	20.34	19.30	20.69	21.07
	6H	20.37	21.71	20.78	22.07	22.46	19.50	20.84	19.91	21.20	21.59
	8H	20.58	21.86	21.00	22.24	22.64	19.72	21.00	20.14	21.39	21.79
	12H	20.68	21.90	21.10	22.28	22.71	19.84	21.07	20.27	21.45	21.88
4H	2H	17.55	18.99	17.95	19.34	19.72	17.00	18.44	17.40	18.79	19.16
	3H	19.81	21.03	20.22	21.42	21.82	19.13	20.35	19.54	20.74	21.14
	4H	20.74	21.84	21.17	22.26	22.69	20.02	21.12	20.45	21.53	21.96
	6H	21.50	22.46	21.95	22.90	23.36	20.75	21.71	21.20	22.15	22.61
	8H	21.76	22.67	22.22	23.11	23.57	21.02	21.92	21.48	22.37	22.83
	12H	21.93	22.75	22.41	23.22	23.69	21.21	22.03	21.69	22.50	22.97
8H	4H	21.06	21.97	21.52	22.41	22.87	20.43	21.33	20.88	21.77	22.24
	6H	21.95	22.71	22.44	23.20	23.67	21.30	22.06	21.79	22.54	23.01
	8H	22.31	22.99	22.81	23.49	23.98	21.66	22.34	22.16	22.84	23.33
	12H	22.57	23.17	23.07	23.66	24.22	21.95	22.56	22.46	23.04	23.60
12H	4H	21.10	21.92	21.58	22.39	22.86	20.49	21.31	20.97	21.78	22.25
	6H	22.02	22.70	22.53	23.21	23.69	21.39	22.07	21.90	22.58	23.06
	8H	22.44	23.04	22.94	23.53	24.09	21.82	22.42	22.32	22.91	23.47