

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: P934382

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934382
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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: -

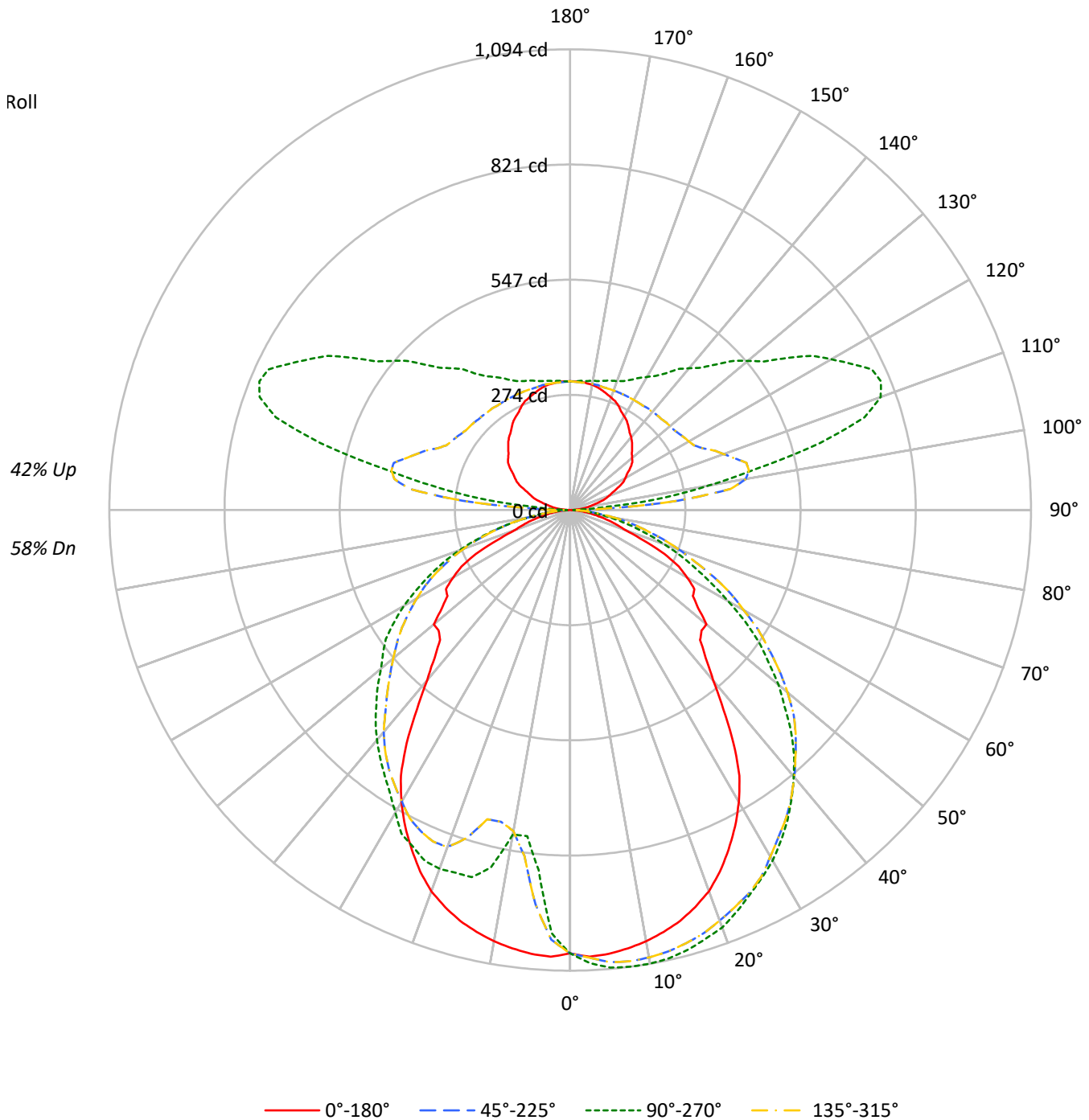
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4714.0 lumens
Efficiency: N/A
Efficacy: 129.5 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): 36.4
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

TEST NUMBER: P934382
CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

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



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	2.0
10°-20°	269.9	5.7
20°-30°	417.1	8.8
30°-40°	498.0	10.6
40°-50°	500.9	10.6
50°-60°	435.9	9.2
60°-70°	309.0	6.6
70°-80°	163.5	3.5
80°-90°	41.9	0.9
90°-100°	149.1	3.2
100°-110°	392.0	8.3
110°-120°	406.4	8.6
120°-130°	326.0	6.9
130°-140°	255.8	5.4
140°-150°	196.3	4.2
150°-160°	141.4	3.0
160°-170°	86.5	1.8
170°-180°	29.2	0.6
0°-30°	782.0	16.6
0°-40°	1280.0	27.2
0°-60°	2216.8	47.0
0°-90°	2731.2	57.9
90°-120°	947.5	20.1
90°-150°	1725.7	36.6
90°-180°	1983.0	42.1
0°-180°	4714.0	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°	2	8	2	8	2	2
95°	20	90	20	90	20	22
105°	71	614	71	614	71	75
115°	125	790	125	790	125	124
125°	174	629	174	629	174	155
135°	208	488	208	488	208	161
145°	241	396	241	396	241	151
155°	273	341	273	341	273	125
165°	294	318	294	318	294	83
175°	306	308	306	308	306	29
180°	306	306	306	306	306	



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

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°	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4	7.8	7.8
92.5°	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3	39.0	37.4
95°	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8	132.4	127.7
97.5°	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9	305.7	296.7
100°	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4	429.3	418.6
102.5°	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4	534.8	525.6
105°	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1	658.0	653.1
107.5°	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6	722.0	723.2
110°	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7	738.4	743.5



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5	728.0	735.8
115°	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3	692.4	703.3
117.5°	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4	643.3	655.4
120°	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4	610.3	622.1
122.5°	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8	577.3	588.8
125°	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9	533.6	544.2
127.5°	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0	498.4	507.4
130°	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8	476.3	484.6
132.5°	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7	457.4	464.8
135°	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0	430.7	437.0
137.5°	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8	410.9	416.2
140°	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8	395.2	400.1
142.5°	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4	384.1	388.2
145°	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6	367.4	370.6
147.5°	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3	353.5	356.2
150°	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0	345.5	347.7
152.5°	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8	339.1	340.7
155°	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7	331.6	332.7
157.5°	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3	325.0	325.8
160°	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1	321.7	322.1
162.5°	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0	318.6	319.0
165°	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9	313.8	314.2
167.5°	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3	311.8	312.0
170°	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3	311.8	311.8
172.5°	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1	310.2	310.0
175°	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7	308.0	308.0
177.5°	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6	307.6	307.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

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°	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4	9.1	5.8
92.5°	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1	55.7	39.6
95°	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8	137.0	77.2
97.5°	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7	184.6	84.8
100°	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6	201.9	91.1
102.5°	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7	209.9	97.5
105°	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9	215.7	107.0
107.5°	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8	216.8	120.9
110°	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6	215.2	128.7



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-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°	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1	215.2	138.1
115°	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8	217.2	152.3
117.5°	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9	221.3	166.0
120°	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9	224.6	174.1
122.5°	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3	229.3	183.6
125°	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0	235.7	195.6
127.5°	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3	242.0	207.4
130°	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7	246.7	215.1
132.5°	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0	250.5	221.5
135°	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7	254.6	228.9
137.5°	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5	260.8	238.3
140°	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8	264.4	244.7
142.5°	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8	267.6	249.4
145°	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9	271.7	256.6
147.5°	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9	277.8	265.6
150°	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9	280.9	270.3
152.5°	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6	283.0	273.4
155°	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1	287.4	280.2
157.5°	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6	291.9	286.9
160°	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3	294.0	290.0
162.5°	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1	296.2	293.3
165°	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1	299.4	298.1
167.5°	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3	301.8	300.7
170°	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0	303.9	303.8
172.5°	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4	305.3	305.9
177.5°	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8	305.4	305.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-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°	5.4	3.7	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4
92.5°	36.2	22.1	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3
95°	70.8	45.2	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8
97.5°	79.1	56.6	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9
100°	86.1	65.5	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4
102.5°	92.7	73.7	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4
105°	102.9	86.8	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1
107.5°	117.1	102.1	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6
110°	125.3	111.7	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-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°	134.9	121.9	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5
115°	149.3	137.3	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3
117.5°	163.3	152.5	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4
120°	171.5	161.4	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4
122.5°	181.0	170.7	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8
125°	193.2	183.9	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9
127.5°	205.0	195.5	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0
130°	212.5	202.4	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8
132.5°	218.9	208.8	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7
135°	226.6	217.2	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0
137.5°	236.1	226.8	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8
140°	242.6	234.1	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8
142.5°	247.4	239.6	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4
145°	254.9	248.0	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6
147.5°	263.9	257.4	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3
150°	268.8	262.7	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0
152.5°	272.3	267.7	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8
155°	279.4	276.0	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7
157.5°	286.2	282.9	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3
160°	289.4	286.8	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1
162.5°	292.8	290.9	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0
165°	297.7	295.9	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9
167.5°	300.5	299.7	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3
170°	303.6	302.8	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3
172.5°	304.0	303.8	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1
175°	305.9	305.9	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7
177.5°	305.9	305.9	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-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°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4
92.5°	39.0	37.4	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1
95°	132.4	127.7	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8
97.5°	305.7	296.7	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7
100°	429.3	418.6	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6
102.5°	534.8	525.6	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7
105°	658.0	653.1	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9
107.5°	722.0	723.2	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8
110°	738.4	743.5	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	728.0	735.8	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1
115°	692.4	703.3	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8
117.5°	643.3	655.4	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9
120°	610.3	622.1	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9
122.5°	577.3	588.8	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3
125°	533.6	544.2	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0
127.5°	498.4	507.4	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3
130°	476.3	484.6	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7
132.5°	457.4	464.8	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0
135°	430.7	437.0	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7
137.5°	410.9	416.2	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5
140°	395.2	400.1	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8
142.5°	384.1	388.2	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8
145°	367.4	370.6	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9
147.5°	353.5	356.2	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9
150°	345.5	347.7	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9
152.5°	339.1	340.7	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6
155°	331.6	332.7	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1
157.5°	325.0	325.8	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6
160°	321.7	322.1	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3
162.5°	318.6	319.0	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1
165°	313.8	314.2	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1
167.5°	311.8	312.0	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3
170°	311.8	311.8	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0
172.5°	310.2	310.0	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4
177.5°	307.6	307.4	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934382

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

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°	9.1	5.8	5.4	3.7	2.1
92.5°	55.7	39.6	36.2	22.1	8.2
95°	137.0	77.2	70.8	45.2	19.7
97.5°	184.6	84.8	79.1	56.6	34.1
100°	201.9	91.1	86.1	65.5	45.1
102.5°	209.9	97.5	92.7	73.7	54.6
105°	215.7	107.0	102.9	86.8	70.6
107.5°	216.8	120.9	117.1	102.1	87.1
110°	215.2	128.7	125.3	111.7	98.1



TEST NUMBER: P934382
 CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	215.2	138.1	134.9	121.9	109.0
115°	217.2	152.3	149.3	137.3	125.4
117.5°	221.3	166.0	163.3	152.5	141.6
120°	224.6	174.1	171.5	161.4	151.1
122.5°	229.3	183.6	181.0	170.7	160.4
125°	235.7	195.6	193.2	183.9	174.5
127.5°	242.0	207.4	205.0	195.5	186.0
130°	246.7	215.1	212.5	202.4	192.1
132.5°	250.5	221.5	218.9	208.8	198.5
135°	254.6	228.9	226.6	217.2	208.0
137.5°	260.8	238.3	236.1	226.8	217.6
140°	264.4	244.7	242.6	234.1	225.6
142.5°	267.6	249.4	247.4	239.6	231.8
145°	271.7	256.6	254.9	248.0	241.2
147.5°	277.8	265.6	263.9	257.4	250.7
150°	280.9	270.3	268.8	262.7	256.8
152.5°	283.0	273.4	272.3	267.7	263.1
155°	287.4	280.2	279.4	276.0	272.6
157.5°	291.9	286.9	286.2	282.9	279.6
160°	294.0	290.0	289.4	286.8	284.4
162.5°	296.2	293.3	292.8	290.9	289.0
165°	299.4	298.1	297.7	295.9	294.2
167.5°	301.8	300.7	300.5	299.7	298.9
170°	303.9	303.8	303.6	302.8	302.0
172.5°	304.0	304.0	304.0	303.8	303.6
175°	305.3	305.9	305.9	305.9	305.9
177.5°	305.4	305.9	305.9	305.9	305.9
180°	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934382
 CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-4-2700K

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	13.41	14.35	14.30	15.26	16.41	16.21	17.15	17.10	18.06	19.21
	3H	13.90	14.74	14.80	15.65	16.83	17.55	18.39	18.45	19.31	20.49
	4H	14.09	14.89	15.01	15.81	17.00	17.99	18.79	18.91	19.71	20.90
	6H	14.22	14.95	15.14	15.88	17.08	18.28	19.01	19.20	19.94	21.14
	8H	14.22	14.92	15.15	15.86	17.06	18.35	19.05	19.28	19.99	21.19
	12H	14.19	14.86	15.13	15.80	17.02	18.39	19.05	19.32	19.99	21.21
4H	2H	14.45	15.24	15.37	16.17	17.35	16.63	17.43	17.55	18.35	19.54
	3H	15.48	16.14	16.41	17.10	18.30	18.14	18.80	19.07	19.75	20.95
	4H	15.76	16.37	16.70	17.31	18.54	18.66	19.26	19.60	20.21	21.44
	6H	15.89	16.41	16.85	17.38	18.61	19.02	19.54	19.98	20.51	21.74
	8H	15.90	16.39	16.86	17.35	18.59	19.13	19.61	20.08	20.58	21.82
	12H	15.87	16.31	16.85	17.29	18.54	19.18	19.62	20.16	20.60	21.85
8H	4H	16.22	16.70	17.17	17.67	18.91	18.79	19.28	19.75	20.24	21.49
	6H	16.48	16.88	17.46	17.89	19.13	19.22	19.63	20.20	20.63	21.87
	8H	16.52	16.88	17.52	17.88	19.13	19.37	19.73	20.36	20.72	21.98
	12H	16.51	16.83	17.51	17.81	19.12	19.47	19.78	20.46	20.77	22.07
12H	4H	16.23	16.66	17.20	17.65	18.89	18.76	19.20	19.74	20.18	21.43
	6H	16.54	16.90	17.53	17.89	19.15	19.22	19.58	20.21	20.57	21.83
	8H	16.61	16.92	17.61	17.91	19.22	19.38	19.69	20.37	20.68	21.99