

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: P973025

Luminaire Tested: 22CGRK-L3C3-UNV-MP4-MID-3500K

Issue Date: 3/12/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973025  
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-3500K  
Description: 2x2 CGRK Backlit Panel Retrofit Kit at, MID lumen, 3500K CCT settings  
Light Source: -  
Ballast/Driver: -

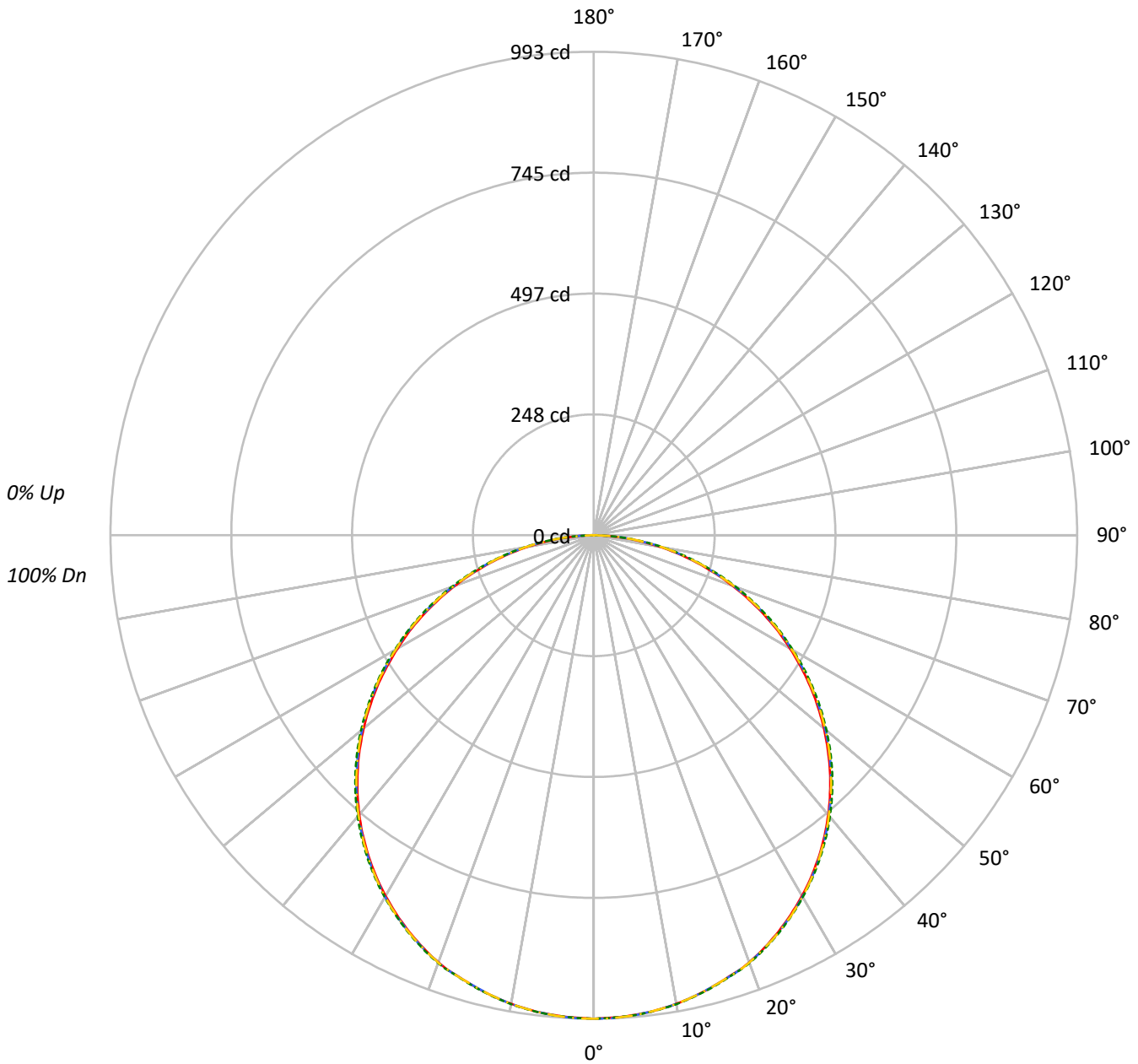
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3000.0 lumens  
Efficiency: N/A  
Efficacy: 140.2 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): 21.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P973025  
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

### 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	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	59	59	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	51	51	51	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	27	27	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	25	25	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	3180	3180	3180	3180
5°	3178	3179	3178	3179
10°	3177	3180	3177	3180
15°	3175	3179	3175	3179
20°	3181	3187	3181	3187
25°	3173	3183	3173	3183
30°	3162	3175	3162	3175
35°	3151	3167	3151	3167
40°	3132	3155	3132	3155
45°	3107	3138	3107	3138
50°	3075	3111	3075	3111
55°	3033	3076	3033	3076
60°	2980	3031	2980	3031
65°	2923	2986	2923	2986
70°	2838	2913	2838	2913
75°	2728	2819	2728	2819
80°	2547	2691	2547	2691
85°	2216	2488	2216	2488

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3138 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	3.1
10°-20°	270.7	9.0
20°-30°	414.6	13.8
30°-40°	505.5	16.8
40°-50°	531.6	17.7
50°-60°	489.0	16.3
60°-70°	385.5	12.8
70°-80°	236.9	7.9
80°-90°	72.2	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°	779.3	26.0
0°-40°	1284.8	42.8
0°-60°	2305.4	76.8
0°-90°	3000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	993	993	993	993	993	
5°	989	989	989	989	989	94
15°	958	959	958	959	958	271
25°	898	901	898	901	898	414
35°	806	810	806	810	806	504
45°	686	693	686	693	686	529
55°	543	551	543	551	543	485
65°	386	394	386	394	386	381
75°	220	228	220	228	220	233
85°	60	68	60	68	60	65
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: P973025  
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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
1°	992.4	993.2	992.7	993.0	992.7	992.9	992.3	992.9	992.7	993.0	992.7
2°	991.8	992.6	992.3	992.7	992.2	992.2	992.0	992.2	992.2	992.7	992.3
3°	991.2	991.6	991.4	991.9	991.6	991.6	991.2	991.6	991.6	991.9	991.4
4°	989.8	990.7	990.4	990.6	990.4	990.2	990.3	990.2	990.4	990.6	990.4
5°	988.6	989.3	989.1	989.1	989.1	988.9	988.9	988.9	989.1	989.1	989.1
6°	986.7	987.6	987.2	987.2	987.2	987.3	987.6	987.3	987.2	987.2	987.2
7°	985.3	985.4	985.2	985.1	985.0	985.3	985.7	985.3	985.0	985.1	985.2
8°	982.7	983.0	983.0	982.9	983.0	983.0	983.2	983.0	983.0	982.9	983.0
9°	980.2	980.1	980.4	980.3	980.1	980.3	980.6	980.3	980.1	980.3	980.4
10°	977.1	977.4	977.1	977.1	977.3	977.7	977.9	977.7	977.3	977.1	977.1
11°	974.0	973.5	973.7	973.9	973.8	974.2	974.2	974.2	973.8	973.9	973.7
12°	970.3	969.9	970.1	970.2	970.3	970.9	971.1	970.9	970.3	970.2	970.1
13°	966.5	966.3	966.2	966.3	966.7	966.8	967.1	966.8	966.7	966.3	966.2
14°	962.2	962.0	961.9	962.1	962.4	962.6	963.1	962.6	962.4	962.1	961.9
15°	957.7	957.3	957.5	957.5	958.1	958.3	958.8	958.3	958.1	957.5	957.5
16°	953.2	952.5	952.7	953.2	953.4	953.6	954.0	953.6	953.4	953.2	952.7
17°	948.3	948.4	948.3	948.8	948.3	949.0	949.0	949.0	948.3	948.8	948.3
18°	944.2	944.1	944.2	944.4	944.4	944.7	944.7	944.7	944.4	944.4	944.2
19°	939.8	939.1	939.7	940.0	940.1	940.3	940.5	940.3	940.1	940.0	939.7
20°	933.5	933.1	933.6	934.1	934.4	934.9	935.2	934.9	934.4	934.1	933.6
21°	926.9	926.6	927.1	927.7	928.3	928.5	928.7	928.5	928.3	927.7	927.1
22°	920.2	919.9	920.5	920.8	921.5	921.9	922.3	921.9	921.5	920.8	920.5
23°	913.3	913.1	913.3	914.1	914.9	915.3	915.2	915.3	914.9	914.1	913.3
24°	905.4	905.6	906.0	907.1	907.5	907.9	908.2	907.9	907.5	907.1	906.0
25°	898.1	897.9	898.5	899.4	899.9	900.7	900.7	900.7	899.9	899.4	898.5
26°	889.9	890.2	890.6	891.5	892.4	892.8	892.8	892.8	892.4	891.5	890.6
27°	881.9	881.9	882.7	883.6	884.2	884.7	884.6	884.7	884.2	883.6	882.7
28°	873.1	873.5	874.3	875.1	875.9	876.3	876.3	876.3	875.9	875.1	874.3
29°	864.2	864.5	865.5	866.3	867.3	867.6	867.6	867.6	867.3	866.3	865.5
30°	855.2	855.7	856.5	857.4	858.3	858.8	858.6	858.8	858.3	857.4	856.5
31°	846.2	846.2	847.0	848.1	848.8	849.4	849.6	849.4	848.8	848.1	847.0
32°	836.6	836.8	837.6	838.5	839.4	840.0	840.0	840.0	839.4	838.5	837.6
33°	826.7	826.7	827.6	828.5	829.5	830.3	830.5	830.3	829.5	828.5	827.6
34°	816.2	816.7	817.4	818.3	819.5	820.2	820.3	820.2	819.5	818.3	817.4
35°	805.9	806.1	806.9	808.0	809.1	810.0	810.2	810.0	809.1	808.0	806.9
36°	795.1	795.6	796.1	797.1	798.5	799.5	799.7	799.5	798.5	797.1	796.1
37°	783.9	784.3	785.2	786.3	787.6	788.4	788.7	788.4	787.6	786.3	785.2
38°	772.9	773.0	773.9	774.9	776.4	777.1	777.9	777.1	776.4	774.9	773.9
39°	761.1	761.5	762.4	763.5	765.0	766.0	766.4	766.0	765.0	763.5	762.4
40°	749.1	749.6	750.7	751.5	753.4	754.2	754.8	754.2	753.4	751.5	750.7
41°	737.0	737.5	738.3	739.6	741.5	742.1	742.7	742.1	741.5	739.6	738.3
42°	724.6	725.3	726.3	727.4	729.3	730.0	730.8	730.0	729.3	727.4	726.3
43°	711.9	712.6	713.6	714.8	716.6	717.5	718.4	717.5	716.6	714.8	713.6
44°	699.0	699.7	701.1	702.1	704.0	704.8	705.5	704.8	704.0	702.1	701.1



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	686.0	686.7	687.8	689.1	691.1	691.9	692.8	691.9	691.1	689.1	687.8
46°	673.0	673.3	674.6	675.8	677.8	678.8	679.4	678.8	677.8	675.8	674.6
47°	659.0	659.7	661.0	662.5	664.3	665.2	666.0	665.2	664.3	662.5	661.0
48°	645.2	645.8	647.4	648.8	650.9	651.7	652.5	651.7	650.9	648.8	647.4
49°	631.2	631.8	633.4	635.1	636.8	637.7	638.6	637.7	636.8	635.1	633.4
50°	617.1	617.6	619.2	621.0	622.8	623.9	624.5	623.9	622.8	621.0	619.2
51°	602.6	603.2	604.8	606.6	608.3	609.7	610.1	609.7	608.3	606.6	604.8
52°	588.0	588.6	590.1	592.3	594.0	595.1	595.6	595.1	594.0	592.3	590.1
53°	573.5	573.8	575.5	577.7	579.2	580.5	581.0	580.5	579.2	577.7	575.5
54°	558.3	558.9	560.4	562.6	564.3	565.7	566.0	565.7	564.3	562.6	560.4
55°	543.2	543.8	545.5	547.7	549.2	550.7	550.9	550.7	549.2	547.7	545.5
56°	528.0	528.4	530.0	532.5	534.1	535.4	535.6	535.4	534.1	532.5	530.0
57°	512.4	512.9	514.6	517.0	518.6	520.1	520.6	520.1	518.6	517.0	514.6
58°	496.8	497.4	499.2	501.5	503.1	504.6	505.0	504.6	503.1	501.5	499.2
59°	481.3	481.7	483.2	485.7	487.3	488.8	489.2	488.8	487.3	485.7	483.2
60°	465.3	465.8	467.5	469.8	471.6	473.1	473.3	473.1	471.6	469.8	467.5
61°	449.9	450.4	452.0	455.1	455.6	457.1	456.5	457.1	455.6	455.1	452.0
62°	434.4	435.0	436.5	438.7	440.3	442.0	442.1	442.0	440.3	438.7	436.5
63°	418.6	419.0	420.7	422.8	424.7	426.2	426.8	426.2	424.7	422.8	420.7
64°	402.0	402.8	404.4	406.6	408.6	410.0	410.5	410.0	408.6	406.6	404.4
65°	385.7	386.5	388.0	390.1	392.1	393.5	394.0	393.5	392.1	390.1	388.0
66°	369.3	369.9	371.5	373.6	375.6	377.0	377.6	377.0	375.6	373.6	371.5
67°	352.8	353.5	354.9	357.1	359.1	360.5	361.1	360.5	359.1	357.1	354.9
68°	336.3	336.9	338.4	340.4	342.6	343.8	344.4	343.8	342.6	340.4	338.4
69°	319.7	320.3	321.9	323.8	325.9	327.1	327.9	327.1	325.9	323.8	321.9
70°	303.1	303.7	305.2	307.3	309.2	310.5	311.1	310.5	309.2	307.3	305.2
71°	286.5	287.1	288.6	290.6	292.6	294.0	294.6	294.0	292.6	290.6	288.6
72°	270.1	270.6	272.1	274.1	276.0	277.2	277.8	277.2	276.0	274.1	272.1
73°	253.4	254.0	255.6	257.4	259.4	260.5	261.0	260.5	259.4	257.4	255.6
74°	236.9	237.5	239.1	241.0	242.8	244.1	244.5	244.1	242.8	241.0	239.1
75°	220.5	221.1	222.7	224.6	226.3	227.5	227.8	227.5	226.3	224.6	222.7
76°	204.1	204.6	206.4	208.1	209.9	211.0	211.3	211.0	209.9	208.1	206.4
77°	187.7	188.3	190.0	191.9	193.6	194.6	194.9	194.6	193.6	191.9	190.0
78°	171.1	171.9	173.7	175.7	177.3	178.3	178.3	178.3	177.3	175.7	173.7
79°	154.5	155.4	157.6	159.5	161.0	162.0	162.2	162.0	161.0	159.5	157.6
80°	138.1	138.9	141.2	143.6	145.0	145.9	145.9	145.9	145.0	143.6	141.2
81°	122.0	122.8	124.9	127.6	129.1	129.9	129.9	129.9	129.1	127.6	124.9
82°	106.1	106.8	108.8	111.5	113.3	114.1	114.2	114.1	113.3	111.5	108.8
83°	90.3	90.9	92.7	95.3	97.5	98.4	98.4	98.4	97.5	95.3	92.7
84°	75.1	75.7	77.2	79.6	82.0	83.1	83.1	83.1	82.0	79.6	77.2
85°	60.3	60.7	62.2	64.2	66.6	67.9	67.7	67.9	66.6	64.2	62.2
86°	46.0	46.4	47.7	49.4	51.1	52.2	52.0	52.2	51.1	49.4	47.7
87°	32.6	33.0	34.0	34.9	35.8	36.9	36.7	36.9	35.8	34.9	34.0
88°	20.6	20.8	21.4	22.0	21.9	23.0	22.8	23.0	21.9	22.0	21.4
89°	9.9	10.1	10.1	10.5	9.6	10.0	10.0	10.0	9.6	10.5	10.1



TEST NUMBER: P973025  
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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: P973025  
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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: P973025  
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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: P973025  
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1	993.1
1°	993.2	992.4	993.2	992.7	993.0	992.7	992.9	992.3	992.9	992.7	993.0
2°	992.6	991.8	992.6	992.3	992.7	992.2	992.2	992.0	992.2	992.2	992.7
3°	991.6	991.2	991.6	991.4	991.9	991.6	991.6	991.2	991.6	991.6	991.9
4°	990.7	989.8	990.7	990.4	990.6	990.4	990.2	990.3	990.2	990.4	990.6
5°	989.3	988.6	989.3	989.1	989.1	989.1	988.9	988.9	988.9	989.1	989.1
6°	987.6	986.7	987.6	987.2	987.2	987.2	987.3	987.6	987.3	987.2	987.2
7°	985.4	985.3	985.4	985.2	985.1	985.0	985.3	985.7	985.3	985.0	985.1
8°	983.0	982.7	983.0	983.0	982.9	983.0	983.0	983.2	983.0	983.0	982.9
9°	980.1	980.2	980.1	980.4	980.3	980.1	980.3	980.6	980.3	980.1	980.3
10°	977.4	977.1	977.4	977.1	977.1	977.3	977.7	977.9	977.7	977.3	977.1
11°	973.5	974.0	973.5	973.7	973.9	973.8	974.2	974.2	974.2	973.8	973.9
12°	969.9	970.3	969.9	970.1	970.2	970.3	970.9	971.1	970.9	970.3	970.2
13°	966.3	966.5	966.3	966.2	966.3	966.7	966.8	967.1	966.8	966.7	966.3
14°	962.0	962.2	962.0	961.9	962.1	962.4	962.6	963.1	962.6	962.4	962.1
15°	957.3	957.7	957.3	957.5	957.5	958.1	958.3	958.8	958.3	958.1	957.5
16°	952.5	953.2	952.5	952.7	953.2	953.4	953.6	954.0	953.6	953.4	953.2
17°	948.4	948.3	948.4	948.3	948.8	948.3	949.0	949.0	949.0	948.3	948.8
18°	944.1	944.2	944.1	944.2	944.4	944.4	944.7	944.7	944.7	944.4	944.4
19°	939.1	939.8	939.1	939.7	940.0	940.1	940.3	940.5	940.3	940.1	940.0
20°	933.1	933.5	933.1	933.6	934.1	934.4	934.9	935.2	934.9	934.4	934.1
21°	926.6	926.9	926.6	927.1	927.7	928.3	928.5	928.7	928.5	928.3	927.7
22°	919.9	920.2	919.9	920.5	920.8	921.5	921.9	922.3	921.9	921.5	920.8
23°	913.1	913.3	913.1	913.3	914.1	914.9	915.3	915.2	915.3	914.9	914.1
24°	905.6	905.4	905.6	906.0	907.1	907.5	907.9	908.2	907.9	907.5	907.1
25°	897.9	898.1	897.9	898.5	899.4	899.9	900.7	900.7	900.7	899.9	899.4
26°	890.2	889.9	890.2	890.6	891.5	892.4	892.8	892.8	892.8	892.4	891.5
27°	881.9	881.9	881.9	882.7	883.6	884.2	884.7	884.6	884.7	884.2	883.6
28°	873.5	873.1	873.5	874.3	875.1	875.9	876.3	876.3	876.3	875.9	875.1
29°	864.5	864.2	864.5	865.5	866.3	867.3	867.6	867.6	867.6	867.3	866.3
30°	855.7	855.2	855.7	856.5	857.4	858.3	858.8	858.6	858.8	858.3	857.4
31°	846.2	846.2	846.2	847.0	848.1	848.8	849.4	849.6	849.4	848.8	848.1
32°	836.8	836.6	836.8	837.6	838.5	839.4	840.0	840.0	840.0	839.4	838.5
33°	826.7	826.7	826.7	827.6	828.5	829.5	830.3	830.5	830.3	829.5	828.5
34°	816.7	816.2	816.7	817.4	818.3	819.5	820.2	820.3	820.2	819.5	818.3
35°	806.1	805.9	806.1	806.9	808.0	809.1	810.0	810.2	810.0	809.1	808.0
36°	795.6	795.1	795.6	796.1	797.1	798.5	799.5	799.7	799.5	798.5	797.1
37°	784.3	783.9	784.3	785.2	786.3	787.6	788.4	788.7	788.4	787.6	786.3
38°	773.0	772.9	773.0	773.9	774.9	776.4	777.1	777.9	777.1	776.4	774.9
39°	761.5	761.1	761.5	762.4	763.5	765.0	766.0	766.4	766.0	765.0	763.5
40°	749.6	749.1	749.6	750.7	751.5	753.4	754.2	754.8	754.2	753.4	751.5
41°	737.5	737.0	737.5	738.3	739.6	741.5	742.1	742.7	742.1	741.5	739.6
42°	725.3	724.6	725.3	726.3	727.4	729.3	730.0	730.8	730.0	729.3	727.4
43°	712.6	711.9	712.6	713.6	714.8	716.6	717.5	718.4	717.5	716.6	714.8
44°	699.7	699.0	699.7	701.1	702.1	704.0	704.8	705.5	704.8	704.0	702.1



TEST NUMBER: P973025  
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	686.7	686.0	686.7	687.8	689.1	691.1	691.9	692.8	691.9	691.1	689.1
46°	673.3	673.0	673.3	674.6	675.8	677.8	678.8	679.4	678.8	677.8	675.8
47°	659.7	659.0	659.7	661.0	662.5	664.3	665.2	666.0	665.2	664.3	662.5
48°	645.8	645.2	645.8	647.4	648.8	650.9	651.7	652.5	651.7	650.9	648.8
49°	631.8	631.2	631.8	633.4	635.1	636.8	637.7	638.6	637.7	636.8	635.1
50°	617.6	617.1	617.6	619.2	621.0	622.8	623.9	624.5	623.9	622.8	621.0
51°	603.2	602.6	603.2	604.8	606.6	608.3	609.7	610.1	609.7	608.3	606.6
52°	588.6	588.0	588.6	590.1	592.3	594.0	595.1	595.6	595.1	594.0	592.3
53°	573.8	573.5	573.8	575.5	577.7	579.2	580.5	581.0	580.5	579.2	577.7
54°	558.9	558.3	558.9	560.4	562.6	564.3	565.7	566.0	565.7	564.3	562.6
55°	543.8	543.2	543.8	545.5	547.7	549.2	550.7	550.9	550.7	549.2	547.7
56°	528.4	528.0	528.4	530.0	532.5	534.1	535.4	535.6	535.4	534.1	532.5
57°	512.9	512.4	512.9	514.6	517.0	518.6	520.1	520.6	520.1	518.6	517.0
58°	497.4	496.8	497.4	499.2	501.5	503.1	504.6	505.0	504.6	503.1	501.5
59°	481.7	481.3	481.7	483.2	485.7	487.3	488.8	489.2	488.8	487.3	485.7
60°	465.8	465.3	465.8	467.5	469.8	471.6	473.1	473.3	473.1	471.6	469.8
61°	450.4	449.9	450.4	452.0	455.1	455.6	457.1	456.5	457.1	455.6	455.1
62°	435.0	434.4	435.0	436.5	438.7	440.3	442.0	442.1	442.0	440.3	438.7
63°	419.0	418.6	419.0	420.7	422.8	424.7	426.2	426.8	426.2	424.7	422.8
64°	402.8	402.0	402.8	404.4	406.6	408.6	410.0	410.5	410.0	408.6	406.6
65°	386.5	385.7	386.5	388.0	390.1	392.1	393.5	394.0	393.5	392.1	390.1
66°	369.9	369.3	369.9	371.5	373.6	375.6	377.0	377.6	377.0	375.6	373.6
67°	353.5	352.8	353.5	354.9	357.1	359.1	360.5	361.1	360.5	359.1	357.1
68°	336.9	336.3	336.9	338.4	340.4	342.6	343.8	344.4	343.8	342.6	340.4
69°	320.3	319.7	320.3	321.9	323.8	325.9	327.1	327.9	327.1	325.9	323.8
70°	303.7	303.1	303.7	305.2	307.3	309.2	310.5	311.1	310.5	309.2	307.3
71°	287.1	286.5	287.1	288.6	290.6	292.6	294.0	294.6	294.0	292.6	290.6
72°	270.6	270.1	270.6	272.1	274.1	276.0	277.2	277.8	277.2	276.0	274.1
73°	254.0	253.4	254.0	255.6	257.4	259.4	260.5	261.0	260.5	259.4	257.4
74°	237.5	236.9	237.5	239.1	241.0	242.8	244.1	244.5	244.1	242.8	241.0
75°	221.1	220.5	221.1	222.7	224.6	226.3	227.5	227.8	227.5	226.3	224.6
76°	204.6	204.1	204.6	206.4	208.1	209.9	211.0	211.3	211.0	209.9	208.1
77°	188.3	187.7	188.3	190.0	191.9	193.6	194.6	194.9	194.6	193.6	191.9
78°	171.9	171.1	171.9	173.7	175.7	177.3	178.3	178.3	178.3	177.3	175.7
79°	155.4	154.5	155.4	157.6	159.5	161.0	162.0	162.2	162.0	161.0	159.5
80°	138.9	138.1	138.9	141.2	143.6	145.0	145.9	145.9	145.9	145.0	143.6
81°	122.8	122.0	122.8	124.9	127.6	129.1	129.9	129.9	129.9	129.1	127.6
82°	106.8	106.1	106.8	108.8	111.5	113.3	114.1	114.2	114.1	113.3	111.5
83°	90.9	90.3	90.9	92.7	95.3	97.5	98.4	98.4	98.4	97.5	95.3
84°	75.7	75.1	75.7	77.2	79.6	82.0	83.1	83.1	83.1	82.0	79.6
85°	60.7	60.3	60.7	62.2	64.2	66.6	67.9	67.7	67.9	66.6	64.2
86°	46.4	46.0	46.4	47.7	49.4	51.1	52.2	52.0	52.2	51.1	49.4
87°	33.0	32.6	33.0	34.0	34.9	35.8	36.9	36.7	36.9	35.8	34.9
88°	20.8	20.6	20.8	21.4	22.0	21.9	23.0	22.8	23.0	21.9	22.0
89°	10.1	9.9	10.1	10.1	10.5	9.6	10.0	10.0	10.0	9.6	10.5



TEST NUMBER: P973025  
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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: P973025  
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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: P973025  
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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: P973025  
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	993.1	993.1	993.1
1°	992.7	993.2	992.4
2°	992.3	992.6	991.8
3°	991.4	991.6	991.2
4°	990.4	990.7	989.8
5°	989.1	989.3	988.6
6°	987.2	987.6	986.7
7°	985.2	985.4	985.3
8°	983.0	983.0	982.7
9°	980.4	980.1	980.2
10°	977.1	977.4	977.1
11°	973.7	973.5	974.0
12°	970.1	969.9	970.3
13°	966.2	966.3	966.5
14°	961.9	962.0	962.2
15°	957.5	957.3	957.7
16°	952.7	952.5	953.2
17°	948.3	948.4	948.3
18°	944.2	944.1	944.2
19°	939.7	939.1	939.8
20°	933.6	933.1	933.5
21°	927.1	926.6	926.9
22°	920.5	919.9	920.2
23°	913.3	913.1	913.3
24°	906.0	905.6	905.4
25°	898.5	897.9	898.1
26°	890.6	890.2	889.9
27°	882.7	881.9	881.9
28°	874.3	873.5	873.1
29°	865.5	864.5	864.2
30°	856.5	855.7	855.2
31°	847.0	846.2	846.2
32°	837.6	836.8	836.6
33°	827.6	826.7	826.7
34°	817.4	816.7	816.2
35°	806.9	806.1	805.9
36°	796.1	795.6	795.1
37°	785.2	784.3	783.9
38°	773.9	773.0	772.9
39°	762.4	761.5	761.1
40°	750.7	749.6	749.1
41°	738.3	737.5	737.0
42°	726.3	725.3	724.6
43°	713.6	712.6	711.9
44°	701.1	699.7	699.0





TEST NUMBER: P973025

CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	687.8	686.7	686.0
46°	674.6	673.3	673.0
47°	661.0	659.7	659.0
48°	647.4	645.8	645.2
49°	633.4	631.8	631.2
50°	619.2	617.6	617.1
51°	604.8	603.2	602.6
52°	590.1	588.6	588.0
53°	575.5	573.8	573.5
54°	560.4	558.9	558.3
55°	545.5	543.8	543.2
56°	530.0	528.4	528.0
57°	514.6	512.9	512.4
58°	499.2	497.4	496.8
59°	483.2	481.7	481.3
60°	467.5	465.8	465.3
61°	452.0	450.4	449.9
62°	436.5	435.0	434.4
63°	420.7	419.0	418.6
64°	404.4	402.8	402.0
65°	388.0	386.5	385.7
66°	371.5	369.9	369.3
67°	354.9	353.5	352.8
68°	338.4	336.9	336.3
69°	321.9	320.3	319.7
70°	305.2	303.7	303.1
71°	288.6	287.1	286.5
72°	272.1	270.6	270.1
73°	255.6	254.0	253.4
74°	239.1	237.5	236.9
75°	222.7	221.1	220.5
76°	206.4	204.6	204.1
77°	190.0	188.3	187.7
78°	173.7	171.9	171.1
79°	157.6	155.4	154.5
80°	141.2	138.9	138.1
81°	124.9	122.8	122.0
82°	108.8	106.8	106.1
83°	92.7	90.9	90.3
84°	77.2	75.7	75.1
85°	62.2	60.7	60.3
86°	47.7	46.4	46.0
87°	34.0	33.0	32.6
88°	21.4	20.8	20.6
89°	10.1	10.1	9.9



TEST NUMBER: P973025  
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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: P973025  
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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: P973025  
CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973025  
 CATALOG NUMBER: 22CGRK-L3C3-UNV-MP4-MID-3500K

**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	16.03	17.70	16.40	18.02	18.33	16.12	17.79	16.49	18.11	18.42
	3H	17.98	19.49	18.35	19.82	20.18	18.09	19.61	18.47	19.93	20.29
	4H	18.74	20.17	19.14	20.51	20.89	18.87	20.30	19.27	20.65	21.02
	6H	19.33	20.66	19.74	21.02	21.41	19.49	20.82	19.90	21.18	21.57
	8H	19.53	20.80	19.95	21.19	21.58	19.71	20.98	20.14	21.37	21.77
	12H	19.62	20.84	20.05	21.22	21.65	19.82	21.04	20.25	21.42	21.85
4H	2H	16.73	18.16	17.12	18.50	18.88	16.80	18.22	17.19	18.57	18.95
	3H	18.89	20.10	19.30	20.49	20.89	18.99	20.20	19.40	20.59	20.99
	4H	19.79	20.89	20.23	21.30	21.73	19.92	21.01	20.35	21.42	21.85
	6H	20.52	21.48	20.98	21.92	22.37	20.68	21.64	21.13	22.08	22.53
	8H	20.78	21.67	21.23	22.11	22.58	20.96	21.85	21.41	22.29	22.76
	12H	20.93	21.74	21.41	22.21	22.68	21.14	21.95	21.62	22.42	22.89
8H	4H	20.17	21.07	20.63	21.51	21.97	20.27	21.17	20.73	21.61	22.08
	6H	21.04	21.79	21.53	22.27	22.75	21.18	21.93	21.67	22.42	22.89
	8H	21.37	22.05	21.88	22.55	23.03	21.55	22.22	22.05	22.72	23.21
	12H	21.62	22.21	22.12	22.70	23.26	21.83	22.42	22.33	22.91	23.47
12H	4H	20.22	21.03	20.70	21.51	21.97	20.32	21.13	20.80	21.60	22.07
	6H	21.12	21.80	21.63	22.30	22.79	21.26	21.93	21.76	22.44	22.92
	8H	21.52	22.12	22.03	22.61	23.17	21.69	22.29	22.19	22.77	23.33