

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: CORELITE

Report Number: P935182

Luminaire Tested: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935182
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

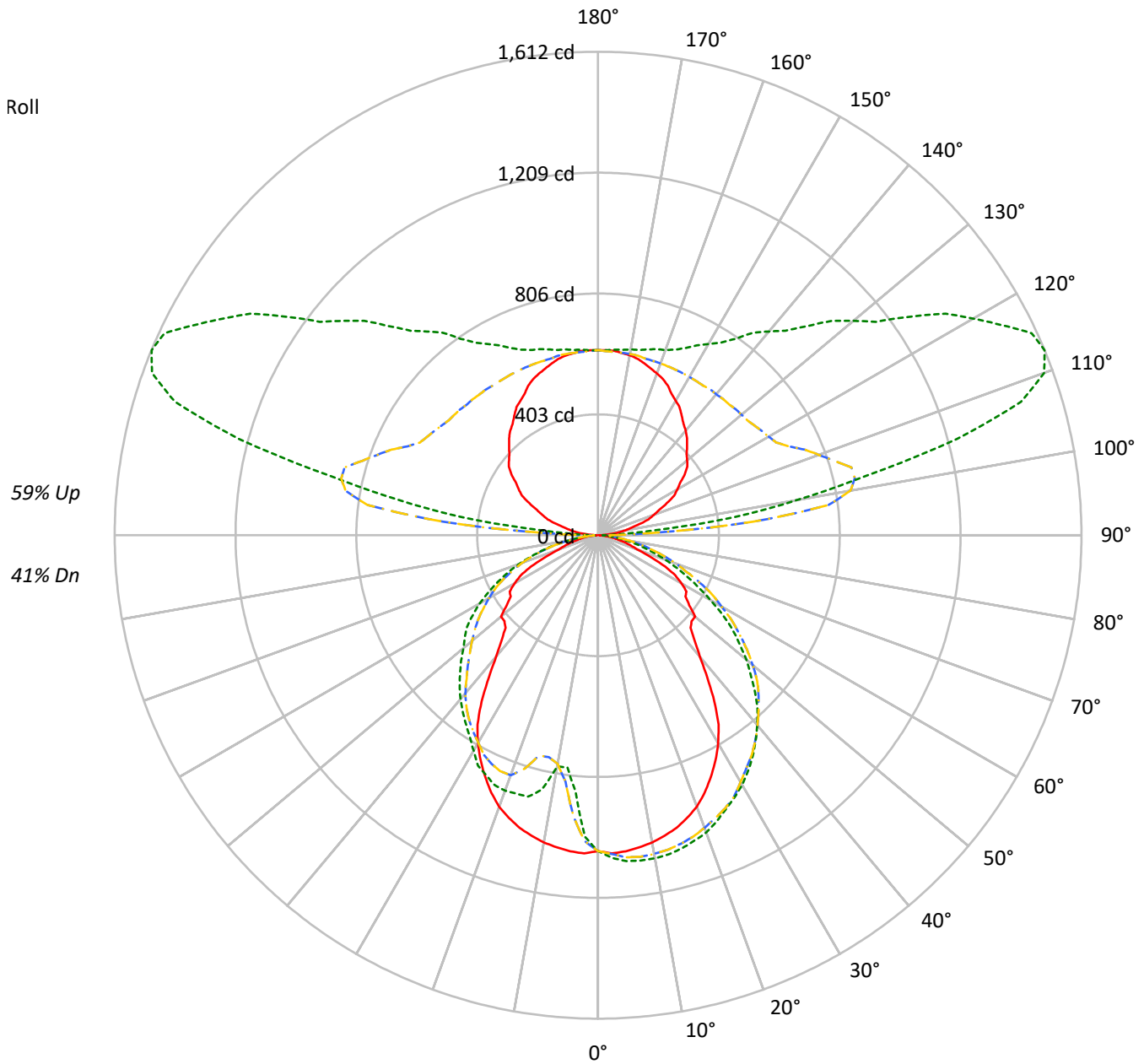
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6733.9 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P935182
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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9770	9770	9770	9770
5°	9832	9863	9832	7755
10°	9755	9715	9755	6946
15°	9638	9505	9638	7937
20°	9426	9255	9426	7953
25°	9002	8892	9002	7785
30°	8459	8589	8459	7415
35°	7530	8208	7530	7008
40°	6264	7758	6264	6700
45°	5586	7232	5586	6348
50°	5921	6604	5921	5993
55°	5556	5928	5556	5788
60°	5705	5036	5705	5302
65°	5147	4162	5147	4653
70°	3539	3316	3539	3899
75°	3069	2452	3069	2935
80°	2424	1620	2424	1765
85°	1317	858	1317	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8578 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.4
10°-20°	269.9	4.0
20°-30°	417.1	6.2
30°-40°	498.0	7.4
40°-50°	500.9	7.4
50°-60°	435.9	6.5
60°-70°	309.0	4.6
70°-80°	163.5	2.4
80°-90°	43.1	0.6
90°-100°	300.9	4.5
100°-110°	791.1	11.7
110°-120°	820.2	12.2
120°-130°	657.9	9.8
130°-140°	516.2	7.7
140°-150°	396.2	5.9
150°-160°	285.4	4.2
160°-170°	174.6	2.6
170°-180°	59.0	0.9
0°-30°	782.0	11.6
0°-40°	1280.0	19.0
0°-60°	2216.8	32.9
0°-90°	2732.3	40.6
90°-120°	1912.2	28.4
90°-150°	3482.6	51.7
90°-180°	4002.0	59.4
0°-180°	6733.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1053	1053	1053	1053	1053	
5°	1058	1091	1058	858	1058	100
15°	1010	1081	1010	902	1010	284
25°	890	1008	890	883	890	408
35°	676	900	676	768	676	418
45°	436	741	436	650	436	350
55°	356	547	356	534	356	327
65°	247	330	247	369	247	236
75°	94	156	94	187	94	98
85°	16	40	16	34	16	22
90°	4	16	4	16	4	4
95°	40	182	40	182	40	44
105°	142	1239	142	1239	142	151
115°	253	1595	253	1595	253	250
125°	352	1270	352	1270	352	313
135°	420	986	420	986	420	325
145°	487	800	487	800	487	305
155°	550	688	550	688	550	253
165°	594	641	594	641	594	168
175°	617	621	617	621	617	59
180°	617	617	617	617	617	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1061.8	1061.8	1067.9	1069.9	1069.9	1066.9	1063.9	1066.9	1075.9	1078.9	1077.9
5°	1057.9	1065.9	1076.9	1078.9	1080.9	1079.9	1077.9	1079.9	1089.8	1091.8	1092.8
7.5°	1049.9	1064.9	1078.9	1081.9	1084.8	1081.9	1080.9	1082.9	1092.8	1094.8	1094.8
10°	1039.9	1060.8	1076.9	1078.9	1081.9	1078.9	1078.9	1082.9	1092.8	1094.8	1095.8
12.5°	1026.0	1054.9	1069.9	1071.9	1075.9	1074.9	1073.9	1077.9	1087.8	1089.8	1089.8
15°	1010.0	1043.9	1057.9	1059.8	1066.9	1064.9	1064.9	1068.9	1079.9	1082.9	1081.9
17.5°	988.1	1030.0	1045.9	1048.9	1053.9	1052.9	1053.9	1057.9	1067.9	1069.9	1070.9
20°	963.2	1011.0	1030.0	1033.0	1037.9	1037.9	1037.9	1042.9	1052.9	1056.9	1056.9
22.5°	929.4	991.1	1011.0	1013.0	1019.0	1019.0	1021.0	1028.0	1036.9	1037.9	1037.9
25°	889.5	969.2	986.1	992.1	998.1	1001.1	1004.1	1008.1	1011.0	1010.0	1011.0
27.5°	847.7	941.3	963.2	967.2	975.2	978.2	982.2	983.2	984.1	987.1	985.1
30°	800.9	902.5	935.3	939.3	952.3	954.3	950.3	952.3	957.3	959.2	961.2
32.5°	748.1	844.7	906.5	915.4	927.4	921.4	920.4	923.4	931.4	931.4	933.4
35°	676.4	799.9	879.6	887.5	896.5	889.5	893.5	894.5	899.5	902.5	901.5
37.5°	597.7	761.0	851.7	857.7	864.6	855.7	861.6	864.6	868.6	866.6	866.6
40°	528.0	700.3	818.8	822.8	828.8	821.8	827.8	829.8	831.8	829.8	828.8
42.5°	476.2	633.6	784.0	788.9	784.9	789.9	791.9	795.9	792.9	788.9	788.9
45°	436.3	615.6	746.1	752.1	746.1	754.1	757.1	757.1	748.1	746.1	745.1
47.5°	423.4	579.8	708.3	708.3	705.3	715.2	720.2	713.2	704.3	701.3	701.3
50°	422.4	539.9	656.5	652.5	666.4	678.4	673.4	666.4	659.5	648.5	648.5
52.5°	383.6	491.1	589.7	604.7	626.6	633.6	625.6	618.6	606.7	601.7	597.7
55°	355.7	440.3	529.0	558.9	581.8	590.7	575.8	568.8	550.9	547.9	545.9
57.5°	349.6	366.6	473.2	511.0	538.9	537.9	529.0	516.0	501.1	498.1	497.1
60°	320.7	264.9	413.4	458.3	487.1	484.2	476.2	464.2	450.3	448.3	446.3
62.5°	290.8	192.2	345.6	396.5	437.3	436.3	429.4	411.4	401.5	396.5	392.5
65°	247.0	161.4	246.0	329.7	388.5	390.5	375.6	362.6	351.6	345.6	344.6
67.5°	188.2	131.5	166.3	274.9	341.6	339.6	320.7	314.7	300.8	297.8	291.8
70°	139.4	87.6	115.5	223.1	295.8	290.8	275.9	268.9	256.0	249.0	245.0
72.5°	115.5	70.7	84.7	173.3	249.0	243.0	230.1	222.1	211.2	205.2	201.2
75°	93.6	74.7	64.7	128.5	202.2	198.2	186.3	178.3	169.3	161.4	162.3
77.5°	68.7	69.7	51.8	94.6	160.4	154.4	147.4	137.4	133.5	125.5	125.5
80°	51.8	54.8	38.8	64.7	115.5	115.5	109.6	102.6	95.6	91.6	91.6
82.5°	34.9	34.9	28.9	40.8	78.7	75.7	71.7	69.7	65.7	63.7	63.7
85°	15.9	19.9	17.9	24.9	42.8	44.8	44.8	42.8	41.8	39.8	40.8
87.5°	5.0	9.0	11.0	13.9	21.9	22.9	23.9	23.9	23.9	24.9	24.9
90°	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0	15.7	15.7
92.5°	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6	78.7	75.6
95°	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9	267.2	257.8
97.5°	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7	616.8	598.8
100°	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3	866.2	844.7
102.5°	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8	1079.2	1060.7
105°	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7	1327.8	1317.9
107.5°	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3	1457.0	1459.4
110°	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6	1490.1	1500.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9	1469.0	1484.8
115°	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1	1397.4	1419.3
117.5°	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7	1298.4	1322.7
120°	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1	1231.7	1255.4
122.5°	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4	1164.9	1188.2
125°	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2	1076.7	1098.2
127.5°	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1	1005.9	1024.0
130°	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2	961.1	977.9
132.5°	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7	923.0	938.0
135°	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1	869.1	882.1
137.5°	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4	829.4	839.9
140°	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1	797.5	807.4
142.5°	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2	775.1	783.7
145°	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5	741.5	748.0
147.5°	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8	713.4	718.8
150°	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9	697.2	701.5
152.5°	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4	684.4	687.6
155°	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2	669.0	671.2
157.5°	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3	655.8	657.3
160°	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9	649.2	650.1
162.5°	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8	642.9	643.7
165°	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5	633.5	634.4
167.5°	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0	629.3	629.7
170°	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0	629.3	629.3
172.5°	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8	626.0	625.7
175°	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8	621.4	621.4
177.5°	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5	620.6	620.2
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1079.9	1076.9	1079.9	1077.9	1078.9	1075.9	1066.9	1063.9	1066.9	1069.9	1069.9
5°	1092.8	1090.8	1092.8	1092.8	1091.8	1089.8	1079.9	1077.9	1079.9	1080.9	1078.9
7.5°	1096.8	1093.8	1096.8	1094.8	1094.8	1092.8	1082.9	1080.9	1081.9	1084.8	1081.9
10°	1096.8	1093.8	1096.8	1095.8	1094.8	1092.8	1082.9	1078.9	1078.9	1081.9	1078.9
12.5°	1091.8	1089.8	1091.8	1089.8	1089.8	1087.8	1077.9	1073.9	1074.9	1075.9	1071.9
15°	1083.8	1080.9	1083.8	1081.9	1082.9	1079.9	1068.9	1064.9	1064.9	1066.9	1059.8
17.5°	1071.9	1067.9	1071.9	1070.9	1069.9	1067.9	1057.9	1053.9	1052.9	1053.9	1048.9
20°	1057.9	1054.9	1057.9	1056.9	1056.9	1052.9	1042.9	1037.9	1037.9	1037.9	1033.0
22.5°	1035.9	1033.0	1035.9	1037.9	1037.9	1036.9	1028.0	1021.0	1019.0	1019.0	1013.0
25°	1011.0	1008.1	1011.0	1011.0	1010.0	1011.0	1008.1	1004.1	1001.1	998.1	992.1
27.5°	987.1	985.1	987.1	985.1	987.1	984.1	983.2	982.2	978.2	975.2	967.2
30°	963.2	961.2	963.2	961.2	959.2	957.3	952.3	950.3	954.3	952.3	939.3
32.5°	933.4	931.4	933.4	933.4	931.4	931.4	923.4	920.4	921.4	927.4	915.4
35°	902.5	899.5	902.5	901.5	902.5	899.5	894.5	893.5	889.5	896.5	887.5
37.5°	866.6	863.6	866.6	866.6	866.6	868.6	864.6	861.6	855.7	864.6	857.7
40°	829.8	825.8	829.8	828.8	829.8	831.8	829.8	827.8	821.8	828.8	822.8
42.5°	787.9	786.9	787.9	788.9	788.9	792.9	795.9	791.9	789.9	784.9	788.9
45°	743.1	741.1	743.1	745.1	746.1	748.1	757.1	757.1	754.1	746.1	752.1
47.5°	695.3	690.3	695.3	701.3	701.3	704.3	713.2	720.2	715.2	705.3	708.3
50°	644.5	645.5	644.5	648.5	648.5	659.5	666.4	673.4	678.4	666.4	652.5
52.5°	594.7	593.7	594.7	597.7	601.7	606.7	618.6	625.6	633.6	626.6	604.7
55°	544.9	546.9	544.9	545.9	547.9	550.9	568.8	575.8	590.7	581.8	558.9
57.5°	495.1	492.1	495.1	497.1	498.1	501.1	516.0	529.0	537.9	538.9	511.0
60°	437.3	433.4	437.3	446.3	448.3	450.3	464.2	476.2	484.2	487.1	458.3
62.5°	386.5	379.6	386.5	392.5	396.5	401.5	411.4	429.4	436.3	437.3	396.5
65°	332.7	329.7	332.7	344.6	345.6	351.6	362.6	375.6	390.5	388.5	329.7
67.5°	283.9	283.9	283.9	291.8	297.8	300.8	314.7	320.7	339.6	341.6	274.9
70°	239.0	238.0	239.0	245.0	249.0	256.0	268.9	275.9	290.8	295.8	223.1
72.5°	196.2	195.2	196.2	201.2	205.2	211.2	222.1	230.1	243.0	249.0	173.3
75°	158.4	156.4	158.4	162.3	161.4	169.3	178.3	186.3	198.2	202.2	128.5
77.5°	121.5	121.5	121.5	125.5	125.5	133.5	137.4	147.4	154.4	160.4	94.6
80°	90.6	89.6	90.6	91.6	91.6	95.6	102.6	109.6	115.5	115.5	64.7
82.5°	63.7	61.8	63.7	63.7	63.7	65.7	69.7	71.7	75.7	78.7	40.8
85°	39.8	39.8	39.8	40.8	39.8	41.8	42.8	44.8	44.8	42.8	24.9
87.5°	25.9	24.9	25.9	24.9	24.9	23.9	23.9	23.9	22.9	21.9	13.9
90°	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1	18.2	11.6
92.5°	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7	112.4	80.0
95°	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6	276.6	155.8
97.5°	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2	372.6	171.1
100°	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7	407.6	184.0
102.5°	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9	423.6	196.8
105°	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2	435.5	215.8
107.5°	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7	437.6	244.0
110°	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0	434.3	259.8



TEST NUMBER: P935182

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9	434.5	278.8
115°	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2	438.4	307.4
117.5°	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2	446.6	335.2
120°	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1	453.2	351.3
122.5°	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9	462.7	370.4
125°	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3	475.6	394.8
127.5°	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8	488.4	418.4
130°	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8	497.8	434.2
132.5°	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3	505.4	447.0
135°	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8	513.7	461.9
137.5°	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3	526.1	481.0
140°	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9	533.8	493.8
142.5°	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0	540.1	503.4
145°	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1	548.4	517.8
147.5°	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1	560.5	536.0
150°	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3	566.9	545.6
152.5°	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6	571.0	551.8
155°	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7	580.2	565.5
157.5°	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7	589.2	579.2
160°	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1	593.4	585.3
162.5°	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6	597.8	592.0
165°	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7	604.2	601.5
167.5°	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0	609.2	607.0
170°	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4	613.2	613.1
172.5°	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3	616.0	617.3
177.5°	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0	616.3	617.3
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935182

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1067.9	1061.8	1061.8	1051.9	1047.9	1044.9	1039.9	1025.0	1021.0	1017.0	1023.0
5°	1076.9	1065.9	1057.9	1039.9	1025.0	1019.0	1000.1	964.2	940.3	922.4	912.4
7.5°	1078.9	1064.9	1049.9	1022.0	986.1	970.2	912.4	846.7	828.8	812.8	802.9
10°	1076.9	1060.8	1039.9	998.1	913.4	885.5	827.8	784.9	774.0	771.0	774.0
12.5°	1069.9	1054.9	1026.0	956.3	837.7	818.8	784.9	760.0	758.1	763.0	789.9
15°	1057.9	1043.9	1010.0	900.5	795.9	782.0	758.1	749.1	760.0	794.9	875.6
17.5°	1045.9	1030.0	988.1	845.7	764.0	754.1	737.1	755.1	816.8	863.6	890.5
20°	1030.0	1011.0	963.2	805.9	741.1	732.2	724.2	804.9	851.7	868.6	883.6
22.5°	1011.0	991.1	929.4	778.0	717.2	710.2	715.2	832.8	851.7	863.6	876.6
25°	986.1	969.2	889.5	756.1	698.3	690.3	709.3	829.8	840.7	843.7	869.6
27.5°	963.2	941.3	847.7	736.1	675.4	672.4	714.2	816.8	824.8	827.8	855.7
30°	935.3	902.5	800.9	715.2	651.5	650.5	715.2	800.9	798.9	806.9	834.7
32.5°	906.5	844.7	748.1	689.3	628.6	627.6	708.3	777.0	775.0	785.9	806.9
35°	879.6	799.9	676.4	659.5	599.7	600.7	691.3	749.1	750.1	760.0	773.0
37.5°	851.7	761.0	597.7	626.6	571.8	571.8	668.4	723.2	721.2	724.2	742.1
40°	818.8	700.3	528.0	583.8	545.9	542.9	640.5	695.3	688.3	687.3	712.2
42.5°	784.0	633.6	476.2	527.0	516.0	512.0	606.7	661.4	648.5	651.5	683.4
45°	746.1	615.6	436.3	445.3	485.2	482.2	569.8	622.6	613.6	621.6	654.5
47.5°	708.3	579.8	423.4	369.6	452.3	451.3	529.0	584.8	579.8	587.7	622.6
50°	656.5	539.9	422.4	316.7	415.4	419.4	480.2	547.9	547.9	554.9	591.7
52.5°	589.7	491.1	383.6	286.8	372.6	384.6	437.3	516.0	518.0	525.0	557.9
55°	529.0	440.3	355.7	263.9	321.7	347.6	395.5	483.2	487.1	494.1	524.0
57.5°	473.2	366.6	349.6	237.0	274.9	299.8	358.7	451.3	453.3	459.3	488.1
60°	413.4	264.9	320.7	208.2	234.1	253.0	324.7	413.4	420.4	424.4	449.3
62.5°	345.6	192.2	290.8	188.2	214.1	218.1	296.8	377.6	386.5	389.5	404.5
65°	246.0	161.4	247.0	171.3	193.2	194.2	266.9	340.6	348.6	353.6	364.6
67.5°	166.3	131.5	188.2	155.4	177.3	178.3	238.0	297.8	308.8	312.7	319.7
70°	115.5	87.6	139.4	138.4	159.4	161.4	207.2	259.0	268.9	271.9	275.9
72.5°	84.7	70.7	115.5	124.5	140.4	142.4	175.3	215.1	225.1	228.1	230.1
75°	64.7	74.7	93.6	108.6	119.5	120.5	143.4	175.3	182.3	184.3	185.3
77.5°	51.8	69.7	68.7	87.6	97.6	95.6	112.5	135.5	141.4	141.4	141.4
80°	38.8	54.8	51.8	62.7	71.7	69.7	80.7	96.6	98.6	100.6	99.6
82.5°	28.9	34.9	34.9	39.8	47.8	45.8	53.8	62.7	62.7	62.7	64.7
85°	17.9	19.9	15.9	20.9	26.9	25.9	29.9	33.9	34.9	34.9	32.9
87.5°	11.0	9.0	5.0	8.0	12.0	12.0	13.9	14.9	13.9	13.9	13.9
90°	10.8	7.5	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0
92.5°	72.9	44.7	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6
95°	142.9	91.3	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9
97.5°	159.8	114.2	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7
100°	173.6	132.4	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3
102.5°	187.1	148.7	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8
105°	207.7	175.1	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7
107.5°	236.5	206.1	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3
110°	252.9	225.5	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6



TEST NUMBER: P935182

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	272.2	246.1	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9
115°	301.3	277.2	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1
117.5°	329.7	307.8	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7
120°	346.1	325.5	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1
122.5°	365.2	344.4	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4
125°	390.0	371.1	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2
127.5°	413.6	394.4	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1
130°	429.0	408.4	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2
132.5°	441.8	421.2	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7
135°	457.3	438.4	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1
137.5°	476.3	457.8	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4
140°	489.5	472.4	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1
142.5°	499.4	483.6	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2
145°	514.3	500.6	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5
147.5°	532.7	519.3	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8
150°	542.5	530.4	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9
152.5°	549.5	540.2	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4
155°	563.8	557.0	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2
157.5°	577.5	570.9	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3
160°	584.1	579.0	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9
162.5°	591.0	587.1	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8
165°	600.6	597.1	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5
167.5°	606.6	604.9	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0
170°	612.7	611.0	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0
172.5°	613.4	613.1	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8
175°	617.3	617.3	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8
177.5°	617.3	617.3	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935182

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1016.0	1013.0	1017.0	1006.1	1017.0	1013.0	1016.0	1023.0	1017.0	1021.0	1025.0
5°	891.5	886.5	870.6	857.7	870.6	886.5	891.5	912.4	922.4	940.3	964.2
7.5°	796.9	792.9	788.9	781.0	788.9	792.9	796.9	802.9	812.8	828.8	846.7
10°	776.0	777.0	783.0	782.0	783.0	777.0	776.0	774.0	771.0	774.0	784.9
12.5°	829.8	838.7	871.6	869.6	871.6	838.7	829.8	789.9	763.0	758.1	760.0
15°	891.5	894.5	901.5	902.5	901.5	894.5	891.5	875.6	794.9	760.0	749.1
17.5°	897.5	898.5	903.5	903.5	903.5	898.5	897.5	890.5	863.6	816.8	755.1
20°	892.5	894.5	904.5	906.5	904.5	894.5	892.5	883.6	868.6	851.7	804.9
22.5°	890.5	894.5	902.5	901.5	902.5	894.5	890.5	876.6	863.6	851.7	832.8
25°	880.6	880.6	881.6	882.6	881.6	880.6	880.6	869.6	843.7	840.7	829.8
27.5°	859.6	861.6	867.6	866.6	867.6	861.6	859.6	855.7	827.8	824.8	816.8
30°	840.7	838.7	833.8	829.8	833.8	838.7	840.7	834.7	806.9	798.9	800.9
32.5°	808.9	803.9	798.9	795.9	798.9	803.9	808.9	806.9	785.9	775.0	777.0
35°	771.0	772.0	771.0	768.0	771.0	772.0	771.0	773.0	760.0	750.1	749.1
37.5°	744.1	746.1	745.1	741.1	745.1	746.1	744.1	742.1	724.2	721.2	723.2
40°	716.2	717.2	716.2	713.2	716.2	717.2	716.2	712.2	687.3	688.3	695.3
42.5°	689.3	688.3	685.3	683.4	685.3	688.3	689.3	683.4	651.5	648.5	661.4
45°	658.5	659.5	653.5	650.5	653.5	659.5	658.5	654.5	621.6	613.6	622.6
47.5°	627.6	627.6	622.6	619.6	622.6	627.6	627.6	622.6	587.7	579.8	584.8
50°	594.7	593.7	586.7	585.7	586.7	593.7	594.7	591.7	554.9	547.9	547.9
52.5°	556.9	556.9	557.9	559.9	557.9	556.9	556.9	557.9	525.0	518.0	516.0
55°	524.0	525.0	532.0	534.0	532.0	525.0	524.0	524.0	494.1	487.1	483.2
57.5°	490.1	490.1	495.1	495.1	495.1	490.1	490.1	488.1	459.3	453.3	451.3
60°	451.3	453.3	457.3	456.3	457.3	453.3	451.3	449.3	424.4	420.4	413.4
62.5°	410.5	412.4	413.4	411.4	413.4	412.4	410.5	404.5	389.5	386.5	377.6
65°	367.6	369.6	370.6	368.6	370.6	369.6	367.6	364.6	353.6	348.6	340.6
67.5°	323.7	322.7	321.7	325.7	321.7	322.7	323.7	319.7	312.7	308.8	297.8
70°	278.9	278.9	277.9	279.9	277.9	278.9	278.9	275.9	271.9	268.9	259.0
72.5°	231.1	230.1	234.1	231.1	234.1	230.1	231.1	230.1	228.1	225.1	215.1
75°	184.3	186.3	184.3	187.2	184.3	186.3	184.3	185.3	184.3	182.3	175.3
77.5°	140.4	142.4	140.4	140.4	140.4	142.4	140.4	141.4	141.4	141.4	135.5
80°	99.6	98.6	98.6	97.6	98.6	98.6	99.6	99.6	100.6	98.6	96.6
82.5°	63.7	62.7	62.7	64.7	62.7	62.7	63.7	64.7	62.7	62.7	62.7
85°	34.9	35.9	33.9	33.9	33.9	35.9	34.9	32.9	34.9	34.9	33.9
87.5°	12.9	12.0	12.0	12.0	12.0	12.0	12.9	13.9	13.9	13.9	14.9
90°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1
92.5°	78.7	75.6	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7
95°	267.2	257.8	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6
97.5°	616.8	598.8	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2
100°	866.2	844.7	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7
102.5°	1079.2	1060.7	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9
105°	1327.8	1317.9	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2
107.5°	1457.0	1459.4	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7
110°	1490.1	1500.5	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0



TEST NUMBER: P935182

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1469.0	1484.8	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9
115°	1397.4	1419.3	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2
117.5°	1298.4	1322.7	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2
120°	1231.7	1255.4	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1
122.5°	1164.9	1188.2	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9
125°	1076.7	1098.2	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3
127.5°	1005.9	1024.0	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8
130°	961.1	977.9	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8
132.5°	923.0	938.0	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3
135°	869.1	882.1	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8
137.5°	829.4	839.9	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3
140°	797.5	807.4	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9
142.5°	775.1	783.7	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0
145°	741.5	748.0	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1
147.5°	713.4	718.8	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1
150°	697.2	701.5	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3
152.5°	684.4	687.6	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6
155°	669.0	671.2	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7
157.5°	655.8	657.3	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7
160°	649.2	650.1	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1
162.5°	642.9	643.7	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6
165°	633.5	634.4	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7
167.5°	629.3	629.7	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0
170°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4
172.5°	626.0	625.7	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3
177.5°	620.6	620.2	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1052.9	1052.9	1052.9	1052.9	1052.9
2.5°	1039.9	1044.9	1047.9	1051.9	1061.8
5°	1000.1	1019.0	1025.0	1039.9	1057.9
7.5°	912.4	970.2	986.1	1022.0	1049.9
10°	827.8	885.5	913.4	998.1	1039.9
12.5°	784.9	818.8	837.7	956.3	1026.0
15°	758.1	782.0	795.9	900.5	1010.0
17.5°	737.1	754.1	764.0	845.7	988.1
20°	724.2	732.2	741.1	805.9	963.2
22.5°	715.2	710.2	717.2	778.0	929.4
25°	709.3	690.3	698.3	756.1	889.5
27.5°	714.2	672.4	675.4	736.1	847.7
30°	715.2	650.5	651.5	715.2	800.9
32.5°	708.3	627.6	628.6	689.3	748.1
35°	691.3	600.7	599.7	659.5	676.4
37.5°	668.4	571.8	571.8	626.6	597.7
40°	640.5	542.9	545.9	583.8	528.0
42.5°	606.7	512.0	516.0	527.0	476.2
45°	569.8	482.2	485.2	445.3	436.3
47.5°	529.0	451.3	452.3	369.6	423.4
50°	480.2	419.4	415.4	316.7	422.4
52.5°	437.3	384.6	372.6	286.8	383.6
55°	395.5	347.6	321.7	263.9	355.7
57.5°	358.7	299.8	274.9	237.0	349.6
60°	324.7	253.0	234.1	208.2	320.7
62.5°	296.8	218.1	214.1	188.2	290.8
65°	266.9	194.2	193.2	171.3	247.0
67.5°	238.0	178.3	177.3	155.4	188.2
70°	207.2	161.4	159.4	138.4	139.4
72.5°	175.3	142.4	140.4	124.5	115.5
75°	143.4	120.5	119.5	108.6	93.6
77.5°	112.5	95.6	97.6	87.6	68.7
80°	80.7	69.7	71.7	62.7	51.8
82.5°	53.8	45.8	47.8	39.8	34.9
85°	29.9	25.9	26.9	20.9	15.9
87.5°	13.9	12.0	12.0	8.0	5.0
90°	18.2	11.6	10.8	7.5	4.2
92.5°	112.4	80.0	72.9	44.7	16.5
95°	276.6	155.8	142.9	91.3	39.7
97.5°	372.6	171.1	159.8	114.2	68.7
100°	407.6	184.0	173.6	132.4	91.1
102.5°	423.6	196.8	187.1	148.7	110.2
105°	435.5	215.8	207.7	175.1	142.5
107.5°	437.6	244.0	236.5	206.1	175.7
110°	434.3	259.8	252.9	225.5	198.0



TEST NUMBER: P935182

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	434.5	278.8	272.2	246.1	220.0
115°	438.4	307.4	301.3	277.2	253.1
117.5°	446.6	335.2	329.7	307.8	285.9
120°	453.2	351.3	346.1	325.5	304.9
122.5°	462.7	370.4	365.2	344.4	323.6
125°	475.6	394.8	390.0	371.1	352.2
127.5°	488.4	418.4	413.6	394.4	375.3
130°	497.8	434.2	429.0	408.4	387.7
132.5°	505.4	447.0	441.8	421.2	400.6
135°	513.7	461.9	457.3	438.4	419.7
137.5°	526.1	481.0	476.3	457.8	439.1
140°	533.8	493.8	489.5	472.4	455.3
142.5°	540.1	503.4	499.4	483.6	467.7
145°	548.4	517.8	514.3	500.6	486.7
147.5°	560.5	536.0	532.7	519.3	505.9
150°	566.9	545.6	542.5	530.4	518.2
152.5°	571.0	551.8	549.5	540.2	531.1
155°	580.2	565.5	563.8	557.0	550.2
157.5°	589.2	579.2	577.5	570.9	564.2
160°	593.4	585.3	584.1	579.0	573.8
162.5°	597.8	592.0	591.0	587.1	583.3
165°	604.2	601.5	600.6	597.1	593.6
167.5°	609.2	607.0	606.6	604.9	603.2
170°	613.2	613.1	612.7	611.0	609.5
172.5°	613.5	613.5	613.4	613.1	612.7
175°	616.0	617.3	617.3	617.3	617.3
177.5°	616.3	617.3	617.3	617.3	617.3
180°	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935182
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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	11.77	12.56	12.81	13.60	15.00	14.57	15.35	15.61	16.39	17.79
	3H	12.24	12.95	13.29	14.00	15.41	15.90	16.60	16.94	17.65	19.07
	4H	12.43	13.10	13.49	14.15	15.57	16.33	17.00	17.39	18.05	19.48
	6H	12.55	13.16	13.61	14.21	15.65	16.61	17.22	17.67	18.27	19.71
	8H	12.55	13.13	13.62	14.20	15.63	16.68	17.26	17.75	18.33	19.76
	12H	12.51	13.07	13.59	14.13	15.59	16.71	17.26	17.78	18.33	19.78
4H	2H	12.79	13.45	13.85	14.51	15.93	14.97	15.64	16.04	16.69	18.12
	3H	13.81	14.36	14.88	15.44	16.88	16.46	17.01	17.53	18.09	19.53
	4H	14.08	14.59	15.16	15.66	17.12	16.98	17.49	18.06	18.56	20.02
	6H	14.20	14.64	15.29	15.73	17.19	17.33	17.77	18.42	18.86	20.32
	8H	14.21	14.61	15.29	15.70	17.17	17.43	17.84	18.52	18.92	20.39
	12H	14.17	14.54	15.27	15.64	17.11	17.48	17.85	18.58	18.95	20.42
8H	4H	14.52	14.93	15.61	16.02	17.49	17.10	17.50	18.18	18.59	20.06
	6H	14.78	15.12	15.89	16.24	17.71	17.52	17.86	18.63	18.99	20.45
	8H	14.82	15.12	15.94	16.23	17.71	17.67	17.96	18.78	19.07	20.56
	12H	14.80	15.06	15.92	16.17	17.69	17.76	18.02	18.88	19.12	20.65
12H	4H	14.52	14.89	15.63	15.99	17.47	17.06	17.43	18.16	18.53	20.00
	6H	14.84	15.13	15.95	16.24	17.73	17.52	17.81	18.63	18.92	20.41
	8H	14.90	15.16	16.02	16.27	17.79	17.67	17.93	18.79	19.04	20.56