

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: P935160

Luminaire Tested: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935160
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-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

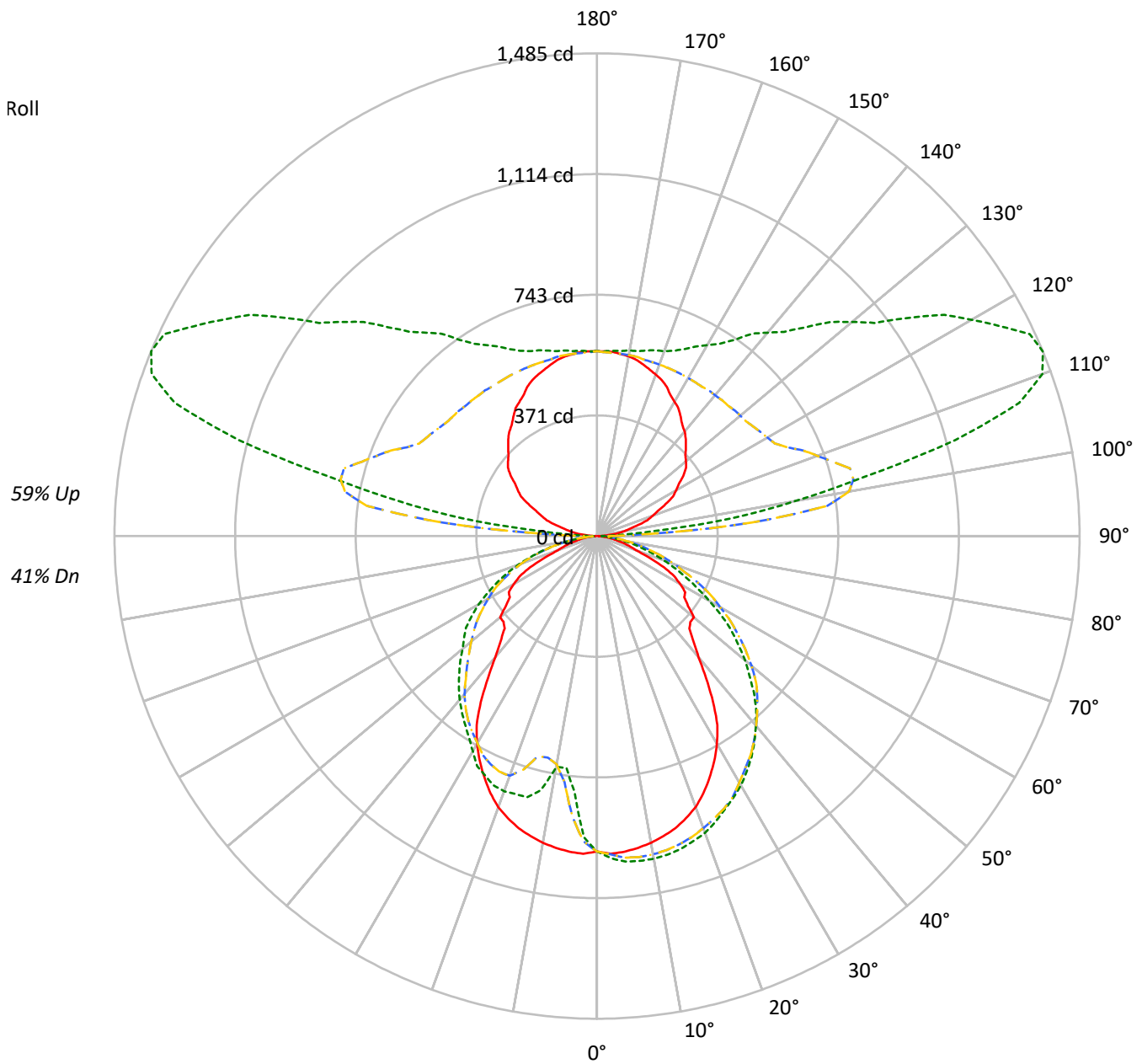
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6204.5 lumens
Efficiency: N/A
Efficacy: 126.1 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: P935160
CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

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	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9002	9002	9002	9002
5°	9059	9088	9059	7145
10°	8989	8952	8989	6400
15°	8880	8758	8880	7312
20°	8685	8527	8685	7328
25°	8295	8192	8295	7173
30°	7794	7914	7794	6831
35°	6938	7563	6938	6457
40°	5772	7149	5772	6174
45°	5147	6664	5147	5848
50°	5456	6086	5456	5522
55°	5119	5462	5119	5333
60°	5256	4639	5256	4885
65°	4743	3835	4743	4287
70°	3262	3055	3262	3593
75°	2830	2259	2830	2704
80°	2232	1493	2232	1625
85°	1217	791	1217	672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	1.4
10°-20°	248.6	4.0
20°-30°	384.3	6.2
30°-40°	458.8	7.4
40°-50°	461.5	7.4
50°-60°	401.6	6.5
60°-70°	284.7	4.6
70°-80°	150.6	2.4
80°-90°	39.7	0.6
90°-100°	277.2	4.5
100°-110°	728.9	11.7
110°-120°	755.8	12.2
120°-130°	606.2	9.8
130°-140°	475.7	7.7
140°-150°	365.1	5.9
150°-160°	262.9	4.2
160°-170°	160.9	2.6
170°-180°	54.4	0.9
0°-30°	720.6	11.6
0°-40°	1179.4	19.0
0°-60°	2042.5	32.9
0°-90°	2517.5	40.6
90°-120°	1761.9	28.4
90°-150°	3208.8	51.7
90°-180°	3687.0	59.4
0°-180°	6204.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	970	970	970	970	970	
5°	975	1005	975	790	975	92
15°	931	996	931	832	931	262
25°	820	929	820	813	820	376
35°	623	829	623	708	623	386
45°	402	683	402	599	402	322
55°	328	504	328	492	328	301
65°	228	304	228	340	228	218
75°	86	144	86	172	86	91
85°	15	37	15	31	15	20
90°	4	14	4	14	4	4
95°	37	168	37	168	37	41
105°	131	1141	131	1141	131	139
115°	233	1470	233	1470	233	230
125°	324	1170	324	1170	324	288
135°	387	908	387	908	387	299
145°	448	737	448	737	448	281
155°	507	634	507	634	507	233
165°	547	591	547	591	547	154
175°	569	572	569	572	569	54
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	978.4	978.4	984.0	985.8	985.8	983.0	980.3	983.0	991.3	994.0	993.1
5°	974.7	982.1	992.2	994.0	995.9	995.0	993.1	995.0	1004.1	1006.0	1006.9
7.5°	967.3	981.2	994.0	996.8	999.6	996.8	995.9	997.7	1006.9	1008.7	1008.7
10°	958.2	977.4	992.2	994.0	996.8	994.0	994.0	997.7	1006.9	1008.7	1009.6
12.5°	945.3	971.9	985.8	987.6	991.3	990.4	989.5	993.1	1002.3	1004.1	1004.1
15°	930.6	961.8	974.7	976.5	983.0	981.2	981.2	984.9	995.0	997.7	996.8
17.5°	910.4	949.0	963.7	966.4	971.0	970.1	971.0	974.7	984.0	985.8	986.7
20°	887.5	931.6	949.0	951.7	956.3	956.3	956.3	960.9	970.1	973.8	973.8
22.5°	856.3	913.2	931.6	933.4	938.9	938.9	940.7	947.2	955.4	956.3	956.3
25°	819.6	893.0	908.6	914.1	919.6	922.4	925.1	928.8	931.6	930.6	931.6
27.5°	781.1	867.3	887.5	891.2	898.5	901.3	904.9	905.9	906.8	909.5	907.7
30°	737.9	831.5	861.8	865.5	877.4	879.2	875.6	877.4	882.0	883.8	885.7
32.5°	689.3	778.3	835.2	843.5	854.5	849.0	848.0	850.8	858.1	858.1	860.0
35°	623.2	737.0	810.4	817.8	826.0	819.6	823.3	824.2	828.8	831.5	830.6
37.5°	550.7	701.2	784.7	790.2	796.7	788.4	793.9	796.7	800.3	798.5	798.5
40°	486.5	645.2	754.4	758.1	763.6	757.2	762.7	764.5	766.4	764.5	763.6
42.5°	438.7	583.7	722.3	726.9	723.2	727.8	729.7	733.3	730.6	726.9	726.9
45°	402.0	567.2	687.4	693.0	687.4	694.8	697.5	697.5	689.3	687.4	686.5
47.5°	390.1	534.2	652.6	652.6	649.8	659.0	663.6	657.2	648.9	646.1	646.1
50°	389.2	497.5	604.9	601.2	614.0	625.0	620.5	614.0	607.6	597.5	597.5
52.5°	353.4	452.5	543.4	557.1	577.3	583.7	576.4	570.0	559.0	554.4	550.7
55°	327.7	405.7	487.4	514.9	536.0	544.3	530.5	524.1	507.6	504.8	503.0
57.5°	322.1	337.8	436.0	470.9	496.6	495.6	487.4	475.5	461.7	458.9	458.0
60°	295.5	244.1	380.9	422.2	448.8	446.1	438.7	427.7	414.9	413.1	411.2
62.5°	268.0	177.1	318.4	365.3	403.0	402.0	395.6	379.1	369.9	365.3	361.7
65°	227.6	148.7	226.7	303.8	358.0	359.8	346.1	334.1	323.9	318.4	317.5
67.5°	173.4	121.1	153.3	253.3	314.8	312.9	295.5	290.0	277.1	274.4	268.9
70°	128.5	80.8	106.5	205.6	272.6	268.0	254.2	247.8	235.8	229.4	225.8
72.5°	106.5	65.2	78.0	159.7	229.4	223.9	212.0	204.6	194.6	189.0	185.4
75°	86.3	68.8	59.7	118.4	186.3	182.6	171.6	164.3	156.0	148.7	149.6
77.5°	63.3	64.2	47.7	87.2	147.7	142.2	135.8	126.6	123.0	115.6	115.6
80°	47.7	50.5	35.8	59.7	106.5	106.5	100.9	94.5	88.1	84.4	84.4
82.5°	32.1	32.1	26.6	37.6	72.5	69.7	66.1	64.2	60.6	58.7	58.7
85°	14.7	18.4	16.5	22.9	39.5	41.3	41.3	39.5	38.5	36.7	37.6
87.5°	4.6	8.3	10.1	12.8	20.2	21.1	22.0	22.0	22.0	22.9	22.9
90°	3.9	6.9	9.9	10.6	16.8	25.0	29.0	25.8	19.4	14.5	14.5
92.5°	15.2	41.2	67.2	73.7	103.6	143.4	163.3	143.2	102.8	72.5	69.7
95°	36.6	84.2	131.7	143.5	254.8	403.2	477.5	426.1	323.3	246.2	237.5
97.5°	63.3	105.3	147.2	157.7	343.3	590.8	714.5	682.0	617.1	568.3	551.7
100°	84.0	122.0	160.0	169.5	375.5	650.2	787.5	789.9	794.5	798.1	778.3
102.5°	101.5	137.0	172.4	181.3	390.3	668.8	808.1	849.5	932.3	994.3	977.3
105°	131.3	161.3	191.3	198.9	401.2	670.9	805.8	898.6	1084.2	1223.4	1214.3
107.5°	161.9	189.9	217.9	224.8	403.2	641.0	759.9	889.4	1148.3	1342.5	1344.7
110°	182.4	207.8	233.0	239.3	400.1	614.6	721.8	866.5	1155.9	1373.0	1382.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	202.7	226.8	250.8	256.9	400.3	591.5	687.1	835.2	1131.3	1353.5	1368.1
115°	233.2	255.4	277.6	283.2	404.0	565.0	645.5	788.2	1073.5	1287.5	1307.7
117.5°	263.4	283.6	303.8	308.8	411.5	548.4	616.9	745.6	1003.1	1196.3	1218.7
120°	280.9	299.9	318.9	323.7	417.6	542.8	605.4	723.1	958.3	1134.8	1156.7
122.5°	298.2	317.3	336.5	341.3	426.4	539.9	596.6	702.5	914.4	1073.3	1094.8
125°	324.5	341.9	359.4	363.8	438.2	537.4	587.0	677.1	857.0	992.0	1011.9
127.5°	345.8	363.4	381.1	385.5	450.0	536.0	579.1	656.3	810.9	926.8	943.5
130°	357.3	376.3	395.3	400.0	458.7	536.9	576.0	644.9	782.4	885.6	901.0
132.5°	369.1	388.1	407.1	411.9	465.6	537.4	573.3	634.9	758.0	850.4	864.3
135°	386.7	404.0	421.3	425.6	473.3	536.9	568.8	620.4	723.4	800.8	812.7
137.5°	404.6	421.8	438.8	443.2	484.7	540.2	568.0	611.6	698.7	764.2	773.9
140°	419.5	435.3	451.0	455.0	491.8	540.8	565.3	602.9	678.3	734.8	743.9
142.5°	430.9	445.5	460.1	463.8	497.7	542.7	565.3	598.3	664.5	714.2	722.0
145°	448.5	461.2	473.9	477.1	505.3	542.8	561.5	588.6	642.7	683.2	689.2
147.5°	466.1	478.5	490.8	493.9	516.5	546.5	561.5	582.8	625.4	657.3	662.3
150°	477.5	488.7	499.9	502.7	522.4	548.5	561.5	579.5	615.4	642.4	646.3
152.5°	489.3	497.8	506.3	508.4	526.1	549.7	561.5	576.9	607.5	630.5	633.6
155°	506.9	513.2	519.5	521.1	534.6	552.5	561.5	573.7	598.2	616.4	618.4
157.5°	519.9	526.0	532.1	533.6	542.9	555.3	561.5	571.0	590.0	604.2	605.6
160°	528.7	533.5	538.1	539.3	546.8	556.6	561.5	569.7	585.9	598.2	599.0
162.5°	537.4	541.0	544.6	545.5	550.8	558.0	561.5	568.4	582.1	592.4	593.1
165°	546.9	550.2	553.4	554.2	556.7	559.9	561.5	566.5	576.3	583.7	584.5
167.5°	555.8	557.3	558.9	559.2	561.3	563.9	565.3	568.5	574.9	579.8	580.2
170°	561.5	563.0	564.6	564.9	565.0	565.2	565.3	568.5	574.9	579.8	579.8
172.5°	564.6	564.9	565.2	565.3	565.3	565.3	565.3	567.9	572.9	576.8	576.5
175°	568.8	568.8	568.8	568.8	567.6	566.0	565.3	567.0	570.2	572.5	572.5
177.5°	568.8	568.8	568.8	568.8	567.9	566.7	566.0	567.3	569.9	571.8	571.4
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	995.0	992.2	995.0	993.1	994.0	991.3	983.0	980.3	983.0	985.8	985.8
5°	1006.9	1005.1	1006.9	1006.9	1006.0	1004.1	995.0	993.1	995.0	995.9	994.0
7.5°	1010.6	1007.8	1010.6	1008.7	1008.7	1006.9	997.7	995.9	996.8	999.6	996.8
10°	1010.6	1007.8	1010.6	1009.6	1008.7	1006.9	997.7	994.0	994.0	996.8	994.0
12.5°	1006.0	1004.1	1006.0	1004.1	1004.1	1002.3	993.1	989.5	990.4	991.3	987.6
15°	998.6	995.9	998.6	996.8	997.7	995.0	984.9	981.2	981.2	983.0	976.5
17.5°	987.6	984.0	987.6	986.7	985.8	984.0	974.7	971.0	970.1	971.0	966.4
20°	974.7	971.9	974.7	973.8	973.8	970.1	960.9	956.3	956.3	956.3	951.7
22.5°	954.5	951.7	954.5	956.3	956.3	955.4	947.2	940.7	938.9	938.9	933.4
25°	931.6	928.8	931.6	931.6	930.6	931.6	928.8	925.1	922.4	919.6	914.1
27.5°	909.5	907.7	909.5	907.7	909.5	906.8	905.9	904.9	901.3	898.5	891.2
30°	887.5	885.7	887.5	885.7	883.8	882.0	877.4	875.6	879.2	877.4	865.5
32.5°	860.0	858.1	860.0	860.0	858.1	858.1	850.8	848.0	849.0	854.5	843.5
35°	831.5	828.8	831.5	830.6	831.5	828.8	824.2	823.3	819.6	826.0	817.8
37.5°	798.5	795.7	798.5	798.5	798.5	800.3	796.7	793.9	788.4	796.7	790.2
40°	764.5	760.9	764.5	763.6	764.5	766.4	764.5	762.7	757.2	763.6	758.1
42.5°	726.0	725.1	726.0	726.9	726.9	730.6	733.3	729.7	727.8	723.2	726.9
45°	684.7	682.9	684.7	686.5	687.4	689.3	697.5	697.5	694.8	687.4	693.0
47.5°	640.6	636.1	640.6	646.1	646.1	648.9	657.2	663.6	659.0	649.8	652.6
50°	593.8	594.8	593.8	597.5	597.5	607.6	614.0	620.5	625.0	614.0	601.2
52.5°	548.0	547.0	548.0	550.7	554.4	559.0	570.0	576.4	583.7	577.3	557.1
55°	502.1	503.9	502.1	503.0	504.8	507.6	524.1	530.5	544.3	536.0	514.9
57.5°	456.2	453.4	456.2	458.0	458.9	461.7	475.5	487.4	495.6	496.6	470.9
60°	403.0	399.3	403.0	411.2	413.1	414.9	427.7	438.7	446.1	448.8	422.2
62.5°	356.2	349.7	356.2	361.7	365.3	369.9	379.1	395.6	402.0	403.0	365.3
65°	306.5	303.8	306.5	317.5	318.4	323.9	334.1	346.1	359.8	358.0	303.8
67.5°	261.5	261.5	261.5	268.9	274.4	277.1	290.0	295.5	312.9	314.8	253.3
70°	220.2	219.3	220.2	225.8	229.4	235.8	247.8	254.2	268.0	272.6	205.6
72.5°	180.8	179.9	180.8	185.4	189.0	194.6	204.6	212.0	223.9	229.4	159.7
75°	145.9	144.1	145.9	149.6	148.7	156.0	164.3	171.6	182.6	186.3	118.4
77.5°	112.0	112.0	112.0	115.6	115.6	123.0	126.6	135.8	142.2	147.7	87.2
80°	83.5	82.6	83.5	84.4	84.4	88.1	94.5	100.9	106.5	106.5	59.7
82.5°	58.7	56.9	58.7	58.7	58.7	60.6	64.2	66.1	69.7	72.5	37.6
85°	36.7	36.7	36.7	37.6	36.7	38.5	39.5	41.3	41.3	39.5	22.9
87.5°	23.9	22.9	23.9	22.9	22.9	22.0	22.0	22.0	21.1	20.2	12.8
90°	14.5	14.5	14.5	14.5	14.5	19.4	25.8	29.0	25.0	16.8	10.6
92.5°	58.1	46.5	58.1	69.7	72.5	102.8	143.2	163.3	143.4	103.6	73.7
95°	202.5	167.6	202.5	237.5	246.2	323.3	426.1	477.5	403.2	254.8	143.5
97.5°	485.2	418.7	485.2	551.7	568.3	617.1	682.0	714.5	590.8	343.3	157.7
100°	699.1	619.9	699.1	778.3	798.1	794.5	789.9	787.5	650.2	375.5	169.5
102.5°	909.5	841.7	909.5	977.3	994.3	932.3	849.5	808.1	668.8	390.3	181.3
105°	1177.8	1141.3	1177.8	1214.3	1223.4	1084.2	898.6	805.8	670.9	401.2	198.9
107.5°	1353.5	1362.3	1353.5	1344.7	1342.5	1148.3	889.4	759.9	641.0	403.2	224.8
110°	1420.5	1458.5	1420.5	1382.5	1373.0	1155.9	866.5	721.8	614.6	400.1	239.3



TEST NUMBER: P935160

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1426.5	1484.8	1426.5	1368.1	1353.5	1131.3	835.2	687.1	591.5	400.3	256.9
115°	1388.7	1469.6	1388.7	1307.7	1287.5	1073.5	788.2	645.5	565.0	404.0	283.2
117.5°	1308.4	1398.2	1308.4	1218.7	1196.3	1003.1	745.6	616.9	548.4	411.5	308.8
120°	1243.8	1331.0	1243.8	1156.7	1134.8	958.3	723.1	605.4	542.8	417.6	323.7
122.5°	1180.9	1266.9	1180.9	1094.8	1073.3	914.4	702.5	596.6	539.9	426.4	341.3
125°	1091.0	1170.3	1091.0	1011.9	992.0	857.0	677.1	587.0	537.4	438.2	363.8
127.5°	1010.4	1077.2	1010.4	943.5	926.8	810.9	656.3	579.1	536.0	450.0	385.5
130°	962.8	1024.5	962.8	901.0	885.6	782.4	644.9	576.0	536.9	458.7	400.0
132.5°	919.5	974.9	919.5	864.3	850.4	758.0	634.9	573.3	537.4	465.6	411.9
135°	860.3	908.1	860.3	812.7	800.8	723.4	620.4	568.8	536.9	473.3	425.6
137.5°	813.0	852.0	813.0	773.9	764.2	698.7	611.6	568.0	540.2	484.7	443.2
140°	780.4	816.8	780.4	743.9	734.8	678.3	602.9	565.3	540.8	491.8	455.0
142.5°	753.4	784.8	753.4	722.0	714.2	664.5	598.3	565.3	542.7	497.7	463.8
145°	713.0	736.7	713.0	689.2	683.2	642.7	588.6	561.5	542.8	505.3	477.1
147.5°	681.9	701.6	681.9	662.3	657.3	625.4	582.8	561.5	546.5	516.5	493.9
150°	662.3	678.3	662.3	646.3	642.4	615.4	579.5	561.5	548.5	522.4	502.7
152.5°	645.6	657.7	645.6	633.6	630.5	607.5	576.9	561.5	549.7	526.1	508.4
155°	626.4	634.4	626.4	618.4	616.4	598.2	573.7	561.5	552.5	534.6	521.1
157.5°	611.3	616.9	611.3	605.6	604.2	590.0	571.0	561.5	555.3	542.9	533.6
160°	602.2	605.4	602.2	599.0	598.2	585.9	569.7	561.5	556.6	546.8	539.3
162.5°	596.2	599.3	596.2	593.1	592.4	582.1	568.4	561.5	558.0	550.8	545.5
165°	587.7	590.9	587.7	584.5	583.7	576.3	566.5	561.5	559.9	556.7	554.2
167.5°	581.5	582.8	581.5	580.2	579.8	574.9	568.5	565.3	563.9	561.3	559.2
170°	579.8	579.8	579.8	579.8	579.8	574.9	568.5	565.3	565.2	565.0	564.9
172.5°	575.3	574.1	575.3	576.5	576.8	572.9	567.9	565.3	565.3	565.3	565.3
175°	572.5	572.5	572.5	572.5	572.5	570.2	567.0	565.3	566.0	567.6	568.8
177.5°	570.2	568.8	570.2	571.4	571.8	569.9	567.3	566.0	566.7	567.9	568.8
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935160

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	984.0	978.4	978.4	969.2	965.5	962.8	958.2	944.4	940.7	937.1	942.6
5°	992.2	982.1	974.7	958.2	944.4	938.9	921.5	888.4	866.4	849.9	840.7
7.5°	994.0	981.2	967.3	941.6	908.6	893.9	840.7	780.1	763.6	748.9	739.8
10°	992.2	977.4	958.2	919.6	841.6	815.9	762.7	723.2	713.1	710.4	713.1
12.5°	985.8	971.9	945.3	881.1	771.9	754.4	723.2	700.3	698.5	703.0	727.8
15°	974.7	961.8	930.6	829.7	733.3	720.5	698.5	690.2	700.3	732.4	806.7
17.5°	963.7	949.0	910.4	779.2	704.0	694.8	679.2	695.7	752.6	795.7	820.5
20°	949.0	931.6	887.5	742.5	682.9	674.6	667.3	741.6	784.7	800.3	814.1
22.5°	931.6	913.2	856.3	716.8	660.8	654.4	659.0	767.3	784.7	795.7	807.7
25°	908.6	893.0	819.6	696.6	643.4	636.1	653.5	764.5	774.6	777.4	801.2
27.5°	887.5	867.3	781.1	678.3	622.3	619.5	658.1	752.6	759.9	762.7	788.4
30°	861.8	831.5	737.9	659.0	600.3	599.3	659.0	737.9	736.1	743.4	769.1
32.5°	835.2	778.3	689.3	635.1	579.2	578.2	652.6	715.9	714.1	724.2	743.4
35°	810.4	737.0	623.2	607.6	552.5	553.5	637.0	690.2	691.1	700.3	712.2
37.5°	784.7	701.2	550.7	577.3	526.8	526.8	615.9	666.3	664.5	667.3	683.8
40°	754.4	645.2	486.5	537.9	503.0	500.2	590.2	640.6	634.2	633.3	656.2
42.5°	722.3	583.7	438.7	485.6	475.5	471.8	559.0	609.4	597.5	600.3	629.6
45°	687.4	567.2	402.0	410.3	447.0	444.3	525.0	573.7	565.4	572.7	603.0
47.5°	652.6	534.2	390.1	340.6	416.7	415.8	487.4	538.8	534.2	541.5	573.7
50°	604.9	497.5	389.2	291.8	382.8	386.4	442.4	504.8	504.8	511.2	545.2
52.5°	543.4	452.5	353.4	264.3	343.3	354.3	403.0	475.5	477.3	483.7	514.0
55°	487.4	405.7	327.7	243.2	296.4	320.3	364.4	445.2	448.8	455.3	482.8
57.5°	436.0	337.8	322.1	218.4	253.3	276.2	330.5	415.8	417.6	423.1	449.8
60°	380.9	244.1	295.5	191.8	215.7	233.1	299.2	380.9	387.4	391.0	414.0
62.5°	318.4	177.1	268.0	173.4	197.3	201.0	273.5	347.9	356.2	358.9	372.7
65°	226.7	148.7	227.6	157.8	178.0	179.0	245.9	313.9	321.2	325.8	336.0
67.5°	153.3	121.1	173.4	143.2	163.3	164.3	219.3	274.4	284.5	288.2	294.6
70°	106.5	80.8	128.5	127.6	146.8	148.7	190.9	238.6	247.8	250.5	254.2
72.5°	78.0	65.2	106.5	114.7	129.4	131.2	161.5	198.2	207.4	210.2	212.0
75°	59.7	68.8	86.3	100.0	110.1	111.0	132.1	161.5	167.9	169.8	170.7
77.5°	47.7	64.2	63.3	80.8	89.9	88.1	103.7	124.8	130.3	130.3	130.3
80°	35.8	50.5	47.7	57.8	66.1	64.2	74.3	89.0	90.9	92.7	91.8
82.5°	26.6	32.1	32.1	36.7	44.0	42.2	49.6	57.8	57.8	57.8	59.7
85°	16.5	18.4	14.7	19.3	24.8	23.9	27.5	31.2	32.1	32.1	30.3
87.5°	10.1	8.3	4.6	7.3	11.0	11.0	12.8	13.8	12.8	12.8	12.8
90°	9.9	6.9	3.9	6.9	9.9	10.6	16.8	25.0	29.0	25.8	19.4
92.5°	67.2	41.2	15.2	41.2	67.2	73.7	103.6	143.4	163.3	143.2	102.8
95°	131.7	84.2	36.6	84.2	131.7	143.5	254.8	403.2	477.5	426.1	323.3
97.5°	147.2	105.3	63.3	105.3	147.2	157.7	343.3	590.8	714.5	682.0	617.1
100°	160.0	122.0	84.0	122.0	160.0	169.5	375.5	650.2	787.5	789.9	794.5
102.5°	172.4	137.0	101.5	137.0	172.4	181.3	390.3	668.8	808.1	849.5	932.3
105°	191.3	161.3	131.3	161.3	191.3	198.9	401.2	670.9	805.8	898.6	1084.2
107.5°	217.9	189.9	161.9	189.9	217.9	224.8	403.2	641.0	759.9	889.4	1148.3
110°	233.0	207.8	182.4	207.8	233.0	239.3	400.1	614.6	721.8	866.5	1155.9



TEST NUMBER: P935160

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	250.8	226.8	202.7	226.8	250.8	256.9	400.3	591.5	687.1	835.2	1131.3
115°	277.6	255.4	233.2	255.4	277.6	283.2	404.0	565.0	645.5	788.2	1073.5
117.5°	303.8	283.6	263.4	283.6	303.8	308.8	411.5	548.4	616.9	745.6	1003.1
120°	318.9	299.9	280.9	299.9	318.9	323.7	417.6	542.8	605.4	723.1	958.3
122.5°	336.5	317.3	298.2	317.3	336.5	341.3	426.4	539.9	596.6	702.5	914.4
125°	359.4	341.9	324.5	341.9	359.4	363.8	438.2	537.4	587.0	677.1	857.0
127.5°	381.1	363.4	345.8	363.4	381.1	385.5	450.0	536.0	579.1	656.3	810.9
130°	395.3	376.3	357.3	376.3	395.3	400.0	458.7	536.9	576.0	644.9	782.4
132.5°	407.1	388.1	369.1	388.1	407.1	411.9	465.6	537.4	573.3	634.9	758.0
135°	421.3	404.0	386.7	404.0	421.3	425.6	473.3	536.9	568.8	620.4	723.4
137.5°	438.8	421.8	404.6	421.8	438.8	443.2	484.7	540.2	568.0	611.6	698.7
140°	451.0	435.3	419.5	435.3	451.0	455.0	491.8	540.8	565.3	602.9	678.3
142.5°	460.1	445.5	430.9	445.5	460.1	463.8	497.7	542.7	565.3	598.3	664.5
145°	473.9	461.2	448.5	461.2	473.9	477.1	505.3	542.8	561.5	588.6	642.7
147.5°	490.8	478.5	466.1	478.5	490.8	493.9	516.5	546.5	561.5	582.8	625.4
150°	499.9	488.7	477.5	488.7	499.9	502.7	522.4	548.5	561.5	579.5	615.4
152.5°	506.3	497.8	489.3	497.8	506.3	508.4	526.1	549.7	561.5	576.9	607.5
155°	519.5	513.2	506.9	513.2	519.5	521.1	534.6	552.5	561.5	573.7	598.2
157.5°	532.1	526.0	519.9	526.0	532.1	533.6	542.9	555.3	561.5	571.0	590.0
160°	538.1	533.5	528.7	533.5	538.1	539.3	546.8	556.6	561.5	569.7	585.9
162.5°	544.6	541.0	537.4	541.0	544.6	545.5	550.8	558.0	561.5	568.4	582.1
165°	553.4	550.2	546.9	550.2	553.4	554.2	556.7	559.9	561.5	566.5	576.3
167.5°	558.9	557.3	555.8	557.3	558.9	559.2	561.3	563.9	565.3	568.5	574.9
170°	564.6	563.0	561.5	563.0	564.6	564.9	565.0	565.2	565.3	568.5	574.9
172.5°	565.2	564.9	564.6	564.9	565.2	565.3	565.3	565.3	565.3	567.9	572.9
175°	568.8	568.8	568.8	568.8	568.8	568.8	567.6	566.0	565.3	567.0	570.2
177.5°	568.8	568.8	568.8	568.8	568.8	568.8	567.9	566.7	566.0	567.3	569.9
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935160

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	936.1	933.4	937.1	927.0	937.1	933.4	936.1	942.6	937.1	940.7	944.4
5°	821.4	816.8	802.2	790.2	802.2	816.8	821.4	840.7	849.9	866.4	888.4
7.5°	734.2	730.6	726.9	719.6	726.9	730.6	734.2	739.8	748.9	763.6	780.1
10°	715.0	715.9	721.4	720.5	721.4	715.9	715.0	713.1	710.4	713.1	723.2
12.5°	764.5	772.8	803.1	801.2	803.1	772.8	764.5	727.8	703.0	698.5	700.3
15°	821.4	824.2	830.6	831.5	830.6	824.2	821.4	806.7	732.4	700.3	690.2
17.5°	826.9	827.9	832.4	832.4	832.4	827.9	826.9	820.5	795.7	752.6	695.7
20°	822.3	824.2	833.4	835.2	833.4	824.2	822.3	814.1	800.3	784.7	741.6
22.5°	820.5	824.2	831.5	830.6	831.5	824.2	820.5	807.7	795.7	784.7	767.3
25°	811.3	811.3	812.3	813.2	812.3	811.3	811.3	801.2	777.4	774.6	764.5
27.5°	792.1	793.9	799.4	798.5	799.4	793.9	792.1	788.4	762.7	759.9	752.6
30°	774.6	772.8	768.2	764.5	768.2	772.8	774.6	769.1	743.4	736.1	737.9
32.5°	745.3	740.7	736.1	733.3	736.1	740.7	745.3	743.4	724.2	714.1	715.9
35°	710.4	711.3	710.4	707.6	710.4	711.3	710.4	712.2	700.3	691.1	690.2
37.5°	685.6	687.4	686.5	682.9	686.5	687.4	685.6	683.8	667.3	664.5	666.3
40°	659.9	660.8	659.9	657.2	659.9	660.8	659.9	656.2	633.3	634.2	640.6
42.5°	635.1	634.2	631.5	629.6	631.5	634.2	635.1	629.6	600.3	597.5	609.4
45°	606.7	607.6	602.1	599.3	602.1	607.6	606.7	603.0	572.7	565.4	573.7
47.5°	578.2	578.2	573.7	570.9	573.7	578.2	578.2	573.7	541.5	534.2	538.8
50°	548.0	547.0	540.6	539.7	540.6	547.0	548.0	545.2	511.2	504.8	504.8
52.5°	513.1	513.1	514.0	515.8	514.0	513.1	513.1	514.0	483.7	477.3	475.5
55°	482.8	483.7	490.1	492.0	490.1	483.7	482.8	482.8	455.3	448.8	445.2
57.5°	451.6	451.6	456.2	456.2	456.2	451.6	451.6	449.8	423.1	417.6	415.8
60°	415.8	417.6	421.3	420.4	421.3	417.6	415.8	414.0	391.0	387.4	380.9
62.5°	378.2	380.0	380.9	379.1	380.9	380.0	378.2	372.7	358.9	356.2	347.9
65°	338.7	340.6	341.5	339.6	341.5	340.6	338.7	336.0	325.8	321.2	313.9
67.5°	298.3	297.3	296.4	300.1	296.4	297.3	298.3	294.6	288.2	284.5	274.4
70°	257.0	257.0	256.0	257.9	256.0	257.0	257.0	254.2	250.5	247.8	238.6
72.5°	212.9	212.0	215.7	212.9	215.7	212.0	212.9	212.0	210.2	207.4	198.2
75°	169.8	171.6	169.8	172.5	169.8	171.6	169.8	170.7	169.8	167.9	161.5
77.5°	129.4	131.2	129.4	129.4	129.4	131.2	129.4	130.3	130.3	130.3	124.8
80°	91.8	90.9	90.9	89.9	90.9	90.9	91.8	91.8	92.7	90.9	89.0
82.5°	58.7	57.8	57.8	59.7	57.8	57.8	58.7	59.7	57.8	57.8	57.8
85°	32.1	33.0	31.2	31.2	31.2	33.0	32.1	30.3	32.1	32.1	31.2
87.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.9	12.8	12.8	12.8	13.8
90°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	19.4	25.8	29.0	25.0
92.5°	72.5	69.7	58.1	46.5	58.1	69.7	72.5	102.8	143.2	163.3	143.4
95°	246.2	237.5	202.5	167.6	202.5	237.5	246.2	323.3	426.1	477.5	403.2
97.5°	568.3	551.7	485.2	418.7	485.2	551.7	568.3	617.1	682.0	714.5	590.8
100°	798.1	778.3	699.1	619.9	699.1	778.3	798.1	794.5	789.9	787.5	650.2
102.5°	994.3	977.3	909.5	841.7	909.5	977.3	994.3	932.3	849.5	808.1	668.8
105°	1223.4	1214.3	1177.8	1141.3	1177.8	1214.3	1223.4	1084.2	898.6	805.8	670.9
107.5°	1342.5	1344.7	1353.5	1362.3	1353.5	1344.7	1342.5	1148.3	889.4	759.9	641.0
110°	1373.0	1382.5	1420.5	1458.5	1420.5	1382.5	1373.0	1155.9	866.5	721.8	614.6



TEST NUMBER: P935160

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1353.5	1368.1	1426.5	1484.8	1426.5	1368.1	1353.5	1131.3	835.2	687.1	591.5
115°	1287.5	1307.7	1388.7	1469.6	1388.7	1307.7	1287.5	1073.5	788.2	645.5	565.0
117.5°	1196.3	1218.7	1308.4	1398.2	1308.4	1218.7	1196.3	1003.1	745.6	616.9	548.4
120°	1134.8	1156.7	1243.8	1331.0	1243.8	1156.7	1134.8	958.3	723.1	605.4	542.8
122.5°	1073.3	1094.8	1180.9	1266.9	1180.9	1094.8	1073.3	914.4	702.5	596.6	539.9
125°	992.0	1011.9	1091.0	1170.3	1091.0	1011.9	992.0	857.0	677.1	587.0	537.4
127.5°	926.8	943.5	1010.4	1077.2	1010.4	943.5	926.8	810.9	656.3	579.1	536.0
130°	885.6	901.0	962.8	1024.5	962.8	901.0	885.6	782.4	644.9	576.0	536.9
132.5°	850.4	864.3	919.5	974.9	919.5	864.3	850.4	758.0	634.9	573.3	537.4
135°	800.8	812.7	860.3	908.1	860.3	812.7	800.8	723.4	620.4	568.8	536.9
137.5°	764.2	773.9	813.0	852.0	813.0	773.9	764.2	698.7	611.6	568.0	540.2
140°	734.8	743.9	780.4	816.8	780.4	743.9	734.8	678.3	602.9	565.3	540.8
142.5°	714.2	722.0	753.4	784.8	753.4	722.0	714.2	664.5	598.3	565.3	542.7
145°	683.2	689.2	713.0	736.7	713.0	689.2	683.2	642.7	588.6	561.5	542.8
147.5°	657.3	662.3	681.9	701.6	681.9	662.3	657.3	625.4	582.8	561.5	546.5
150°	642.4	646.3	662.3	678.3	662.3	646.3	642.4	615.4	579.5	561.5	548.5
152.5°	630.5	633.6	645.6	657.7	645.6	633.6	630.5	607.5	576.9	561.5	549.7
155°	616.4	618.4	626.4	634.4	626.4	618.4	616.4	598.2	573.7	561.5	552.5
157.5°	604.2	605.6	611.3	616.9	611.3	605.6	604.2	590.0	571.0	561.5	555.3
160°	598.2	599.0	602.2	605.4	602.2	599.0	598.2	585.9	569.7	561.5	556.6
162.5°	592.4	593.1	596.2	599.3	596.2	593.1	592.4	582.1	568.4	561.5	558.0
165°	583.7	584.5	587.7	590.9	587.7	584.5	583.7	576.3	566.5	561.5	559.9
167.5°	579.8	580.2	581.5	582.8	581.5	580.2	579.8	574.9	568.5	565.3	563.9
170°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	574.9	568.5	565.3	565.2
172.5°	576.8	576.5	575.3	574.1	575.3	576.5	576.8	572.9	567.9	565.3	565.3
175°	572.5	572.5	572.5	572.5	572.5	572.5	572.5	570.2	567.0	565.3	566.0
177.5°	571.8	571.4	570.2	568.8	570.2	571.4	571.8	569.9	567.3	566.0	566.7
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



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CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	970.1	970.1	970.1	970.1	970.1
2.5°	958.2	962.8	965.5	969.2	978.4
5°	921.5	938.9	944.4	958.2	974.7
7.5°	840.7	893.9	908.6	941.6	967.3
10°	762.7	815.9	841.6	919.6	958.2
12.5°	723.2	754.4	771.9	881.1	945.3
15°	698.5	720.5	733.3	829.7	930.6
17.5°	679.2	694.8	704.0	779.2	910.4
20°	667.3	674.6	682.9	742.5	887.5
22.5°	659.0	654.4	660.8	716.8	856.3
25°	653.5	636.1	643.4	696.6	819.6
27.5°	658.1	619.5	622.3	678.3	781.1
30°	659.0	599.3	600.3	659.0	737.9
32.5°	652.6	578.2	579.2	635.1	689.3
35°	637.0	553.5	552.5	607.6	623.2
37.5°	615.9	526.8	526.8	577.3	550.7
40°	590.2	500.2	503.0	537.9	486.5
42.5°	559.0	471.8	475.5	485.6	438.7
45°	525.0	444.3	447.0	410.3	402.0
47.5°	487.4	415.8	416.7	340.6	390.1
50°	442.4	386.4	382.8	291.8	389.2
52.5°	403.0	354.3	343.3	264.3	353.4
55°	364.4	320.3	296.4	243.2	327.7
57.5°	330.5	276.2	253.3	218.4	322.1
60°	299.2	233.1	215.7	191.8	295.5
62.5°	273.5	201.0	197.3	173.4	268.0
65°	245.9	179.0	178.0	157.8	227.6
67.5°	219.3	164.3	163.3	143.2	173.4
70°	190.9	148.7	146.8	127.6	128.5
72.5°	161.5	131.2	129.4	114.7	106.5
75°	132.1	111.0	110.1	100.0	86.3
77.5°	103.7	88.1	89.9	80.8	63.3
80°	74.3	64.2	66.1	57.8	47.7
82.5°	49.6	42.2	44.0	36.7	32.1
85°	27.5	23.9	24.8	19.3	14.7
87.5°	12.8	11.0	11.0	7.3	4.6
90°	16.8	10.6	9.9	6.9	3.9
92.5°	103.6	73.7	67.2	41.2	15.2
95°	254.8	143.5	131.7	84.2	36.6
97.5°	343.3	157.7	147.2	105.3	63.3
100°	375.5	169.5	160.0	122.0	84.0
102.5°	390.3	181.3	172.4	137.0	101.5
105°	401.2	198.9	191.3	161.3	131.3
107.5°	403.2	224.8	217.9	189.9	161.9
110°	400.1	239.3	233.0	207.8	182.4



TEST NUMBER: P935160

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	400.3	256.9	250.8	226.8	202.7
115°	404.0	283.2	277.6	255.4	233.2
117.5°	411.5	308.8	303.8	283.6	263.4
120°	417.6	323.7	318.9	299.9	280.9
122.5°	426.4	341.3	336.5	317.3	298.2
125°	438.2	363.8	359.4	341.9	324.5
127.5°	450.0	385.5	381.1	363.4	345.8
130°	458.7	400.0	395.3	376.3	357.3
132.5°	465.6	411.9	407.1	388.1	369.1
135°	473.3	425.6	421.3	404.0	386.7
137.5°	484.7	443.2	438.8	421.8	404.6
140°	491.8	455.0	451.0	435.3	419.5
142.5°	497.7	463.8	460.1	445.5	430.9
145°	505.3	477.1	473.9	461.2	448.5
147.5°	516.5	493.9	490.8	478.5	466.1
150°	522.4	502.7	499.9	488.7	477.5
152.5°	526.1	508.4	506.3	497.8	489.3
155°	534.6	521.1	519.5	513.2	506.9
157.5°	542.9	533.6	532.1	526.0	519.9
160°	546.8	539.3	538.1	533.5	528.7
162.5°	550.8	545.5	544.6	541.0	537.4
165°	556.7	554.2	553.4	550.2	546.9
167.5°	561.3	559.2	558.9	557.3	555.8
170°	565.0	564.9	564.6	563.0	561.5
172.5°	565.3	565.3	565.2	564.9	564.6
175°	567.6	568.8	568.8	568.8	568.8
177.5°	567.9	568.8	568.8	568.8	568.8
180°	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935160
 CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-5000K

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	11.49	12.27	12.52	13.31	14.71	14.29	15.07	15.32	16.11	17.51
	3H	11.96	12.66	13.00	13.71	15.13	15.62	16.32	16.66	17.37	18.79
	4H	12.15	12.81	13.20	13.86	15.29	16.05	16.71	17.11	17.77	19.19
	6H	12.26	12.87	13.33	13.93	15.37	16.32	16.93	17.39	17.99	19.43
	8H	12.26	12.84	13.33	13.92	15.35	16.39	16.97	17.46	18.04	19.48
	12H	12.23	12.78	13.31	13.85	15.31	16.42	16.98	17.50	18.04	19.50
4H	2H	12.51	13.17	13.57	14.22	15.65	14.69	15.35	15.75	16.40	17.83
	3H	13.52	14.08	14.59	15.16	16.60	16.18	16.73	17.25	17.81	19.25
	4H	13.80	14.30	14.87	15.37	16.84	16.69	17.20	17.77	18.27	19.73
	6H	13.92	14.35	15.00	15.45	16.90	17.05	17.48	18.13	18.58	20.03
	8H	13.92	14.33	15.01	15.41	16.88	17.15	17.55	18.23	18.64	20.11
	12H	13.88	14.25	14.99	15.35	16.83	17.19	17.56	18.30	18.66	20.14
8H	4H	14.24	14.65	15.32	15.73	17.20	16.81	17.22	17.90	18.31	19.78
	6H	14.50	14.83	15.60	15.96	17.43	17.24	17.57	18.35	18.70	20.17
	8H	14.54	14.83	15.65	15.94	17.43	17.38	17.68	18.50	18.79	20.28
	12H	14.52	14.78	15.64	15.88	17.41	17.47	17.73	18.59	18.84	20.36
12H	4H	14.24	14.61	15.34	15.71	17.18	16.77	17.14	17.88	18.24	19.72
	6H	14.56	14.85	15.67	15.96	17.45	17.23	17.53	18.35	18.64	20.13
	8H	14.62	14.88	15.74	15.98	17.51	17.39	17.65	18.51	18.75	20.28