

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: P973017

Luminaire Tested: 14CGRK-L3C3-UNV-MP4-MID-4000K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973017
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-4000K
Description: 1x4 CGRK Backlit Panel Retrofit Kit at, MID lumen, 4000K CCT settings
Light Source: -
Ballast/Driver: -

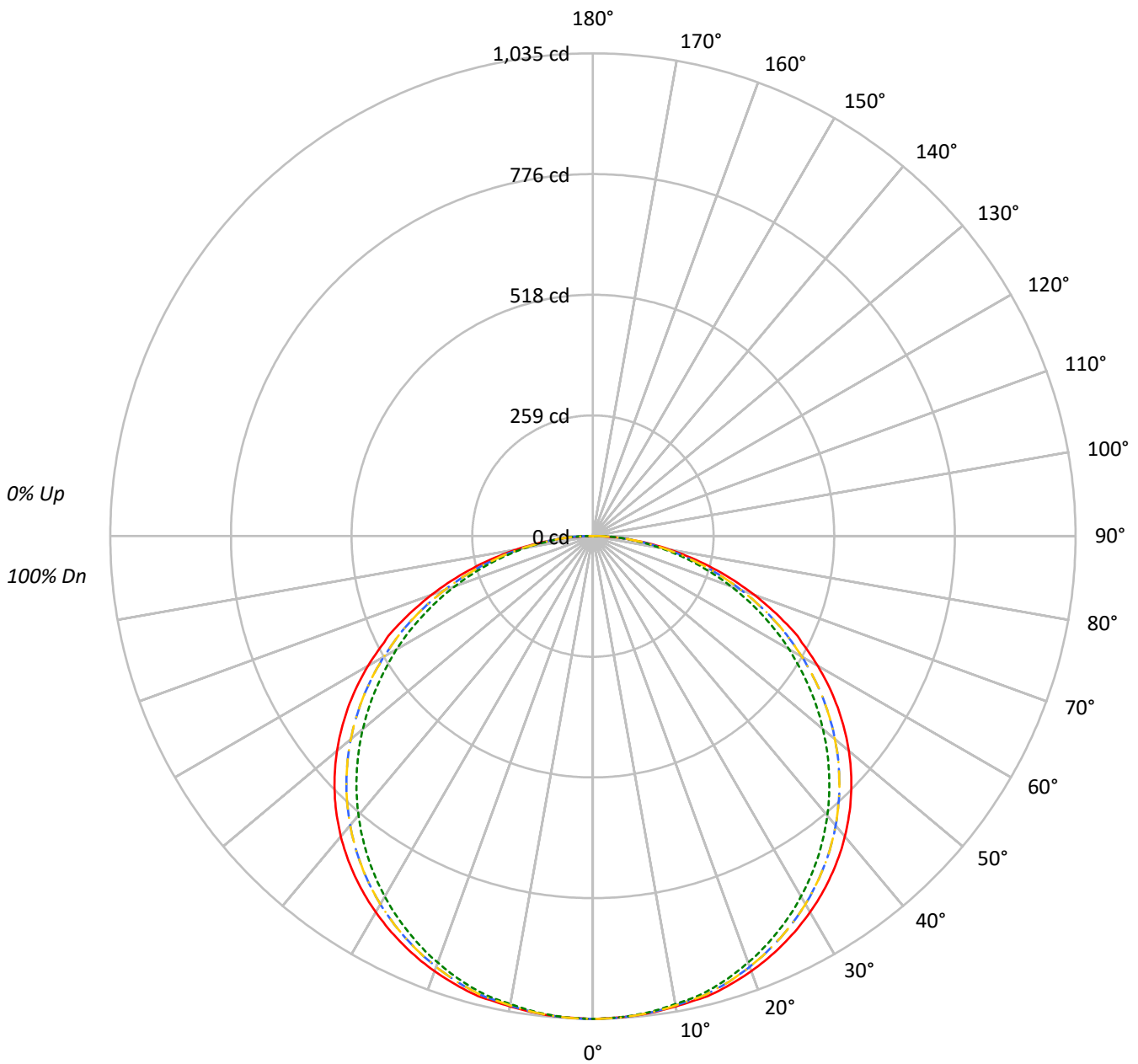
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3250.0 lumens
Efficiency: N/A
Efficacy: 147.1 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): 22.1
Input Voltage (V): NR
Input Current (A_{in}): 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	100	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82	82	82	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68	68	68	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57	57	57	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48	48	48	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41	41	41	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36	36	36	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32	32	32	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28	28	28	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25	25	25	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3488	3488	3488	3488
5°	3491	3487	3491	3487
10°	3504	3486	3504	3486
15°	3535	3495	3535	3495
20°	3560	3490	3560	3490
25°	3589	3482	3589	3482
30°	3623	3473	3623	3473
35°	3661	3459	3661	3459
40°	3698	3439	3698	3439
45°	3731	3413	3731	3413
50°	3757	3376	3757	3376
55°	3765	3328	3765	3328
60°	3753	3279	3753	3279
65°	3731	3202	3731	3202
70°	3627	3104	3627	3104
75°	3472	2988	3472	2988
80°	3250	2856	3250	2856
85°	2869	2880	2869	2880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 89°
 Luminance: 5560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.0
10°-20°	284.5	8.8
20°-30°	438.6	13.5
30°-40°	541.2	16.7
40°-50°	577.3	17.8
50°-60°	538.0	16.6
60°-70°	426.9	13.1
70°-80°	261.1	8.0
80°-90°	84.2	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°	821.3	25.3
0°-40°	1362.5	41.9
0°-60°	2477.7	76.2
0°-90°	3250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1035	1035	1035	1035	1035	
5°	1032	1031	1032	1031	1032	98
15°	1013	1002	1013	1002	1013	286
25°	965	937	965	937	965	445
35°	890	841	890	841	890	557
45°	783	716	783	716	783	604
55°	641	566	641	566	641	572
65°	468	402	468	402	468	461
75°	267	230	267	230	267	282
85°	74	74	74	74	74	80
90°	0	0	0	0	0	5
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: P973017

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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2
1°	1034.9	1035.3	1035.2	1035.2	1034.9	1035.1	1034.8	1035.1	1034.9	1035.2	1035.2
2°	1034.3	1034.9	1034.8	1034.8	1034.4	1034.6	1034.3	1034.6	1034.4	1034.8	1034.8
3°	1033.8	1034.4	1034.2	1034.1	1033.7	1033.9	1033.6	1033.9	1033.7	1034.1	1034.2
4°	1033.2	1033.5	1033.3	1033.1	1032.7	1032.8	1032.5	1032.8	1032.7	1033.1	1033.3
5°	1032.2	1032.3	1032.2	1032.0	1031.5	1031.2	1031.0	1031.2	1031.5	1032.0	1032.2
6°	1030.9	1031.2	1030.8	1030.5	1029.8	1029.5	1029.4	1029.5	1029.8	1030.5	1030.8
7°	1029.5	1029.7	1029.2	1028.7	1027.8	1027.5	1027.0	1027.5	1027.8	1028.7	1029.2
8°	1028.1	1027.8	1027.3	1026.4	1025.7	1025.1	1024.7	1025.1	1025.7	1026.4	1027.3
9°	1025.9	1025.9	1025.1	1024.5	1023.3	1022.4	1022.0	1022.4	1023.3	1024.5	1025.1
10°	1024.2	1023.7	1022.7	1021.7	1020.7	1019.6	1018.9	1019.6	1020.7	1021.7	1022.7
11°	1022.0	1021.4	1020.2	1019.3	1018.2	1017.0	1016.3	1017.0	1018.2	1019.3	1020.2
12°	1020.0	1019.7	1018.5	1017.0	1015.6	1014.2	1013.9	1014.2	1015.6	1017.0	1018.5
13°	1018.3	1018.3	1016.8	1014.9	1012.9	1011.2	1011.0	1011.2	1012.9	1014.9	1016.8
14°	1016.6	1016.1	1013.9	1011.8	1009.6	1007.6	1006.5	1007.6	1009.6	1011.8	1013.9
15°	1013.4	1012.5	1010.3	1007.7	1005.1	1003.1	1002.0	1003.1	1005.1	1007.7	1010.3
16°	1009.8	1008.7	1006.4	1003.4	1000.4	998.0	996.8	998.0	1000.4	1003.4	1006.4
17°	1005.9	1004.8	1002.0	998.8	995.4	992.8	991.5	992.8	995.4	998.8	1002.0
18°	1001.8	1000.4	997.6	993.7	990.1	987.1	985.7	987.1	990.1	993.7	997.6
19°	997.4	996.0	992.7	988.5	984.4	981.2	979.6	981.2	984.4	988.5	992.7
20°	992.7	991.2	987.7	983.0	978.4	974.9	973.2	974.9	978.4	983.0	987.7
21°	987.8	986.1	982.2	977.2	972.3	968.5	966.8	968.5	972.3	977.2	982.2
22°	982.8	980.9	976.6	971.2	965.5	961.4	959.7	961.4	965.5	971.2	976.6
23°	977.3	975.5	970.7	964.5	958.7	954.4	952.2	954.4	958.7	964.5	970.7
24°	971.6	969.5	964.4	957.7	951.5	946.8	944.8	946.8	951.5	957.7	964.4
25°	965.3	963.3	958.0	950.9	944.1	938.9	936.6	938.9	944.1	950.9	958.0
26°	959.0	956.8	951.3	943.4	936.3	930.7	928.5	930.7	936.3	943.4	951.3
27°	952.6	950.2	944.4	936.0	928.2	922.2	919.8	922.2	928.2	936.0	944.4
28°	945.6	943.4	937.0	928.0	919.8	913.4	911.3	913.4	919.8	928.0	937.0
29°	938.6	936.0	929.3	920.0	910.9	904.5	902.1	904.5	910.9	920.0	929.3
30°	931.2	928.5	921.4	911.4	902.1	895.1	892.5	895.1	902.1	911.4	921.4
31°	923.5	920.7	913.2	902.7	892.7	885.4	882.8	885.4	892.7	902.7	913.2
32°	915.6	912.6	904.7	893.5	883.1	875.6	872.7	875.6	883.1	893.5	904.7
33°	907.3	904.1	895.7	884.0	873.0	865.1	862.3	865.1	873.0	884.0	895.7
34°	898.8	895.3	886.5	874.5	863.0	854.5	851.7	854.5	863.0	874.5	886.5
35°	889.9	886.2	877.1	864.5	852.4	844.0	840.9	844.0	852.4	864.5	877.1
36°	880.8	877.0	867.2	854.1	841.6	832.6	829.8	832.6	841.6	854.1	867.2
37°	871.2	867.3	857.1	843.5	830.6	821.4	818.2	821.4	830.6	843.5	857.1
38°	861.4	857.4	846.7	832.6	819.1	809.9	806.5	809.9	819.1	832.6	846.7
39°	851.2	847.0	835.9	821.5	807.6	797.8	794.2	797.8	807.6	821.5	835.9
40°	840.8	836.4	824.6	809.8	795.6	785.5	781.9	785.5	795.6	809.8	824.6
41°	829.8	825.3	813.5	798.0	783.4	773.0	769.4	773.0	783.4	798.0	813.5
42°	818.6	814.0	801.6	785.8	770.9	760.2	756.4	760.2	770.9	785.8	801.6
43°	807.2	802.4	789.8	773.3	758.1	747.2	743.4	747.2	758.1	773.3	789.8
44°	795.4	790.3	777.4	760.7	744.9	733.8	729.7	733.8	744.9	760.7	777.4



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 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	783.0	778.1	764.6	747.5	731.6	720.2	716.2	720.2	731.6	747.5	764.6
46°	770.4	765.3	751.4	734.1	717.9	706.5	702.2	706.5	717.9	734.1	751.4
47°	757.4	752.2	738.1	720.5	704.0	692.1	688.0	692.1	704.0	720.5	738.1
48°	744.2	738.9	724.6	706.7	689.8	677.8	673.7	677.8	689.8	706.7	724.6
49°	730.3	724.9	710.5	692.2	675.2	663.2	658.7	663.2	675.2	692.2	710.5
50°	716.6	710.9	696.1	677.7	660.5	648.3	644.1	648.3	660.5	677.7	696.1
51°	702.0	696.4	681.7	663.0	645.5	633.4	629.1	633.4	645.5	663.0	681.7
52°	687.1	681.4	666.6	647.7	630.2	618.0	613.7	618.0	630.2	647.7	666.6
53°	672.0	666.4	651.4	632.4	614.9	602.7	598.1	602.7	614.9	632.4	651.4
54°	656.5	650.8	635.8	616.7	599.2	587.1	582.9	587.1	599.2	616.7	635.8
55°	640.9	635.0	620.0	600.8	583.3	571.1	566.5	571.1	583.3	600.8	620.0
56°	624.6	618.9	603.7	584.7	567.1	555.1	550.7	555.1	567.1	584.7	603.7
57°	608.3	602.4	587.5	568.2	550.8	538.9	534.5	538.9	550.8	568.2	587.5
58°	591.4	585.6	570.6	551.6	534.3	522.4	518.1	522.4	534.3	551.6	570.6
59°	574.3	568.5	553.6	534.6	517.6	505.9	501.7	505.9	517.6	534.6	553.6
60°	556.9	551.0	536.3	517.5	500.8	489.7	486.6	489.7	500.8	517.5	536.3
61°	538.9	533.1	518.6	500.2	484.2	473.2	469.7	473.2	484.2	500.2	518.6
62°	520.9	515.2	500.9	482.9	467.4	456.6	453.0	456.6	467.4	482.9	500.9
63°	502.6	496.9	482.3	466.0	450.5	439.8	436.0	439.8	450.5	466.0	482.3
64°	488.6	478.8	465.3	448.7	432.9	422.6	418.7	422.6	432.9	448.7	465.3
65°	467.9	460.6	447.6	430.5	415.3	405.3	401.6	405.3	415.3	430.5	447.6
66°	447.3	442.0	428.7	412.3	397.6	387.9	384.3	387.9	397.6	412.3	428.7
67°	427.9	422.8	409.9	394.1	379.9	370.4	367.1	370.4	379.9	394.1	409.9
68°	408.1	403.2	390.8	375.6	362.0	353.0	349.7	353.0	362.0	375.6	390.8
69°	388.2	383.5	371.6	357.1	344.0	335.5	332.4	335.5	344.0	357.1	371.6
70°	368.2	363.7	352.4	338.6	326.1	318.0	315.1	318.0	326.1	338.6	352.4
71°	347.9	343.7	333.0	319.9	308.2	300.6	297.9	300.6	308.2	319.9	333.0
72°	327.6	323.7	313.6	301.4	290.5	283.2	280.6	283.2	290.5	301.4	313.6
73°	307.4	303.8	294.1	282.8	272.5	265.9	263.5	265.9	272.5	282.8	294.1
74°	287.0	283.7	274.9	264.3	254.9	248.7	246.5	248.7	254.9	264.3	274.9
75°	266.7	263.6	255.6	245.9	237.3	231.6	229.5	231.6	237.3	245.9	255.6
76°	246.7	243.8	236.6	227.8	219.9	214.7	212.8	214.7	219.9	227.8	236.6
77°	226.4	224.0	217.5	209.6	202.5	197.8	196.0	197.8	202.5	209.6	217.5
78°	206.7	204.3	198.6	191.7	185.4	181.1	179.6	181.1	185.4	191.7	198.6
79°	187.1	185.1	180.2	174.0	168.4	164.7	163.3	164.7	168.4	174.0	180.2
80°	167.5	166.0	161.8	156.5	151.6	148.4	147.2	148.4	151.6	156.5	161.8
81°	148.2	147.0	143.8	139.3	135.3	132.6	131.7	132.6	135.3	139.3	143.8
82°	129.2	128.3	126.0	122.4	119.0	117.2	116.4	117.2	119.0	122.4	126.0
83°	110.4	109.7	108.2	105.6	103.1	101.8	101.2	101.8	103.1	105.6	108.2
84°	91.9	91.8	90.8	89.5	88.0	87.6	87.3	87.6	88.0	89.5	90.8
85°	74.2	74.3	73.9	73.8	74.1	74.6	74.5	74.6	74.1	73.8	73.9
86°	57.3	57.6	58.0	59.6	61.6	62.6	62.9	62.6	61.6	59.6	58.0
87°	41.2	41.9	43.7	46.8	49.9	51.4	51.9	51.4	49.9	46.8	43.7
88°	26.7	27.6	31.4	35.6	38.6	40.7	40.7	40.7	38.6	35.6	31.4
89°	12.8	15.3	19.4	24.0	26.7	28.8	27.3	28.8	26.7	24.0	19.4



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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: P973017
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

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: P973017
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

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: P973017
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2	1035.2
1°	1035.3	1034.9	1035.3	1035.2	1035.2	1034.9	1035.1	1034.8	1035.1	1034.9	1035.2
2°	1034.9	1034.3	1034.9	1034.8	1034.8	1034.4	1034.6	1034.3	1034.6	1034.4	1034.8
3°	1034.4	1033.8	1034.4	1034.2	1034.1	1033.7	1033.9	1033.6	1033.9	1033.7	1034.1
4°	1033.5	1033.2	1033.5	1033.3	1033.1	1032.7	1032.8	1032.5	1032.8	1032.7	1033.1
5°	1032.3	1032.2	1032.3	1032.2	1032.0	1031.5	1031.2	1031.0	1031.2	1031.5	1032.0
6°	1031.2	1030.9	1031.2	1030.8	1030.5	1029.8	1029.5	1029.4	1029.5	1029.8	1030.5
7°	1029.7	1029.5	1029.7	1029.2	1028.7	1027.8	1027.5	1027.0	1027.5	1027.8	1028.7
8°	1027.8	1028.1	1027.8	1027.3	1026.4	1025.7	1025.1	1024.7	1025.1	1025.7	1026.4
9°	1025.9	1025.9	1025.9	1025.1	1024.5	1023.3	1022.4	1022.0	1022.4	1023.3	1024.5
10°	1023.7	1024.2	1023.7	1022.7	1021.7	1020.7	1019.6	1018.9	1019.6	1020.7	1021.7
11°	1021.4	1022.0	1021.4	1020.2	1019.3	1018.2	1017.0	1016.3	1017.0	1018.2	1019.3
12°	1019.7	1020.0	1019.7	1018.5	1017.0	1015.6	1014.2	1013.9	1014.2	1015.6	1017.0
13°	1018.3	1018.3	1018.3	1016.8	1014.9	1012.9	1011.2	1011.0	1011.2	1012.9	1014.9
14°	1016.1	1016.6	1016.1	1013.9	1011.8	1009.6	1007.6	1006.5	1007.6	1009.6	1011.8
15°	1012.5	1013.4	1012.5	1010.3	1007.7	1005.1	1003.1	1002.0	1003.1	1005.1	1007.7
16°	1008.7	1009.8	1008.7	1006.4	1003.4	1000.4	998.0	996.8	998.0	1000.4	1003.4
17°	1004.8	1005.9	1004.8	1002.0	998.8	995.4	992.8	991.5	992.8	995.4	998.8
18°	1000.4	1001.8	1000.4	997.6	993.7	990.1	987.1	985.7	987.1	990.1	993.7
19°	996.0	997.4	996.0	992.7	988.5	984.4	981.2	979.6	981.2	984.4	988.5
20°	991.2	992.7	991.2	987.7	983.0	978.4	974.9	973.2	974.9	978.4	983.0
21°	986.1	987.8	986.1	982.2	977.2	972.3	968.5	966.8	968.5	972.3	977.2
22°	980.9	982.8	980.9	976.6	971.2	965.5	961.4	959.7	961.4	965.5	971.2
23°	975.5	977.3	975.5	970.7	964.5	958.7	954.4	952.2	954.4	958.7	964.5
24°	969.5	971.6	969.5	964.4	957.7	951.5	946.8	944.8	946.8	951.5	957.7
25°	963.3	965.3	963.3	958.0	950.9	944.1	938.9	936.6	938.9	944.1	950.9
26°	956.8	959.0	956.8	951.3	943.4	936.3	930.7	928.5	930.7	936.3	943.4
27°	950.2	952.6	950.2	944.4	936.0	928.2	922.2	919.8	922.2	928.2	936.0
28°	943.4	945.6	943.4	937.0	928.0	919.8	913.4	911.3	913.4	919.8	928.0
29°	936.0	938.6	936.0	929.3	920.0	910.9	904.5	902.1	904.5	910.9	920.0
30°	928.5	931.2	928.5	921.4	911.4	902.1	895.1	892.5	895.1	902.1	911.4
31°	920.7	923.5	920.7	913.2	902.7	892.7	885.4	882.8	885.4	892.7	902.7
32°	912.6	915.6	912.6	904.7	893.5	883.1	875.6	872.7	875.6	883.1	893.5
33°	904.1	907.3	904.1	895.7	884.0	873.0	865.1	862.3	865.1	873.0	884.0
34°	895.3	898.8	895.3	886.5	874.5	863.0	854.5	851.7	854.5	863.0	874.5
35°	886.2	889.9	886.2	877.1	864.5	852.4	844.0	840.9	844.0	852.4	864.5
36°	877.0	880.8	877.0	867.2	854.1	841.6	832.6	829.8	832.6	841.6	854.1
37°	867.3	871.2	867.3	857.1	843.5	830.6	821.4	818.2	821.4	830.6	843.5
38°	857.4	861.4	857.4	846.7	832.6	819.1	809.9	806.5	809.9	819.1	832.6
39°	847.0	851.2	847.0	835.9	821.5	807.6	797.8	794.2	797.8	807.6	821.5
40°	836.4	840.8	836.4	824.6	809.8	795.6	785.5	781.9	785.5	795.6	809.8
41°	825.3	829.8	825.3	813.5	798.0	783.4	773.0	769.4	773.0	783.4	798.0
42°	814.0	818.6	814.0	801.6	785.8	770.9	760.2	756.4	760.2	770.9	785.8
43°	802.4	807.2	802.4	789.8	773.3	758.1	747.2	743.4	747.2	758.1	773.3
44°	790.3	795.4	790.3	777.4	760.7	744.9	733.8	729.7	733.8	744.9	760.7



TEST NUMBER: P973017
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	778.1	783.0	778.1	764.6	747.5	731.6	720.2	716.2	720.2	731.6	747.5
46°	765.3	770.4	765.3	751.4	734.1	717.9	706.5	702.2	706.5	717.9	734.1
47°	752.2	757.4	752.2	738.1	720.5	704.0	692.1	688.0	692.1	704.0	720.5
48°	738.9	744.2	738.9	724.6	706.7	689.8	677.8	673.7	677.8	689.8	706.7
49°	724.9	730.3	724.9	710.5	692.2	675.2	663.2	658.7	663.2	675.2	692.2
50°	710.9	716.6	710.9	696.1	677.7	660.5	648.3	644.1	648.3	660.5	677.7
51°	696.4	702.0	696.4	681.7	663.0	645.5	633.4	629.1	633.4	645.5	663.0
52°	681.4	687.1	681.4	666.6	647.7	630.2	618.0	613.7	618.0	630.2	647.7
53°	666.4	672.0	666.4	651.4	632.4	614.9	602.7	598.1	602.7	614.9	632.4
54°	650.8	656.5	650.8	635.8	616.7	599.2	587.1	582.9	587.1	599.2	616.7
55°	635.0	640.9	635.0	620.0	600.8	583.3	571.1	566.5	571.1	583.3	600.8
56°	618.9	624.6	618.9	603.7	584.7	567.1	555.1	550.7	555.1	567.1	584.7
57°	602.4	608.3	602.4	587.5	568.2	550.8	538.9	534.5	538.9	550.8	568.2
58°	585.6	591.4	585.6	570.6	551.6	534.3	522.4	518.1	522.4	534.3	551.6
59°	568.5	574.3	568.5	553.6	534.6	517.6	505.9	501.7	505.9	517.6	534.6
60°	551.0	556.9	551.0	536.3	517.5	500.8	489.7	486.6	489.7	500.8	517.5
61°	533.1	538.9	533.1	518.6	500.2	484.2	473.2	469.7	473.2	484.2	500.2
62°	515.2	520.9	515.2	500.9	482.9	467.4	456.6	453.0	456.6	467.4	482.9
63°	496.9	502.6	496.9	482.3	466.0	450.5	439.8	436.0	439.8	450.5	466.0
64°	478.8	488.6	478.8	465.3	448.7	432.9	422.6	418.7	422.6	432.9	448.7
65°	460.6	467.9	460.6	447.6	430.5	415.3	405.3	401.6	405.3	415.3	430.5
66°	442.0	447.3	442.0	428.7	412.3	397.6	387.9	384.3	387.9	397.6	412.3
67°	422.8	427.9	422.8	409.9	394.1	379.9	370.4	367.1	370.4	379.9	394.1
68°	403.2	408.1	403.2	390.8	375.6	362.0	353.0	349.7	353.0	362.0	375.6
69°	383.5	388.2	383.5	371.6	357.1	344.0	335.5	332.4	335.5	344.0	357.1
70°	363.7	368.2	363.7	352.4	338.6	326.1	318.0	315.1	318.0	326.1	338.6
71°	343.7	347.9	343.7	333.0	319.9	308.2	300.6	297.9	300.6	308.2	319.9
72°	323.7	327.6	323.7	313.6	301.4	290.5	283.2	280.6	283.2	290.5	301.4
73°	303.8	307.4	303.8	294.1	282.8	272.5	265.9	263.5	265.9	272.5	282.8
74°	283.7	287.0	283.7	274.9	264.3	254.9	248.7	246.5	248.7	254.9	264.3
75°	263.6	266.7	263.6	255.6	245.9	237.3	231.6	229.5	231.6	237.3	245.9
76°	243.8	246.7	243.8	236.6	227.8	219.9	214.7	212.8	214.7	219.9	227.8
77°	224.0	226.4	224.0	217.5	209.6	202.5	197.8	196.0	197.8	202.5	209.6
78°	204.3	206.7	204.3	198.6	191.7	185.4	181.1	179.6	181.1	185.4	191.7
79°	185.1	187.1	185.1	180.2	174.0	168.4	164.7	163.3	164.7	168.4	174.0
80°	166.0	167.5	166.0	161.8	156.5	151.6	148.4	147.2	148.4	151.6	156.5
81°	147.0	148.2	147.0	143.8	139.3	135.3	132.6	131.7	132.6	135.3	139.3
82°	128.3	129.2	128.3	126.0	122.4	119.0	117.2	116.4	117.2	119.0	122.4
83°	109.7	110.4	109.7	108.2	105.6	103.1	101.8	101.2	101.8	103.1	105.6
84°	91.8	91.9	91.8	90.8	89.5	88.0	87.6	87.3	87.6	88.0	89.5
85°	74.3	74.2	74.3	73.9	73.8	74.1	74.6	74.5	74.6	74.1	73.8
86°	57.6	57.3	57.6	58.0	59.6	61.6	62.6	62.9	62.6	61.6	59.6
87°	41.9	41.2	41.9	43.7	46.8	49.9	51.4	51.9	51.4	49.9	46.8
88°	27.6	26.7	27.6	31.4	35.6	38.6	40.7	40.7	40.7	38.6	35.6
89°	15.3	12.8	15.3	19.4	24.0	26.7	28.8	27.3	28.8	26.7	24.0



TEST NUMBER: P973017
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

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: P973017
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

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: P973017
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

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: P973017

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1035.2	1035.2	1035.2
1°	1035.2	1035.3	1034.9
2°	1034.8	1034.9	1034.3
3°	1034.2	1034.4	1033.8
4°	1033.3	1033.5	1033.2
5°	1032.2	1032.3	1032.2
6°	1030.8	1031.2	1030.9
7°	1029.2	1029.7	1029.5
8°	1027.3	1027.8	1028.1
9°	1025.1	1025.9	1025.9
10°	1022.7	1023.7	1024.2
11°	1020.2	1021.4	1022.0
12°	1018.5	1019.7	1020.0
13°	1016.8	1018.3	1018.3
14°	1013.9	1016.1	1016.6
15°	1010.3	1012.5	1013.4
16°	1006.4	1008.7	1009.8
17°	1002.0	1004.8	1005.9
18°	997.6	1000.4	1001.8
19°	992.7	996.0	997.4
20°	987.7	991.2	992.7
21°	982.2	986.1	987.8
22°	976.6	980.9	982.8
23°	970.7	975.5	977.3
24°	964.4	969.5	971.6
25°	958.0	963.3	965.3
26°	951.3	956.8	959.0
27°	944.4	950.2	952.6
28°	937.0	943.4	945.6
29°	929.3	936.0	938.6
30°	921.4	928.5	931.2
31°	913.2	920.7	923.5
32°	904.7	912.6	915.6
33°	895.7	904.1	907.3
34°	886.5	895.3	898.8
35°	877.1	886.2	889.9
36°	867.2	877.0	880.8
37°	857.1	867.3	871.2
38°	846.7	857.4	861.4
39°	835.9	847.0	851.2
40°	824.6	836.4	840.8
41°	813.5	825.3	829.8
42°	801.6	814.0	818.6
43°	789.8	802.4	807.2
44°	777.4	790.3	795.4



TEST NUMBER: P973017

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	764.6	778.1	783.0
46°	751.4	765.3	770.4
47°	738.1	752.2	757.4
48°	724.6	738.9	744.2
49°	710.5	724.9	730.3
50°	696.1	710.9	716.6
51°	681.7	696.4	702.0
52°	666.6	681.4	687.1
53°	651.4	666.4	672.0
54°	635.8	650.8	656.5
55°	620.0	635.0	640.9
56°	603.7	618.9	624.6
57°	587.5	602.4	608.3
58°	570.6	585.6	591.4
59°	553.6	568.5	574.3
60°	536.3	551.0	556.9
61°	518.6	533.1	538.9
62°	500.9	515.2	520.9
63°	482.3	496.9	502.6
64°	465.3	478.8	488.6
65°	447.6	460.6	467.9
66°	428.7	442.0	447.3
67°	409.9	422.8	427.9
68°	390.8	403.2	408.1
69°	371.6	383.5	388.2
70°	352.4	363.7	368.2
71°	333.0	343.7	347.9
72°	313.6	323.7	327.6
73°	294.1	303.8	307.4
74°	274.9	283.7	287.0
75°	255.6	263.6	266.7
76°	236.6	243.8	246.7
77°	217.5	224.0	226.4
78°	198.6	204.3	206.7
79°	180.2	185.1	187.1
80°	161.8	166.0	167.5
81°	143.8	147.0	148.2
82°	126.0	128.3	129.2
83°	108.2	109.7	110.4
84°	90.8	91.8	91.9
85°	73.9	74.3	74.2
86°	58.0	57.6	57.3
87°	43.7	41.9	41.2
88°	31.4	27.6	26.7
89°	19.4	15.3	12.8



TEST NUMBER: P973017
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

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: P973017
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

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: P973017
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973017
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-MID-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	17.00	18.68	17.37	19.00	19.31	16.29	17.97	16.65	18.28	18.60
	3H	19.03	20.56	19.41	20.88	21.24	18.21	19.73	18.58	20.06	20.42
	4H	19.82	21.26	20.21	21.60	21.98	18.96	20.40	19.36	20.75	21.12
	6H	20.42	21.76	20.83	22.12	22.51	19.56	20.90	19.97	21.26	21.65
	8H	20.63	21.91	21.05	22.30	22.70	19.77	21.05	20.20	21.44	21.84
	12H	20.73	21.96	21.16	22.34	22.77	19.89	21.12	20.32	21.50	21.93
4H	2H	17.61	19.05	18.01	19.40	19.77	17.06	18.50	17.45	18.84	19.22
	3H	19.87	21.08	20.28	21.48	21.88	19.19	20.40	19.59	20.80	21.20
	4H	20.80	21.90	21.23	22.31	22.74	20.07	21.17	20.50	21.58	22.02
	6H	21.55	22.52	22.00	22.96	23.41	20.80	21.77	21.25	22.21	22.66
	8H	21.82	22.72	22.27	23.16	23.63	21.07	21.98	21.53	22.42	22.88
	12H	21.98	22.80	22.46	23.28	23.74	21.27	22.08	21.74	22.56	23.02
8H	4H	21.11	22.02	21.57	22.46	22.92	20.48	21.39	20.94	21.83	22.29
	6H	22.01	22.76	22.50	23.25	23.72	21.35	22.11	21.84	22.59	23.07
	8H	22.36	23.04	22.87	23.55	24.03	21.71	22.39	22.22	22.89	23.38
	12H	22.62	23.23	23.13	23.72	24.27	22.01	22.61	22.51	23.10	23.66
12H	4H	21.15	21.97	21.63	22.44	22.91	20.54	21.36	21.02	21.83	22.30
	6H	22.07	22.76	22.58	23.26	23.74	21.45	22.13	21.95	22.63	23.12
	8H	22.49	23.09	23.00	23.58	24.14	21.87	22.48	22.38	22.96	23.52