

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: P973026

Luminaire Tested: 22CGRK-L3C3-UNV-MP4-MID-4000K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DLF2412105-2a)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CGRK-L3C3-UNV-MP4-MID-4000K
Description: 2x2 CGRK Backlit Panel Retrofit Kit at, MID lumen, 4000K CCT settings
Light Source: -
Ballast/Driver: -

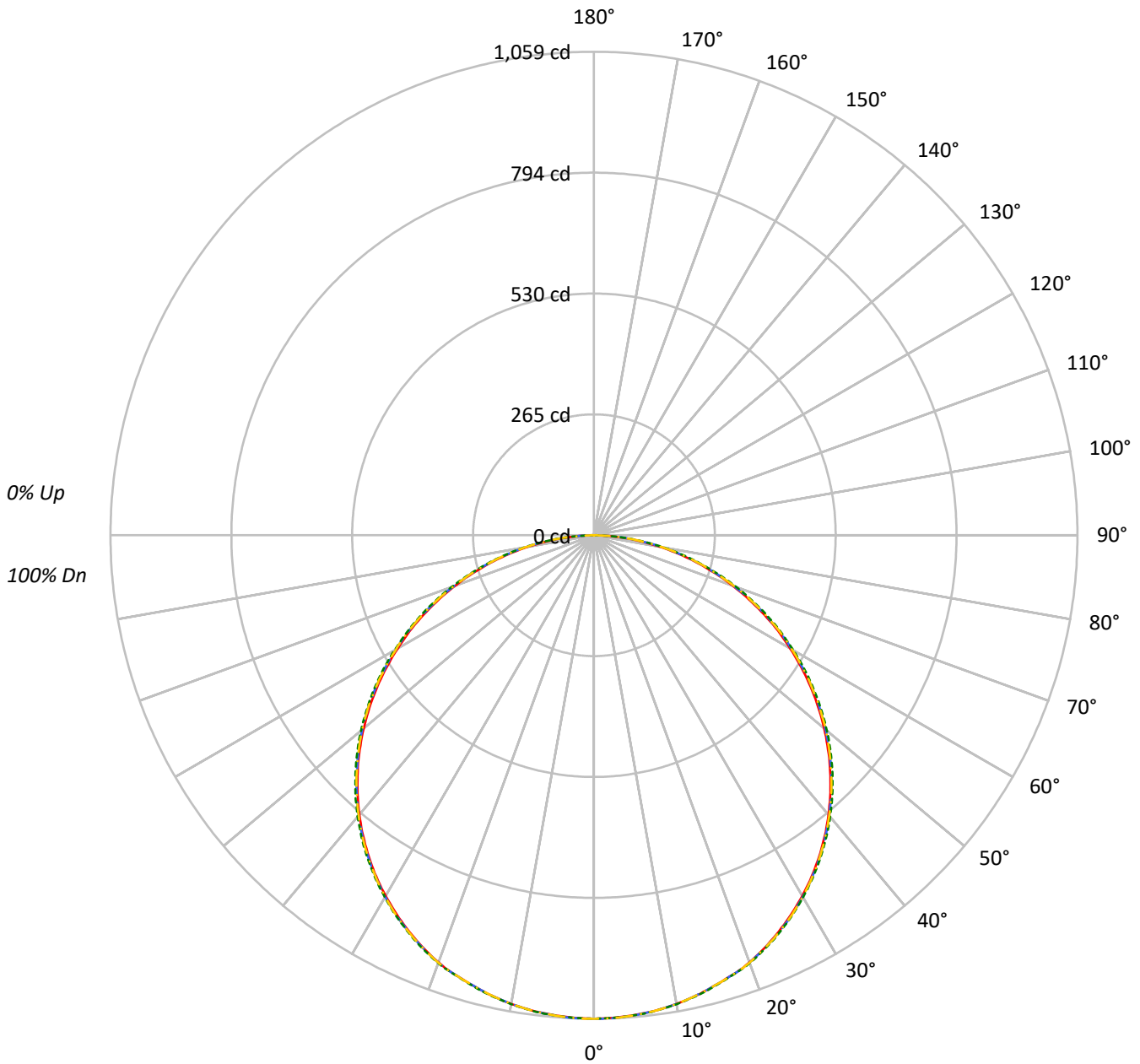
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3200.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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				
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	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68	68	68	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57	57	57	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48	48	48	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42	42	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36	36	36	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32	32	32	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26	26	26	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3392	3392	3392	3392
5°	3390	3391	3390	3391
10°	3389	3392	3389	3392
15°	3387	3391	3387	3391
20°	3393	3400	3393	3400
25°	3385	3395	3385	3395
30°	3373	3387	3373	3387
35°	3361	3379	3361	3379
40°	3341	3366	3341	3366
45°	3314	3346	3314	3346
50°	3280	3319	3280	3319
55°	3235	3281	3235	3281
60°	3179	3234	3179	3234
65°	3117	3185	3117	3185
70°	3027	3108	3027	3108
75°	2910	3007	2910	3007
80°	2717	2871	2717	2871
85°	2363	2653	2363	2653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3346 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.1
10°-20°	288.7	9.0
20°-30°	442.2	13.8
30°-40°	539.2	16.8
40°-50°	567.0	17.7
50°-60°	521.6	16.3
60°-70°	411.2	12.8
70°-80°	252.7	7.9
80°-90°	77.0	2.4
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°	831.3	26.0
0°-40°	1370.5	42.8
0°-60°	2459.1	76.8
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°	1059	1059	1059	1059	1059	
5°	1055	1055	1055	1055	1055	100
15°	1022	1023	1022	1023	1022	289
25°	958	961	958	961	958	442
35°	860	864	860	864	860	538
45°	732	739	732	739	732	564
55°	579	588	579	588	579	518
65°	411	420	411	420	411	407
75°	235	243	235	243	235	248
85°	64	72	64	72	64	70
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: P973026
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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3
1°	1058.5	1059.4	1058.9	1059.2	1058.9	1059.1	1058.5	1059.1	1058.9	1059.2	1058.9
2°	1057.9	1058.8	1058.5	1058.9	1058.4	1058.3	1058.1	1058.3	1058.4	1058.9	1058.5
3°	1057.3	1057.7	1057.5	1058.0	1057.7	1057.7	1057.3	1057.7	1057.7	1058.0	1057.5
4°	1055.8	1056.8	1056.5	1056.6	1056.4	1056.2	1056.3	1056.2	1056.4	1056.6	1056.5
5°	1054.6	1055.2	1055.1	1055.1	1055.1	1054.9	1054.9	1054.9	1055.1	1055.1	1055.1
6°	1052.5	1053.4	1053.0	1053.0	1053.0	1053.1	1053.5	1053.1	1053.0	1053.0	1053.0
7°	1050.9	1051.1	1050.9	1050.8	1050.7	1051.0	1051.4	1051.0	1050.7	1050.8	1050.9
8°	1048.3	1048.5	1048.5	1048.4	1048.6	1048.6	1048.7	1048.6	1048.6	1048.4	1048.5
9°	1045.6	1045.5	1045.7	1045.6	1045.5	1045.6	1046.0	1045.6	1045.5	1045.6	1045.7
10°	1042.3	1042.6	1042.2	1042.2	1042.4	1042.9	1043.1	1042.9	1042.4	1042.2	1042.2
11°	1039.0	1038.3	1038.6	1038.8	1038.7	1039.1	1039.2	1039.1	1038.7	1038.8	1038.6
12°	1035.0	1034.6	1034.8	1034.9	1035.0	1035.6	1035.9	1035.6	1035.0	1034.9	1034.8
13°	1031.0	1030.7	1030.6	1030.7	1031.1	1031.3	1031.6	1031.3	1031.1	1030.7	1030.6
14°	1026.4	1026.1	1026.1	1026.2	1026.6	1026.8	1027.3	1026.8	1026.6	1026.2	1026.1
15°	1021.5	1021.1	1021.4	1021.4	1022.0	1022.1	1022.7	1022.1	1022.0	1021.4	1021.4
16°	1016.7	1016.0	1016.2	1016.7	1017.0	1017.2	1017.6	1017.2	1017.0	1016.7	1016.2
17°	1011.5	1011.6	1011.5	1012.0	1011.5	1012.2	1012.3	1012.2	1011.5	1012.0	1011.5
18°	1007.2	1007.0	1007.1	1007.3	1007.4	1007.7	1007.7	1007.7	1007.4	1007.3	1007.1
19°	1002.4	1001.7	1002.3	1002.7	1002.8	1003.0	1003.2	1003.0	1002.8	1002.7	1002.3
20°	995.7	995.3	995.8	996.3	996.7	997.3	997.6	997.3	996.7	996.3	995.8
21°	988.7	988.4	988.9	989.6	990.2	990.4	990.7	990.4	990.2	989.6	988.9
22°	981.5	981.2	981.8	982.2	983.0	983.4	983.8	983.4	983.0	982.2	981.8
23°	974.2	973.9	974.2	975.0	975.8	976.3	976.2	976.3	975.8	975.0	974.2
24°	965.8	966.0	966.4	967.5	968.0	968.5	968.8	968.5	968.0	967.5	966.4
25°	957.9	957.8	958.4	959.4	959.9	960.8	960.8	960.8	959.9	959.4	958.4
26°	949.2	949.5	950.0	951.0	951.9	952.3	952.3	952.3	951.9	951.0	950.0
27°	940.7	940.7	941.5	942.5	943.1	943.7	943.6	943.7	943.1	942.5	941.5
28°	931.3	931.8	932.6	933.5	934.3	934.7	934.7	934.7	934.3	933.5	932.6
29°	921.8	922.2	923.2	924.1	925.1	925.5	925.5	925.5	925.1	924.1	923.2
30°	912.2	912.7	913.6	914.6	915.5	916.0	915.8	916.0	915.5	914.6	913.6
31°	902.6	902.7	903.4	904.7	905.4	906.0	906.2	906.0	905.4	904.7	903.4
32°	892.4	892.6	893.4	894.4	895.4	896.0	896.0	896.0	895.4	894.4	893.4
33°	881.8	881.9	882.8	883.7	884.8	885.6	885.8	885.6	884.8	883.7	882.8
34°	870.6	871.2	871.9	872.9	874.2	874.9	875.0	874.9	874.2	872.9	871.9
35°	859.6	859.9	860.7	861.9	863.0	864.0	864.3	864.0	863.0	861.9	860.7
36°	848.1	848.7	849.2	850.3	851.7	852.7	853.1	852.7	851.7	850.3	849.2
37°	836.2	836.6	837.5	838.7	840.1	841.0	841.3	841.0	840.1	838.7	837.5
38°	824.4	824.6	825.5	826.6	828.2	828.9	829.7	828.9	828.2	826.6	825.5
39°	811.8	812.3	813.3	814.4	816.0	817.1	817.5	817.1	816.0	814.4	813.3
40°	799.1	799.6	800.8	801.6	803.6	804.4	805.1	804.4	803.6	801.6	800.8
41°	786.1	786.6	787.6	788.9	790.9	791.6	792.2	791.6	790.9	788.9	787.6
42°	772.9	773.7	774.7	775.9	777.9	778.6	779.6	778.6	777.9	775.9	774.7
43°	759.4	760.1	761.2	762.5	764.4	765.3	766.3	765.3	764.4	762.5	761.2
44°	745.6	746.4	747.8	748.9	751.0	751.8	752.5	751.8	751.0	748.9	747.8



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	731.7	732.5	733.7	735.0	737.2	738.1	738.9	738.1	737.2	735.0	733.7
46°	717.8	718.2	719.5	720.8	723.0	724.0	724.7	724.0	723.0	720.8	719.5
47°	702.9	703.6	705.1	706.7	708.6	709.6	710.4	709.6	708.6	706.7	705.1
48°	688.2	688.9	690.5	692.0	694.2	695.1	696.1	695.1	694.2	692.0	690.5
49°	673.3	673.9	675.6	677.5	679.2	680.2	681.2	680.2	679.2	677.5	675.6
50°	658.3	658.7	660.5	662.4	664.3	665.5	666.2	665.5	664.3	662.4	660.5
51°	642.8	643.4	645.1	647.1	648.9	650.3	650.8	650.3	648.9	647.1	645.1
52°	627.2	627.9	629.5	631.7	633.6	634.7	635.3	634.7	633.6	631.7	629.5
53°	611.8	612.0	613.8	616.3	617.8	619.2	619.7	619.2	617.8	616.3	613.8
54°	595.5	596.2	597.8	600.1	601.9	603.4	603.7	603.4	601.9	600.1	597.8
55°	579.4	580.0	581.8	584.2	585.8	587.5	587.7	587.5	585.8	584.2	581.8
56°	563.2	563.7	565.3	568.0	569.8	571.1	571.4	571.1	569.8	568.0	565.3
57°	546.5	547.1	549.0	551.4	553.2	554.8	555.3	554.8	553.2	551.4	549.0
58°	529.9	530.6	532.5	535.0	536.6	538.2	538.6	538.2	536.6	535.0	532.5
59°	513.4	513.8	515.4	518.1	519.8	521.4	521.9	521.4	519.8	518.1	515.4
60°	496.3	496.8	498.7	501.2	503.0	504.6	504.9	504.6	503.0	501.2	498.7
61°	479.9	480.4	482.2	485.4	485.9	487.5	487.0	487.5	485.9	485.4	482.2
62°	463.4	464.0	465.6	468.0	469.7	471.5	471.5	471.5	469.7	468.0	465.6
63°	446.5	447.0	448.7	451.0	453.1	454.7	455.2	454.7	453.1	451.0	448.7
64°	428.8	429.7	431.4	433.7	435.8	437.3	437.9	437.3	435.8	433.7	431.4
65°	411.4	412.2	413.8	416.1	418.3	419.8	420.3	419.8	418.3	416.1	413.8
66°	393.9	394.6	396.3	398.5	400.7	402.1	402.8	402.1	400.7	398.5	396.3
67°	376.3	377.0	378.6	380.9	383.1	384.6	385.2	384.6	383.1	380.9	378.6
68°	358.7	359.4	360.9	363.1	365.4	366.8	367.4	366.8	365.4	363.1	360.9
69°	341.0	341.7	343.3	345.4	347.6	348.9	349.8	348.9	347.6	345.4	343.3
70°	323.3	323.9	325.5	327.8	329.8	331.2	331.9	331.2	329.8	327.8	325.5
71°	305.6	306.2	307.9	310.0	312.1	313.6	314.2	313.6	312.1	310.0	307.9
72°	288.1	288.6	290.2	292.3	294.4	295.6	296.4	295.6	294.4	292.3	290.2
73°	270.3	270.9	272.6	274.6	276.6	277.9	278.3	277.9	276.6	274.6	272.6
74°	252.6	253.3	255.0	257.1	259.0	260.3	260.8	260.3	259.0	257.1	255.0
75°	235.2	235.8	237.5	239.5	241.4	242.6	243.0	242.6	241.4	239.5	237.5
76°	217.7	218.3	220.1	222.0	223.9	225.0	225.4	225.0	223.9	222.0	220.1
77°	200.2	200.9	202.7	204.7	206.5	207.6	207.9	207.6	206.5	204.7	202.7
78°	182.5	183.3	185.3	187.4	189.1	190.1	190.2	190.1	189.1	187.4	185.3
79°	164.8	165.8	168.1	170.2	171.7	172.8	173.0	172.8	171.7	170.2	168.1
80°	147.3	148.2	150.6	153.1	154.6	155.6	155.7	155.6	154.6	153.1	150.6
81°	130.1	130.9	133.2	136.1	137.7	138.6	138.6	138.6	137.7	136.1	133.2
82°	113.1	113.9	116.1	118.9	120.9	121.7	121.8	121.7	120.9	118.9	116.1
83°	96.3	97.0	98.9	101.7	104.0	104.9	105.0	104.9	104.0	101.7	98.9
84°	80.1	80.7	82.4	84.9	87.5	88.6	88.6	88.6	87.5	84.9	82.4
85°	64.3	64.8	66.3	68.5	71.1	72.4	72.2	72.4	71.1	68.5	66.3
86°	49.0	49.5	50.9	52.7	54.6	55.7	55.4	55.7	54.6	52.7	50.9
87°	34.8	35.2	36.2	37.2	38.2	39.3	39.2	39.3	38.2	37.2	36.2
88°	22.0	22.2	22.8	23.5	23.4	24.6	24.3	24.6	23.4	23.5	22.8
89°	10.6	10.7	10.8	11.2	10.2	10.7	10.7	10.7	10.2	11.2	10.8



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 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-4000K

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: P973026
 CATALOG NUMBER: 22CGRK-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: P973026
CATALOG NUMBER: 22CGRK-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: P973026
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3
1°	1059.4	1058.5	1059.4	1058.9	1059.2	1058.9	1059.1	1058.5	1059.1	1058.9	1059.2
2°	1058.8	1057.9	1058.8	1058.5	1058.9	1058.4	1058.3	1058.1	1058.3	1058.4	1058.9
3°	1057.7	1057.3	1057.7	1057.5	1058.0	1057.7	1057.7	1057.3	1057.7	1057.7	1058.0
4°	1056.8	1055.8	1056.8	1056.5	1056.6	1056.4	1056.2	1056.3	1056.2	1056.4	1056.6
5°	1055.2	1054.6	1055.2	1055.1	1055.1	1055.1	1054.9	1054.9	1054.9	1055.1	1055.1
6°	1053.4	1052.5	1053.4	1053.0	1053.0	1053.0	1053.1	1053.5	1053.1	1053.0	1053.0
7°	1051.1	1050.9	1051.1	1050.9	1050.8	1050.7	1051.0	1051.4	1051.0	1050.7	1050.8
8°	1048.5	1048.3	1048.5	1048.5	1048.4	1048.6	1048.6	1048.7	1048.6	1048.6	1048.4
9°	1045.5	1045.6	1045.5	1045.7	1045.6	1045.5	1045.6	1046.0	1045.6	1045.5	1045.6
10°	1042.6	1042.3	1042.6	1042.2	1042.2	1042.4	1042.9	1043.1	1042.9	1042.4	1042.2
11°	1038.3	1039.0	1038.3	1038.6	1038.8	1038.7	1039.1	1039.2	1039.1	1038.7	1038.8
12°	1034.6	1035.0	1034.6	1034.8	1034.9	1035.0	1035.6	1035.9	1035.6	1035.0	1034.9
13°	1030.7	1031.0	1030.7	1030.6	1030.7	1031.1	1031.3	1031.6	1031.3	1031.1	1030.7
14°	1026.1	1026.4	1026.1	1026.1	1026.2	1026.6	1026.8	1027.3	1026.8	1026.6	1026.2
15°	1021.1	1021.5	1021.1	1021.4	1021.4	1022.0	1022.1	1022.7	1022.1	1022.0	1021.4
16°	1016.0	1016.7	1016.0	1016.2	1016.7	1017.0	1017.2	1017.6	1017.2	1017.0	1016.7
17°	1011.6	1011.5	1011.6	1011.5	1012.0	1011.5	1012.2	1012.3	1012.2	1011.5	1012.0
18°	1007.0	1007.2	1007.0	1007.1	1007.3	1007.4	1007.7	1007.7	1007.7	1007.4	1007.3
19°	1001.7	1002.4	1001.7	1002.3	1002.7	1002.8	1003.0	1003.2	1003.0	1002.8	1002.7
20°	995.3	995.7	995.3	995.8	996.3	996.7	997.3	997.6	997.3	996.7	996.3
21°	988.4	988.7	988.4	988.9	989.6	990.2	990.4	990.7	990.4	990.2	989.6
22°	981.2	981.5	981.2	981.8	982.2	983.0	983.4	983.8	983.4	983.0	982.2
23°	973.9	974.2	973.9	974.2	975.0	975.8	976.3	976.2	976.3	975.8	975.0
24°	966.0	965.8	966.0	966.4	967.5	968.0	968.5	968.8	968.5	968.0	967.5
25°	957.8	957.9	957.8	958.4	959.4	959.9	960.8	960.8	960.8	959.9	959.4
26°	949.5	949.2	949.5	950.0	951.0	951.9	952.3	952.3	952.3	951.9	951.0
27°	940.7	940.7	940.7	941.5	942.5	943.1	943.7	943.6	943.7	943.1	942.5
28°	931.8	931.3	931.8	932.6	933.5	934.3	934.7	934.7	934.7	934.3	933.5
29°	922.2	921.8	922.2	923.2	924.1	925.1	925.5	925.5	925.5	925.1	924.1
30°	912.7	912.2	912.7	913.6	914.6	915.5	916.0	915.8	916.0	915.5	914.6
31°	902.7	902.6	902.7	903.4	904.7	905.4	906.0	906.2	906.0	905.4	904.7
32°	892.6	892.4	892.6	893.4	894.4	895.4	896.0	896.0	896.0	895.4	894.4
33°	881.9	881.8	881.9	882.8	883.7	884.8	885.6	885.8	885.6	884.8	883.7
34°	871.2	870.6	871.2	871.9	872.9	874.2	874.9	875.0	874.9	874.2	872.9
35°	859.9	859.6	859.9	860.7	861.9	863.0	864.0	864.3	864.0	863.0	861.9
36°	848.7	848.1	848.7	849.2	850.3	851.7	852.7	853.1	852.7	851.7	850.3
37°	836.6	836.2	836.6	837.5	838.7	840.1	841.0	841.3	841.0	840.1	838.7
38°	824.6	824.4	824.6	825.5	826.6	828.2	828.9	829.7	828.9	828.2	826.6
39°	812.3	811.8	812.3	813.3	814.4	816.0	817.1	817.5	817.1	816.0	814.4
40°	799.6	799.1	799.6	800.8	801.6	803.6	804.4	805.1	804.4	803.6	801.6
41°	786.6	786.1	786.6	787.6	788.9	790.9	791.6	792.2	791.6	790.9	788.9
42°	773.7	772.9	773.7	774.7	775.9	777.9	778.6	779.6	778.6	777.9	775.9
43°	760.1	759.4	760.1	761.2	762.5	764.4	765.3	766.3	765.3	764.4	762.5
44°	746.4	745.6	746.4	747.8	748.9	751.0	751.8	752.5	751.8	751.0	748.9



TEST NUMBER: P973026
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	732.5	731.7	732.5	733.7	735.0	737.2	738.1	738.9	738.1	737.2	735.0
46°	718.2	717.8	718.2	719.5	720.8	723.0	724.0	724.7	724.0	723.0	720.8
47°	703.6	702.9	703.6	705.1	706.7	708.6	709.6	710.4	709.6	708.6	706.7
48°	688.9	688.2	688.9	690.5	692.0	694.2	695.1	696.1	695.1	694.2	692.0
49°	673.9	673.3	673.9	675.6	677.5	679.2	680.2	681.2	680.2	679.2	677.5
50°	658.7	658.3	658.7	660.5	662.4	664.3	665.5	666.2	665.5	664.3	662.4
51°	643.4	642.8	643.4	645.1	647.1	648.9	650.3	650.8	650.3	648.9	647.1
52°	627.9	627.2	627.9	629.5	631.7	633.6	634.7	635.3	634.7	633.6	631.7
53°	612.0	611.8	612.0	613.8	616.3	617.8	619.2	619.7	619.2	617.8	616.3
54°	596.2	595.5	596.2	597.8	600.1	601.9	603.4	603.7	603.4	601.9	600.1
55°	580.0	579.4	580.0	581.8	584.2	585.8	587.5	587.7	587.5	585.8	584.2
56°	563.7	563.2	563.7	565.3	568.0	569.8	571.1	571.4	571.1	569.8	568.0
57°	547.1	546.5	547.1	549.0	551.4	553.2	554.8	555.3	554.8	553.2	551.4
58°	530.6	529.9	530.6	532.5	535.0	536.6	538.2	538.6	538.2	536.6	535.0
59°	513.8	513.4	513.8	515.4	518.1	519.8	521.4	521.9	521.4	519.8	518.1
60°	496.8	496.3	496.8	498.7	501.2	503.0	504.6	504.9	504.6	503.0	501.2
61°	480.4	479.9	480.4	482.2	485.4	485.9	487.5	487.0	487.5	485.9	485.4
62°	464.0	463.4	464.0	465.6	468.0	469.7	471.5	471.5	471.5	469.7	468.0
63°	447.0	446.5	447.0	448.7	451.0	453.1	454.7	455.2	454.7	453.1	451.0
64°	429.7	428.8	429.7	431.4	433.7	435.8	437.3	437.9	437.3	435.8	433.7
65°	412.2	411.4	412.2	413.8	416.1	418.3	419.8	420.3	419.8	418.3	416.1
66°	394.6	393.9	394.6	396.3	398.5	400.7	402.1	402.8	402.1	400.7	398.5
67°	377.0	376.3	377.0	378.6	380.9	383.1	384.6	385.2	384.6	383.1	380.9
68°	359.4	358.7	359.4	360.9	363.1	365.4	366.8	367.4	366.8	365.4	363.1
69°	341.7	341.0	341.7	343.3	345.4	347.6	348.9	349.8	348.9	347.6	345.4
70°	323.9	323.3	323.9	325.5	327.8	329.8	331.2	331.9	331.2	329.8	327.8
71°	306.2	305.6	306.2	307.9	310.0	312.1	313.6	314.2	313.6	312.1	310.0
72°	288.6	288.1	288.6	290.2	292.3	294.4	295.6	296.4	295.6	294.4	292.3
73°	270.9	270.3	270.9	272.6	274.6	276.6	277.9	278.3	277.9	276.6	274.6
74°	253.3	252.6	253.3	255.0	257.1	259.0	260.3	260.8	260.3	259.0	257.1
75°	235.8	235.2	235.8	237.5	239.5	241.4	242.6	243.0	242.6	241.4	239.5
76°	218.3	217.7	218.3	220.1	222.0	223.9	225.0	225.4	225.0	223.9	222.0
77°	200.9	200.2	200.9	202.7	204.7	206.5	207.6	207.9	207.6	206.5	204.7
78°	183.3	182.5	183.3	185.3	187.4	189.1	190.1	190.2	190.1	189.1	187.4
79°	165.8	164.8	165.8	168.1	170.2	171.7	172.8	173.0	172.8	171.7	170.2
80°	148.2	147.3	148.2	150.6	153.1	154.6	155.6	155.7	155.6	154.6	153.1
81°	130.9	130.1	130.9	133.2	136.1	137.7	138.6	138.6	138.6	137.7	136.1
82°	113.9	113.1	113.9	116.1	118.9	120.9	121.7	121.8	121.7	120.9	118.9
83°	97.0	96.3	97.0	98.9	101.7	104.0	104.9	105.0	104.9	104.0	101.7
84°	80.7	80.1	80.7	82.4	84.9	87.5	88.6	88.6	88.6	87.5	84.9
85°	64.8	64.3	64.8	66.3	68.5	71.1	72.4	72.2	72.4	71.1	68.5
86°	49.5	49.0	49.5	50.9	52.7	54.6	55.7	55.4	55.7	54.6	52.7
87°	35.2	34.8	35.2	36.2	37.2	38.2	39.3	39.2	39.3	38.2	37.2
88°	22.2	22.0	22.2	22.8	23.5	23.4	24.6	24.3	24.6	23.4	23.5
89°	10.7	10.6	10.7	10.8	11.2	10.2	10.7	10.7	10.7	10.2	11.2



TEST NUMBER: P973026
 CATALOG NUMBER: 22CGRK-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: P973026
 CATALOG NUMBER: 22CGRK-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: P973026
CATALOG NUMBER: 22CGRK-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: P973026

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1059.3	1059.3	1059.3
1°	1058.9	1059.4	1058.5
2°	1058.5	1058.8	1057.9
3°	1057.5	1057.7	1057.3
4°	1056.5	1056.8	1055.8
5°	1055.1	1055.2	1054.6
6°	1053.0	1053.4	1052.5
7°	1050.9	1051.1	1050.9
8°	1048.5	1048.5	1048.3
9°	1045.7	1045.5	1045.6
10°	1042.2	1042.6	1042.3
11°	1038.6	1038.3	1039.0
12°	1034.8	1034.6	1035.0
13°	1030.6	1030.7	1031.0
14°	1026.1	1026.1	1026.4
15°	1021.4	1021.1	1021.5
16°	1016.2	1016.0	1016.7
17°	1011.5	1011.6	1011.5
18°	1007.1	1007.0	1007.2
19°	1002.3	1001.7	1002.4
20°	995.8	995.3	995.7
21°	988.9	988.4	988.7
22°	981.8	981.2	981.5
23°	974.2	973.9	974.2
24°	966.4	966.0	965.8
25°	958.4	957.8	957.9
26°	950.0	949.5	949.2
27°	941.5	940.7	940.7
28°	932.6	931.8	931.3
29°	923.2	922.2	921.8
30°	913.6	912.7	912.2
31°	903.4	902.7	902.6
32°	893.4	892.6	892.4
33°	882.8	881.9	881.8
34°	871.9	871.2	870.6
35°	860.7	859.9	859.6
36°	849.2	848.7	848.1
37°	837.5	836.6	836.2
38°	825.5	824.6	824.4
39°	813.3	812.3	811.8
40°	800.8	799.6	799.1
41°	787.6	786.6	786.1
42°	774.7	773.7	772.9
43°	761.2	760.1	759.4
44°	747.8	746.4	745.6



TEST NUMBER: P973026

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	733.7	732.5	731.7
46°	719.5	718.2	717.8
47°	705.1	703.6	702.9
48°	690.5	688.9	688.2
49°	675.6	673.9	673.3
50°	660.5	658.7	658.3
51°	645.1	643.4	642.8
52°	629.5	627.9	627.2
53°	613.8	612.0	611.8
54°	597.8	596.2	595.5
55°	581.8	580.0	579.4
56°	565.3	563.7	563.2
57°	549.0	547.1	546.5
58°	532.5	530.6	529.9
59°	515.4	513.8	513.4
60°	498.7	496.8	496.3
61°	482.2	480.4	479.9
62°	465.6	464.0	463.4
63°	448.7	447.0	446.5
64°	431.4	429.7	428.8
65°	413.8	412.2	411.4
66°	396.3	394.6	393.9
67°	378.6	377.0	376.3
68°	360.9	359.4	358.7
69°	343.3	341.7	341.0
70°	325.5	323.9	323.3
71°	307.9	306.2	305.6
72°	290.2	288.6	288.1
73°	272.6	270.9	270.3
74°	255.0	253.3	252.6
75°	237.5	235.8	235.2
76°	220.1	218.3	217.7
77°	202.7	200.9	200.2
78°	185.3	183.3	182.5
79°	168.1	165.8	164.8
80°	150.6	148.2	147.3
81°	133.2	130.9	130.1
82°	116.1	113.9	113.1
83°	98.9	97.0	96.3
84°	82.4	80.7	80.1
85°	66.3	64.8	64.3
86°	50.9	49.5	49.0
87°	36.2	35.2	34.8
88°	22.8	22.2	22.0
89°	10.8	10.7	10.6



TEST NUMBER: P973026
CATALOG NUMBER: 22CGRK-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: P973026
CATALOG NUMBER: 22CGRK-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: P973026
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973026
 CATALOG NUMBER: 22CGRK-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	16.26	17.93	16.62	18.24	18.56	16.35	18.02	16.71	18.33	18.64
	3H	18.20	19.72	18.58	20.04	20.40	18.32	19.83	18.69	20.16	20.52
	4H	18.96	20.39	19.36	20.74	21.11	19.10	20.53	19.50	20.87	21.25
	6H	19.56	20.88	19.97	21.25	21.64	19.72	21.05	20.13	21.41	21.80
	8H	19.75	21.02	20.18	21.41	21.81	19.94	21.21	20.36	21.59	21.99
	12H	19.84	21.06	20.27	21.44	21.87	20.05	21.26	20.48	21.64	22.07
4H	2H	16.95	18.38	17.35	18.73	19.10	17.02	18.45	17.42	18.80	19.17
	3H	19.12	20.32	19.53	20.72	21.12	19.22	20.42	19.63	20.82	21.22
	4H	20.02	21.11	20.45	21.52	21.96	20.14	21.23	20.57	21.64	22.08
	6H	20.75	21.71	21.20	22.15	22.60	20.90	21.86	21.36	22.30	22.75
	8H	21.00	21.90	21.46	22.34	22.80	21.18	22.08	21.64	22.52	22.98
	12H	21.15	21.96	21.63	22.44	22.91	21.36	22.17	21.84	22.64	23.11
8H	4H	20.39	21.29	20.85	21.73	22.20	20.50	21.40	20.96	21.84	22.30
	6H	21.26	22.01	21.76	22.50	22.97	21.40	22.15	21.90	22.64	23.11
	8H	21.60	22.27	22.10	22.77	23.26	21.77	22.44	22.28	22.95	23.43
	12H	21.84	22.44	22.34	22.92	23.48	22.05	22.65	22.56	23.14	23.69
12H	4H	20.45	21.26	20.93	21.73	22.20	20.55	21.35	21.03	21.83	22.30
	6H	21.35	22.02	21.85	22.53	23.01	21.48	22.16	21.99	22.66	23.14
	8H	21.75	22.34	22.25	22.83	23.39	21.91	22.51	22.42	23.00	23.56