

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: P935158

Luminaire Tested: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935158
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

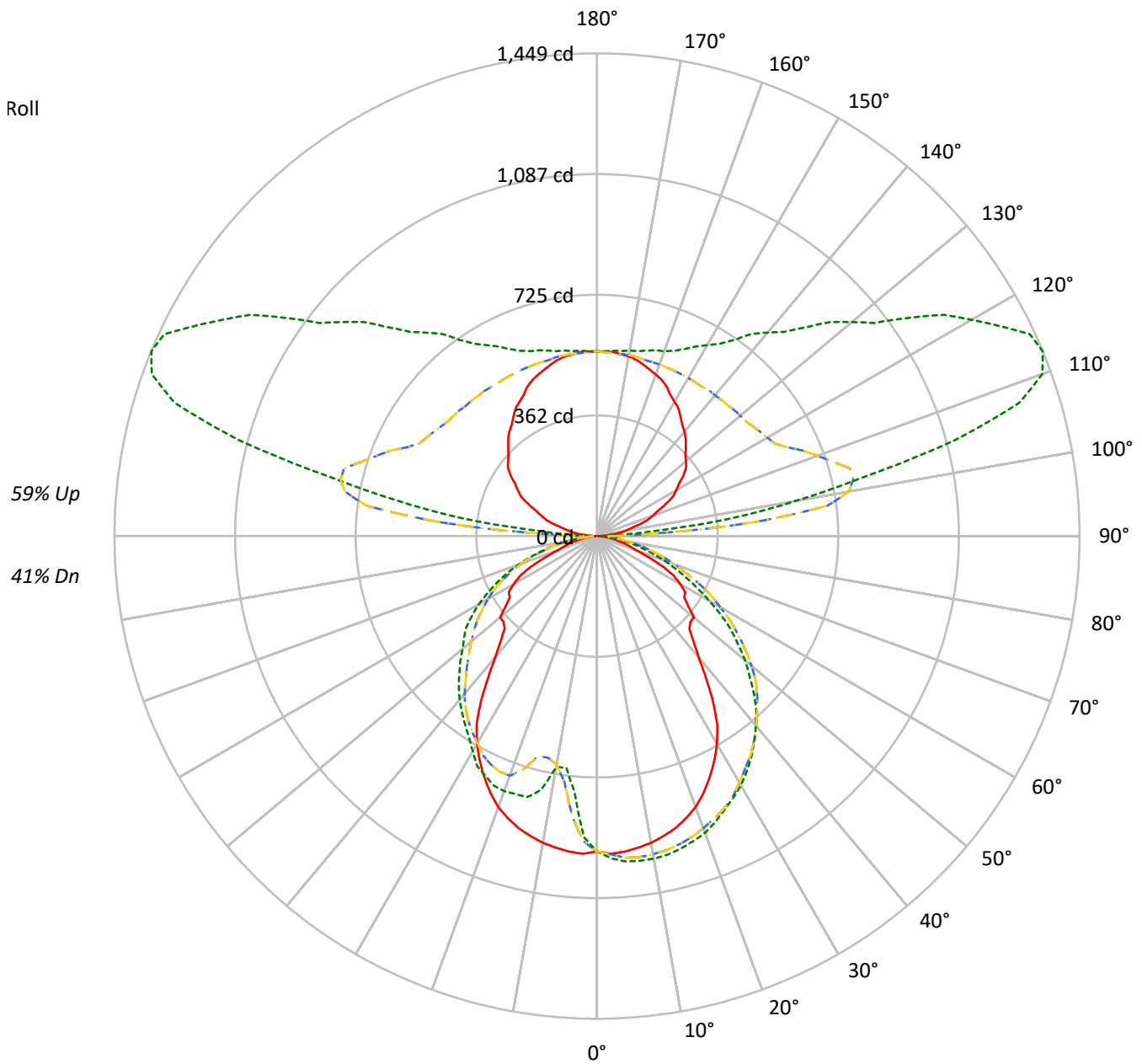
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6053.1 lumens
Efficiency: N/A
Efficacy: 123.0 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: P935158
CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	8782	8782	8782	8782
5°	8838	8866	8838	6971
10°	8769	8733	8769	6243
15°	8664	8544	8664	7134
20°	8473	8319	8473	7149
25°	8092	7992	8092	6997
30°	7604	7721	7604	6665
35°	6769	7378	6769	6300
40°	5631	6974	5631	6023
45°	5021	6501	5021	5706
50°	5323	5937	5323	5387
55°	4994	5329	4994	5203
60°	5128	4527	5128	4765
65°	4626	3740	4626	4183
70°	3181	2981	3181	3505
75°	2761	2204	2761	2638
80°	2181	1457	2181	1586
85°	1184	771	1184	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.4
10°-20°	242.6	4.0
20°-30°	375.0	6.2
30°-40°	447.6	7.4
40°-50°	450.3	7.4
50°-60°	391.8	6.5
60°-70°	277.8	4.6
70°-80°	146.9	2.4
80°-90°	38.7	0.6
90°-100°	270.5	4.5
100°-110°	711.1	11.7
110°-120°	737.3	12.2
120°-130°	591.4	9.8
130°-140°	464.0	7.7
140°-150°	356.2	5.9
150°-160°	256.5	4.2
160°-170°	156.9	2.6
170°-180°	53.0	0.9
0°-30°	703.0	11.6
0°-40°	1150.6	19.0
0°-60°	1992.7	32.9
0°-90°	2456.1	40.6
90°-120°	1718.9	28.4
90°-150°	3130.5	51.7
90°-180°	3597.0	59.4
0°-180°	6053.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	946	946	946	946	946	
5°	951	980	951	771	951	90
15°	908	972	908	811	908	255
25°	800	906	800	793	800	367
35°	608	809	608	690	608	376
45°	392	666	392	585	392	314
55°	320	492	320	480	320	294
65°	222	296	222	331	222	212
75°	84	141	84	168	84	89
85°	14	36	14	30	14	19
90°	4	14	4	14	4	4
95°	36	164	36	164	36	40
105°	128	1114	128	1114	128	136
115°	228	1434	228	1434	228	225
125°	317	1142	317	1142	317	281
135°	377	886	377	886	377	292
145°	438	719	438	719	438	274
155°	495	619	495	619	495	227
165°	534	576	534	576	534	151
175°	555	559	555	559	555	53
180°	555	555	555	555	555	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	954.5	954.5	960.0	961.7	961.7	959.1	956.4	959.1	967.1	969.8	968.9
5°	950.9	958.2	968.0	969.8	971.6	970.7	968.9	970.7	979.7	981.4	982.3
7.5°	943.7	957.3	969.8	972.5	975.2	972.5	971.6	973.4	982.3	984.1	984.1
10°	934.8	953.6	968.0	969.8	972.5	969.8	969.8	973.4	982.3	984.1	985.0
12.5°	922.3	948.2	961.7	963.5	967.1	966.2	965.3	968.9	977.9	979.7	979.7
15°	907.9	938.4	950.9	952.7	959.1	957.3	957.3	960.8	970.7	973.4	972.5
17.5°	888.2	925.8	940.2	942.9	947.3	946.4	947.3	950.9	960.0	961.7	962.6
20°	865.9	908.8	925.8	928.5	933.0	933.0	933.0	937.5	946.4	950.0	950.0
22.5°	835.4	890.9	908.8	910.6	916.0	916.0	917.8	924.1	932.1	933.0	933.0
25°	799.6	871.2	886.4	891.8	897.2	899.9	902.6	906.1	908.8	907.9	908.8
27.5°	762.0	846.2	865.9	869.4	876.6	879.3	882.9	883.8	884.7	887.3	885.6
30°	719.9	811.2	840.8	844.4	856.0	857.8	854.2	856.0	860.5	862.3	864.1
32.5°	672.5	759.3	814.8	822.9	833.6	828.3	827.4	830.0	837.2	837.2	839.0
35°	608.0	719.0	790.7	797.8	805.9	799.6	803.2	804.1	808.6	811.2	810.3
37.5°	537.3	684.1	765.6	771.0	777.2	769.2	774.5	777.2	780.8	779.0	779.0
40°	474.6	629.5	736.0	739.6	745.0	738.7	744.1	745.9	747.7	745.9	745.0
42.5°	428.0	569.5	704.7	709.2	705.6	710.1	711.9	715.4	712.8	709.2	709.2
45°	392.2	553.4	670.7	676.1	670.7	677.8	680.5	680.5	672.5	670.7	669.8
47.5°	380.6	521.2	636.7	636.7	634.0	642.9	647.4	641.1	633.1	630.4	630.4
50°	379.7	485.3	590.1	586.5	599.1	609.8	605.3	599.1	592.8	582.9	582.9
52.5°	344.8	441.5	530.1	543.5	563.2	569.5	562.3	556.1	545.3	540.9	537.3
55°	319.7	395.8	475.5	502.4	523.0	531.0	517.6	511.3	495.2	492.5	490.7
57.5°	314.3	329.6	425.4	459.4	484.5	483.6	475.5	463.9	450.4	447.7	446.9
60°	288.3	238.2	371.6	411.9	437.9	435.2	428.0	417.3	404.8	403.0	401.2
62.5°	261.4	172.8	310.7	356.4	393.1	392.2	386.0	369.9	360.9	356.4	352.8
65°	222.0	145.0	221.1	296.3	349.3	351.1	337.6	326.0	316.0	310.7	309.8
67.5°	169.2	118.2	149.5	247.1	307.1	305.3	288.3	282.9	270.4	267.7	262.3
70°	125.3	78.8	103.9	200.5	265.9	261.4	248.0	241.7	230.1	223.8	220.2
72.5°	103.9	63.6	76.1	155.8	223.8	218.5	206.8	199.7	189.8	184.4	180.9
75°	84.2	67.1	58.2	115.5	181.7	178.2	167.4	160.3	152.2	145.0	145.9
77.5°	61.8	62.7	46.6	85.1	144.1	138.8	132.5	123.6	120.0	112.8	112.8
80°	46.6	49.2	34.9	58.2	103.9	103.9	98.5	92.2	85.9	82.4	82.4
82.5°	31.3	31.3	26.0	36.7	70.7	68.0	64.5	62.7	59.1	57.3	57.3
85°	14.3	17.9	16.1	22.4	38.5	40.3	40.3	38.5	37.6	35.8	36.7
87.5°	4.5	8.1	9.8	12.5	19.7	20.6	21.5	21.5	21.5	22.4	22.4
90°	3.8	6.7	9.7	10.4	16.4	24.4	28.3	25.2	18.9	14.1	14.1
92.5°	14.9	40.2	65.5	71.9	101.1	139.9	159.4	139.7	100.3	70.7	68.0
95°	35.7	82.1	128.5	140.0	248.6	393.4	465.8	415.7	315.4	240.2	231.7
97.5°	61.8	102.7	143.6	153.8	334.9	576.4	697.1	665.4	602.0	554.5	538.3
100°	81.9	119.0	156.1	165.4	366.4	634.3	768.3	770.6	775.2	778.7	759.3
102.5°	99.0	133.7	168.2	176.9	380.8	652.5	788.4	828.8	909.5	970.1	953.5
105°	128.1	157.4	186.7	194.0	391.4	654.6	786.2	876.7	1057.7	1193.5	1184.7
107.5°	157.9	185.2	212.5	219.4	393.4	625.4	741.4	867.7	1120.3	1309.8	1311.9
110°	178.0	202.7	227.3	233.5	390.4	599.6	704.2	845.4	1127.7	1339.5	1348.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	197.8	221.2	244.7	250.6	390.5	577.0	670.3	814.8	1103.7	1320.5	1334.7
115°	227.5	249.2	270.8	276.3	394.1	551.2	629.8	769.0	1047.3	1256.1	1275.8
117.5°	257.0	276.7	296.3	301.3	401.5	535.0	601.8	727.4	978.7	1167.1	1189.0
120°	274.1	292.6	311.1	315.8	407.4	529.6	590.6	705.4	935.0	1107.1	1128.5
122.5°	290.9	309.6	328.3	333.0	416.0	526.7	582.0	685.4	892.1	1047.2	1068.1
125°	316.6	333.6	350.6	354.9	427.5	524.3	572.7	660.6	836.1	967.8	987.2
127.5°	337.4	354.5	371.8	376.1	439.1	523.0	564.9	640.3	791.1	904.2	920.5
130°	348.5	367.1	385.6	390.3	447.5	523.8	562.0	629.1	763.3	864.0	879.0
132.5°	360.1	378.6	397.2	401.8	454.3	524.3	559.3	619.4	739.5	829.7	843.2
135°	377.3	394.1	411.0	415.2	461.8	523.8	554.9	605.2	705.8	781.2	792.9
137.5°	394.7	411.5	428.1	432.3	472.9	527.1	554.1	596.6	681.7	745.5	755.0
140°	409.2	424.6	440.0	443.9	479.8	527.6	551.5	588.2	661.7	716.9	725.7
142.5°	420.4	434.7	448.9	452.5	485.5	529.5	551.5	583.7	648.3	696.7	704.4
145°	437.5	450.0	462.3	465.5	493.0	529.6	547.8	574.3	627.0	666.6	672.4
147.5°	454.7	466.8	478.8	481.9	503.9	533.2	547.8	568.6	610.2	641.3	646.1
150°	465.8	476.8	487.7	490.5	509.6	535.1	547.8	565.4	600.4	626.7	630.6
152.5°	477.4	485.6	493.9	496.0	513.3	536.3	547.8	562.8	592.7	615.2	618.1
155°	494.6	500.7	506.8	508.4	521.5	539.1	547.8	559.7	583.6	601.4	603.4
157.5°	507.2	513.2	519.1	520.6	529.7	541.8	547.8	557.1	575.6	589.5	590.8
160°	515.8	520.4	525.0	526.2	533.4	543.0	547.8	555.8	571.7	583.6	584.4
162.5°	524.3	527.8	531.3	532.2	537.4	544.3	547.8	554.6	567.9	577.9	578.6
165°	533.6	536.7	539.9	540.7	543.1	546.2	547.8	552.7	562.3	569.4	570.2
167.5°	542.2	543.7	545.2	545.6	547.6	550.2	551.5	554.6	560.9	565.7	566.0
170°	547.8	549.3	550.8	551.2	551.2	551.4	551.5	554.6	560.9	565.7	565.7
172.5°	550.8	551.2	551.4	551.5	551.5	551.5	551.5	554.0	558.9	562.7	562.4
175°	554.9	554.9	554.9	554.9	553.8	552.2	551.5	553.1	556.3	558.6	558.6
177.5°	554.9	554.9	554.9	554.9	554.0	552.9	552.2	553.5	556.0	557.9	557.5
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	970.7	968.0	970.7	968.9	969.8	967.1	959.1	956.4	959.1	961.7	961.7
5°	982.3	980.5	982.3	982.3	981.4	979.7	970.7	968.9	970.7	971.6	969.8
7.5°	985.9	983.2	985.9	984.1	984.1	982.3	973.4	971.6	972.5	975.2	972.5
10°	985.9	983.2	985.9	985.0	984.1	982.3	973.4	969.8	969.8	972.5	969.8
12.5°	981.4	979.7	981.4	979.7	979.7	977.9	968.9	965.3	966.2	967.1	963.5
15°	974.3	971.6	974.3	972.5	973.4	970.7	960.8	957.3	957.3	959.1	952.7
17.5°	963.5	960.0	963.5	962.6	961.7	960.0	950.9	947.3	946.4	947.3	942.9
20°	950.9	948.2	950.9	950.0	950.0	946.4	937.5	933.0	933.0	933.0	928.5
22.5°	931.2	928.5	931.2	933.0	933.0	932.1	924.1	917.8	916.0	916.0	910.6
25°	908.8	906.1	908.8	908.8	907.9	908.8	906.1	902.6	899.9	897.2	891.8
27.5°	887.3	885.6	887.3	885.6	887.3	884.7	883.8	882.9	879.3	876.6	869.4
30°	865.9	864.1	865.9	864.1	862.3	860.5	856.0	854.2	857.8	856.0	844.4
32.5°	839.0	837.2	839.0	839.0	837.2	837.2	830.0	827.4	828.3	833.6	822.9
35°	811.2	808.6	811.2	810.3	811.2	808.6	804.1	803.2	799.6	805.9	797.8
37.5°	779.0	776.3	779.0	779.0	779.0	780.8	777.2	774.5	769.2	777.2	771.0
40°	745.9	742.3	745.9	745.0	745.9	747.7	745.9	744.1	738.7	745.0	739.6
42.5°	708.3	707.4	708.3	709.2	709.2	712.8	715.4	711.9	710.1	705.6	709.2
45°	668.0	666.2	668.0	669.8	670.7	672.5	680.5	680.5	677.8	670.7	676.1
47.5°	625.0	620.5	625.0	630.4	630.4	633.1	641.1	647.4	642.9	634.0	636.7
50°	579.4	580.3	579.4	582.9	582.9	592.8	599.1	605.3	609.8	599.1	586.5
52.5°	534.6	533.7	534.6	537.3	540.9	545.3	556.1	562.3	569.5	563.2	543.5
55°	489.8	491.6	489.8	490.7	492.5	495.2	511.3	517.6	531.0	523.0	502.4
57.5°	445.1	442.4	445.1	446.9	447.7	450.4	463.9	475.5	483.6	484.5	459.4
60°	393.1	389.6	393.1	401.2	403.0	404.8	417.3	428.0	435.2	437.9	411.9
62.5°	347.5	341.2	347.5	352.8	356.4	360.9	369.9	386.0	392.2	393.1	356.4
65°	299.0	296.3	299.0	309.8	310.7	316.0	326.0	337.6	351.1	349.3	296.3
67.5°	255.2	255.2	255.2	262.3	267.7	270.4	282.9	288.3	305.3	307.1	247.1
70°	214.9	214.0	214.9	220.2	223.8	230.1	241.7	248.0	261.4	265.9	200.5
72.5°	176.4	175.5	176.4	180.9	184.4	189.8	199.7	206.8	218.5	223.8	155.8
75°	142.4	140.6	142.4	145.9	145.0	152.2	160.3	167.4	178.2	181.7	115.5
77.5°	109.2	109.2	109.2	112.8	112.8	120.0	123.6	132.5	138.8	144.1	85.1
80°	81.5	80.6	81.5	82.4	82.4	85.9	92.2	98.5	103.9	103.9	58.2
82.5°	57.3	55.5	57.3	57.3	57.3	59.1	62.7	64.5	68.0	70.7	36.7
85°	35.8	35.8	35.8	36.7	35.8	37.6	38.5	40.3	40.3	38.5	22.4
87.5°	23.3	22.4	23.3	22.4	22.4	21.5	21.5	21.5	20.6	19.7	12.5
90°	14.1	14.1	14.1	14.1	14.1	18.9	25.2	28.3	24.4	16.4	10.4
92.5°	56.7	45.4	56.7	68.0	70.7	100.3	139.7	159.4	139.9	101.1	71.9
95°	197.6	163.5	197.6	231.7	240.2	315.4	415.7	465.8	393.4	248.6	140.0
97.5°	473.4	408.5	473.4	538.3	554.5	602.0	665.4	697.1	576.4	334.9	153.8
100°	682.0	604.8	682.0	759.3	778.7	775.2	770.6	768.3	634.3	366.4	165.4
102.5°	887.3	821.2	887.3	953.5	970.1	909.5	828.8	788.4	652.5	380.8	176.9
105°	1149.0	1113.5	1149.0	1184.7	1193.5	1057.7	876.7	786.2	654.6	391.4	194.0
107.5°	1320.5	1329.1	1320.5	1311.9	1309.8	1120.3	867.7	741.4	625.4	393.4	219.4
110°	1385.9	1422.9	1385.9	1348.8	1339.5	1127.7	845.4	704.2	599.6	390.4	233.5



TEST NUMBER: P935158

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1391.7	1448.6	1391.7	1334.7	1320.5	1103.7	814.8	670.3	577.0	390.5	250.6
115°	1354.8	1433.8	1354.8	1275.8	1256.1	1047.3	769.0	629.8	551.2	394.1	276.3
117.5°	1276.5	1364.1	1276.5	1189.0	1167.1	978.7	727.4	601.8	535.0	401.5	301.3
120°	1213.5	1298.6	1213.5	1128.5	1107.1	935.0	705.4	590.6	529.6	407.4	315.8
122.5°	1152.1	1236.0	1152.1	1068.1	1047.2	892.1	685.4	582.0	526.7	416.0	333.0
125°	1064.4	1141.8	1064.4	987.2	967.8	836.1	660.6	572.7	524.3	427.5	354.9
127.5°	985.7	1050.9	985.7	920.5	904.2	791.1	640.3	564.9	523.0	439.1	376.1
130°	939.3	999.5	939.3	879.0	864.0	763.3	629.1	562.0	523.8	447.5	390.3
132.5°	897.1	951.1	897.1	843.2	829.7	739.5	619.4	559.3	524.3	454.3	401.8
135°	839.4	885.9	839.4	792.9	781.2	705.8	605.2	554.9	523.8	461.8	415.2
137.5°	793.2	831.2	793.2	755.0	745.5	681.7	596.6	554.1	527.1	472.9	432.3
140°	761.4	796.9	761.4	725.7	716.9	661.7	588.2	551.5	527.6	479.8	443.9
142.5°	735.1	765.7	735.1	704.4	696.7	648.3	583.7	551.5	529.5	485.5	452.5
145°	695.6	718.8	695.6	672.4	666.6	627.0	574.3	547.8	529.6	493.0	465.5
147.5°	665.3	684.5	665.3	646.1	641.3	610.2	568.6	547.8	533.2	503.9	481.9
150°	646.1	661.7	646.1	630.6	626.7	600.4	565.4	547.8	535.1	509.6	490.5
152.5°	629.9	641.7	629.9	618.1	615.2	592.7	562.8	547.8	536.3	513.3	496.0
155°	611.1	618.9	611.1	603.4	601.4	583.6	559.7	547.8	539.1	521.5	508.4
157.5°	596.4	601.8	596.4	590.8	589.5	575.6	557.1	547.8	541.8	529.7	520.6
160°	587.5	590.6	587.5	584.4	583.6	571.7	555.8	547.8	543.0	533.4	526.2
162.5°	581.7	584.6	581.7	578.6	577.9	567.9	554.6	547.8	544.3	537.4	532.2
165°	573.4	576.5	573.4	570.2	569.4	562.3	552.7	547.8	546.2	543.1	540.7
167.5°	567.3	568.6	567.3	566.0	565.7	560.9	554.6	551.5	550.2	547.6	545.6
170°	565.7	565.7	565.7	565.7	565.7	560.9	554.6	551.5	551.4	551.2	551.2
172.5°	561.3	560.1	561.3	562.4	562.7	558.9	554.0	551.5	551.5	551.5	551.5
175°	558.6	558.6	558.6	558.6	558.6	556.3	553.1	551.5	552.2	553.8	554.9
177.5°	556.3	554.9	556.3	557.5	557.9	556.0	553.5	552.2	552.9	554.0	554.9
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935158

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	960.0	954.5	954.5	945.5	942.0	939.3	934.8	921.4	917.8	914.2	919.6
5°	968.0	958.2	950.9	934.8	921.4	916.0	899.0	866.8	845.3	829.1	820.2
7.5°	969.8	957.3	943.7	918.7	886.4	872.1	820.2	761.1	745.0	730.7	721.7
10°	968.0	953.6	934.8	897.2	821.1	796.0	744.1	705.6	695.7	693.1	695.7
12.5°	961.7	948.2	922.3	859.6	753.0	736.0	705.6	683.2	681.4	685.9	710.1
15°	950.9	938.4	907.9	809.5	715.4	702.9	681.4	673.4	683.2	714.5	787.1
17.5°	940.2	925.8	888.2	760.2	686.8	677.8	662.6	678.7	734.2	776.3	800.5
20°	925.8	908.8	865.9	724.4	666.2	658.1	651.0	723.5	765.6	780.8	794.2
22.5°	908.8	890.9	835.4	699.3	644.7	638.4	642.9	748.6	765.6	776.3	788.0
25°	886.4	871.2	799.6	679.6	627.7	620.5	637.6	745.9	755.7	758.4	781.7
27.5°	865.9	846.2	762.0	661.7	607.1	604.4	642.0	734.2	741.4	744.1	769.2
30°	840.8	811.2	719.9	642.9	585.6	584.7	642.9	719.9	718.1	725.3	750.4
32.5°	814.8	759.3	672.5	619.6	565.0	564.1	636.7	698.4	696.6	706.5	725.3
35°	790.7	719.0	608.0	592.8	539.1	540.0	621.4	673.4	674.3	683.2	694.9
37.5°	765.6	684.1	537.3	563.2	514.0	514.0	600.8	650.1	648.3	651.0	667.1
40°	736.0	629.5	474.6	524.7	490.7	488.0	575.8	625.0	618.8	617.9	640.2
42.5°	704.7	569.5	428.0	473.7	463.9	460.3	545.3	594.6	582.9	585.6	614.3
45°	670.7	553.4	392.2	400.3	436.1	433.4	512.2	559.7	551.6	558.8	588.3
47.5°	636.7	521.2	380.6	332.3	406.6	405.7	475.5	525.6	521.2	528.3	559.7
50°	590.1	485.3	379.7	284.7	373.4	377.0	431.6	492.5	492.5	498.8	531.9
52.5°	530.1	441.5	344.8	257.8	334.9	345.7	393.1	463.9	465.7	471.9	501.5
55°	475.5	395.8	319.7	237.3	289.2	312.5	355.5	434.3	437.9	444.2	471.0
57.5°	425.4	329.6	314.3	213.1	247.1	269.5	322.4	405.7	407.5	412.8	438.8
60°	371.6	238.2	288.3	187.1	210.4	227.4	291.9	371.6	377.9	381.5	403.9
62.5°	310.7	172.8	261.4	169.2	192.5	196.1	266.8	339.4	347.5	350.2	363.6
65°	221.1	145.0	222.0	154.0	173.7	174.6	239.9	306.2	313.4	317.8	327.8
67.5°	149.5	118.2	169.2	139.7	159.4	160.3	214.0	267.7	277.5	281.1	287.4
70°	103.9	78.8	125.3	124.4	143.2	145.0	186.2	232.8	241.7	244.4	248.0
72.5°	76.1	63.6	103.9	111.9	126.2	128.0	157.6	193.4	202.3	205.0	206.8
75°	58.2	67.1	84.2	97.6	107.4	108.3	128.9	157.6	163.8	165.6	166.5
77.5°	46.6	62.7	61.8	78.8	87.7	85.9	101.2	121.8	127.1	127.1	127.1
80°	34.9	49.2	46.6	56.4	64.5	62.7	72.5	86.8	88.6	90.4	89.5
82.5°	26.0	31.3	31.3	35.8	43.0	41.2	48.3	56.4	56.4	56.4	58.2
85°	16.1	17.9	14.3	18.8	24.2	23.3	26.9	30.4	31.3	31.3	29.5
87.5°	9.8	8.1	4.5	7.2	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	9.7	6.7	3.8	6.7	9.7	10.4	16.4	24.4	28.3	25.2	18.9
92.5°	65.5	40.2	14.9	40.2	65.5	71.9	101.1	139.9	159.4	139.7	100.3
95°	128.5	82.1	35.7	82.1	128.5	140.0	248.6	393.4	465.8	415.7	315.4
97.5°	143.6	102.7	61.8	102.7	143.6	153.8	334.9	576.4	697.1	665.4	602.0
100°	156.1	119.0	81.9	119.0	156.1	165.4	366.4	634.3	768.3	770.6	775.2
102.5°	168.2	133.7	99.0	133.7	168.2	176.9	380.8	652.5	788.4	828.8	909.5
105°	186.7	157.4	128.1	157.4	186.7	194.0	391.4	654.6	786.2	876.7	1057.7
107.5°	212.5	185.2	157.9	185.2	212.5	219.4	393.4	625.4	741.4	867.7	1120.3
110°	227.3	202.7	178.0	202.7	227.3	233.5	390.4	599.6	704.2	845.4	1127.7



TEST NUMBER: P935158

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	244.7	221.2	197.8	221.2	244.7	250.6	390.5	577.0	670.3	814.8	1103.7
115°	270.8	249.2	227.5	249.2	270.8	276.3	394.1	551.2	629.8	769.0	1047.3
117.5°	296.3	276.7	257.0	276.7	296.3	301.3	401.5	535.0	601.8	727.4	978.7
120°	311.1	292.6	274.1	292.6	311.1	315.8	407.4	529.6	590.6	705.4	935.0
122.5°	328.3	309.6	290.9	309.6	328.3	333.0	416.0	526.7	582.0	685.4	892.1
125°	350.6	333.6	316.6	333.6	350.6	354.9	427.5	524.3	572.7	660.6	836.1
127.5°	371.8	354.5	337.4	354.5	371.8	376.1	439.1	523.0	564.9	640.3	791.1
130°	385.6	367.1	348.5	367.1	385.6	390.3	447.5	523.8	562.0	629.1	763.3
132.5°	397.2	378.6	360.1	378.6	397.2	401.8	454.3	524.3	559.3	619.4	739.5
135°	411.0	394.1	377.3	394.1	411.0	415.2	461.8	523.8	554.9	605.2	705.8
137.5°	428.1	411.5	394.7	411.5	428.1	432.3	472.9	527.1	554.1	596.6	681.7
140°	440.0	424.6	409.2	424.6	440.0	443.9	479.8	527.6	551.5	588.2	661.7
142.5°	448.9	434.7	420.4	434.7	448.9	452.5	485.5	529.5	551.5	583.7	648.3
145°	462.3	450.0	437.5	450.0	462.3	465.5	493.0	529.6	547.8	574.3	627.0
147.5°	478.8	466.8	454.7	466.8	478.8	481.9	503.9	533.2	547.8	568.6	610.2
150°	487.7	476.8	465.8	476.8	487.7	490.5	509.6	535.1	547.8	565.4	600.4
152.5°	493.9	485.6	477.4	485.6	493.9	496.0	513.3	536.3	547.8	562.8	592.7
155°	506.8	500.7	494.6	500.7	506.8	508.4	521.5	539.1	547.8	559.7	583.6
157.5°	519.1	513.2	507.2	513.2	519.1	520.6	529.7	541.8	547.8	557.1	575.6
160°	525.0	520.4	515.8	520.4	525.0	526.2	533.4	543.0	547.8	555.8	571.7
162.5°	531.3	527.8	524.3	527.8	531.3	532.2	537.4	544.3	547.8	554.6	567.9
165°	539.9	536.7	533.6	536.7	539.9	540.7	543.1	546.2	547.8	552.7	562.3
167.5°	545.2	543.7	542.2	543.7	545.2	545.6	547.6	550.2	551.5	554.6	560.9
170°	550.8	549.3	547.8	549.3	550.8	551.2	551.2	551.4	551.5	554.6	560.9
172.5°	551.4	551.2	550.8	551.2	551.4	551.5	551.5	551.5	551.5	554.0	558.9
175°	554.9	554.9	554.9	554.9	554.9	554.9	553.8	552.2	551.5	553.1	556.3
177.5°	554.9	554.9	554.9	554.9	554.9	554.9	554.0	552.9	552.2	553.5	556.0
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935158

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	913.3	910.6	914.2	904.4	914.2	910.6	913.3	919.6	914.2	917.8	921.4
5°	801.4	796.9	782.6	771.0	782.6	796.9	801.4	820.2	829.1	845.3	866.8
7.5°	716.3	712.8	709.2	702.0	709.2	712.8	716.3	721.7	730.7	745.0	761.1
10°	697.5	698.4	703.8	702.9	703.8	698.4	697.5	695.7	693.1	695.7	705.6
12.5°	745.9	753.9	783.5	781.7	783.5	753.9	745.9	710.1	685.9	681.4	683.2
15°	801.4	804.1	810.3	811.2	810.3	804.1	801.4	787.1	714.5	683.2	673.4
17.5°	806.8	807.7	812.1	812.1	812.1	807.7	806.8	800.5	776.3	734.2	678.7
20°	802.3	804.1	813.0	814.8	813.0	804.1	802.3	794.2	780.8	765.6	723.5
22.5°	800.5	804.1	811.2	810.3	811.2	804.1	800.5	788.0	776.3	765.6	748.6
25°	791.5	791.5	792.4	793.3	792.4	791.5	791.5	781.7	758.4	755.7	745.9
27.5°	772.7	774.5	779.9	779.0	779.9	774.5	772.7	769.2	744.1	741.4	734.2
30°	755.7	753.9	749.5	745.9	749.5	753.9	755.7	750.4	725.3	718.1	719.9
32.5°	727.1	722.6	718.1	715.4	718.1	722.6	727.1	725.3	706.5	696.6	698.4
35°	693.1	694.0	693.1	690.4	693.1	694.0	693.1	694.9	683.2	674.3	673.4
37.5°	668.9	670.7	669.8	666.2	669.8	670.7	668.9	667.1	651.0	648.3	650.1
40°	643.8	644.7	643.8	641.1	643.8	644.7	643.8	640.2	617.9	618.8	625.0
42.5°	619.6	618.8	616.1	614.3	616.1	618.8	619.6	614.3	585.6	582.9	594.6
45°	591.9	592.8	587.4	584.7	587.4	592.8	591.9	588.3	558.8	551.6	559.7
47.5°	564.1	564.1	559.7	557.0	559.7	564.1	564.1	559.7	528.3	521.2	525.6
50°	534.6	533.7	527.4	526.5	527.4	533.7	534.6	531.9	498.8	492.5	492.5
52.5°	500.6	500.6	501.5	503.3	501.5	500.6	500.6	501.5	471.9	465.7	463.9
55°	471.0	471.9	478.2	480.0	478.2	471.9	471.0	471.0	444.2	437.9	434.3
57.5°	440.6	440.6	445.1	445.1	445.1	440.6	440.6	438.8	412.8	407.5	405.7
60°	405.7	407.5	411.0	410.1	411.0	407.5	405.7	403.9	381.5	377.9	371.6
62.5°	369.0	370.7	371.6	369.9	371.6	370.7	369.0	363.6	350.2	347.5	339.4
65°	330.5	332.3	333.1	331.4	333.1	332.3	330.5	327.8	317.8	313.4	306.2
67.5°	291.0	290.1	289.2	292.8	289.2	290.1	291.0	287.4	281.1	277.5	267.7
70°	250.7	250.7	249.8	251.6	249.8	250.7	250.7	248.0	244.4	241.7	232.8
72.5°	207.7	206.8	210.4	207.7	210.4	206.8	207.7	206.8	205.0	202.3	193.4
75°	165.6	167.4	165.6	168.3	165.6	167.4	165.6	166.5	165.6	163.8	157.6
77.5°	126.2	128.0	126.2	126.2	126.2	128.0	126.2	127.1	127.1	127.1	121.8
80°	89.5	88.6	88.6	87.7	88.6	88.6	89.5	89.5	90.4	88.6	86.8
82.5°	57.3	56.4	56.4	58.2	56.4	56.4	57.3	58.2	56.4	56.4	56.4
85°	31.3	32.2	30.4	30.4	30.4	32.2	31.3	29.5	31.3	31.3	30.4
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	18.9	25.2	28.3	24.4
92.5°	70.7	68.0	56.7	45.4	56.7	68.0	70.7	100.3	139.7	159.4	139.9
95°	240.2	231.7	197.6	163.5	197.6	231.7	240.2	315.4	415.7	465.8	393.4
97.5°	554.5	538.3	473.4	408.5	473.4	538.3	554.5	602.0	665.4	697.1	576.4
100°	778.7	759.3	682.0	604.8	682.0	759.3	778.7	775.2	770.6	768.3	634.3
102.5°	970.1	953.5	887.3	821.2	887.3	953.5	970.1	909.5	828.8	788.4	652.5
105°	1193.5	1184.7	1149.0	1113.5	1149.0	1184.7	1193.5	1057.7	876.7	786.2	654.6
107.5°	1309.8	1311.9	1320.5	1329.1	1320.5	1311.9	1309.8	1120.3	867.7	741.4	625.4
110°	1339.5	1348.8	1385.9	1422.9	1385.9	1348.8	1339.5	1127.7	845.4	704.2	599.6



TEST NUMBER: P935158

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1320.5	1334.7	1391.7	1448.6	1391.7	1334.7	1320.5	1103.7	814.8	670.3	577.0
115°	1256.1	1275.8	1354.8	1433.8	1354.8	1275.8	1256.1	1047.3	769.0	629.8	551.2
117.5°	1167.1	1189.0	1276.5	1364.1	1276.5	1189.0	1167.1	978.7	727.4	601.8	535.0
120°	1107.1	1128.5	1213.5	1298.6	1213.5	1128.5	1107.1	935.0	705.4	590.6	529.6
122.5°	1047.2	1068.1	1152.1	1236.0	1152.1	1068.1	1047.2	892.1	685.4	582.0	526.7
125°	967.8	987.2	1064.4	1141.8	1064.4	987.2	967.8	836.1	660.6	572.7	524.3
127.5°	904.2	920.5	985.7	1050.9	985.7	920.5	904.2	791.1	640.3	564.9	523.0
130°	864.0	879.0	939.3	999.5	939.3	879.0	864.0	763.3	629.1	562.0	523.8
132.5°	829.7	843.2	897.1	951.1	897.1	843.2	829.7	739.5	619.4	559.3	524.3
135°	781.2	792.9	839.4	885.9	839.4	792.9	781.2	705.8	605.2	554.9	523.8
137.5°	745.5	755.0	793.2	831.2	793.2	755.0	745.5	681.7	596.6	554.1	527.1
140°	716.9	725.7	761.4	796.9	761.4	725.7	716.9	661.7	588.2	551.5	527.6
142.5°	696.7	704.4	735.1	765.7	735.1	704.4	696.7	648.3	583.7	551.5	529.5
145°	666.6	672.4	695.6	718.8	695.6	672.4	666.6	627.0	574.3	547.8	529.6
147.5°	641.3	646.1	665.3	684.5	665.3	646.1	641.3	610.2	568.6	547.8	533.2
150°	626.7	630.6	646.1	661.7	646.1	630.6	626.7	600.4	565.4	547.8	535.1
152.5°	615.2	618.1	629.9	641.7	629.9	618.1	615.2	592.7	562.8	547.8	536.3
155°	601.4	603.4	611.1	618.9	611.1	603.4	601.4	583.6	559.7	547.8	539.1
157.5°	589.5	590.8	596.4	601.8	596.4	590.8	589.5	575.6	557.1	547.8	541.8
160°	583.6	584.4	587.5	590.6	587.5	584.4	583.6	571.7	555.8	547.8	543.0
162.5°	577.9	578.6	581.7	584.6	581.7	578.6	577.9	567.9	554.6	547.8	544.3
165°	569.4	570.2	573.4	576.5	573.4	570.2	569.4	562.3	552.7	547.8	546.2
167.5°	565.7	566.0	567.3	568.6	567.3	566.0	565.7	560.9	554.6	551.5	550.2
170°	565.7	565.7	565.7	565.7	565.7	565.7	565.7	560.9	554.6	551.5	551.4
172.5°	562.7	562.4	561.3	560.1	561.3	562.4	562.7	558.9	554.0	551.5	551.5
175°	558.6	558.6	558.6	558.6	558.6	558.6	558.6	556.3	553.1	551.5	552.2
177.5°	557.9	557.5	556.3	554.9	556.3	557.5	557.9	556.0	553.5	552.2	552.9
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935158

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	946.4	946.4	946.4	946.4	946.4
2.5°	934.8	939.3	942.0	945.5	954.5
5°	899.0	916.0	921.4	934.8	950.9
7.5°	820.2	872.1	886.4	918.7	943.7
10°	744.1	796.0	821.1	897.2	934.8
12.5°	705.6	736.0	753.0	859.6	922.3
15°	681.4	702.9	715.4	809.5	907.9
17.5°	662.6	677.8	686.8	760.2	888.2
20°	651.0	658.1	666.2	724.4	865.9
22.5°	642.9	638.4	644.7	699.3	835.4
25°	637.6	620.5	627.7	679.6	799.6
27.5°	642.0	604.4	607.1	661.7	762.0
30°	642.9	584.7	585.6	642.9	719.9
32.5°	636.7	564.1	565.0	619.6	672.5
35°	621.4	540.0	539.1	592.8	608.0
37.5°	600.8	514.0	514.0	563.2	537.3
40°	575.8	488.0	490.7	524.7	474.6
42.5°	545.3	460.3	463.9	473.7	428.0
45°	512.2	433.4	436.1	400.3	392.2
47.5°	475.5	405.7	406.6	332.3	380.6
50°	431.6	377.0	373.4	284.7	379.7
52.5°	393.1	345.7	334.9	257.8	344.8
55°	355.5	312.5	289.2	237.3	319.7
57.5°	322.4	269.5	247.1	213.1	314.3
60°	291.9	227.4	210.4	187.1	288.3
62.5°	266.8	196.1	192.5	169.2	261.4
65°	239.9	174.6	173.7	154.0	222.0
67.5°	214.0	160.3	159.4	139.7	169.2
70°	186.2	145.0	143.2	124.4	125.3
72.5°	157.6	128.0	126.2	111.9	103.9
75°	128.9	108.3	107.4	97.6	84.2
77.5°	101.2	85.9	87.7	78.8	61.8
80°	72.5	62.7	64.5	56.4	46.6
82.5°	48.3	41.2	43.0	35.8	31.3
85°	26.9	23.3	24.2	18.8	14.3
87.5°	12.5	10.7	10.7	7.2	4.5
90°	16.4	10.4	9.7	6.7	3.8
92.5°	101.1	71.9	65.5	40.2	14.9
95°	248.6	140.0	128.5	82.1	35.7
97.5°	334.9	153.8	143.6	102.7	61.8
100°	366.4	165.4	156.1	119.0	81.9
102.5°	380.8	176.9	168.2	133.7	99.0
105°	391.4	194.0	186.7	157.4	128.1
107.5°	393.4	219.4	212.5	185.2	157.9
110°	390.4	233.5	227.3	202.7	178.0



TEST NUMBER: P935158

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	390.5	250.6	244.7	221.2	197.8
115°	394.1	276.3	270.8	249.2	227.5
117.5°	401.5	301.3	296.3	276.7	257.0
120°	407.4	315.8	311.1	292.6	274.1
122.5°	416.0	333.0	328.3	309.6	290.9
125°	427.5	354.9	350.6	333.6	316.6
127.5°	439.1	376.1	371.8	354.5	337.4
130°	447.5	390.3	385.6	367.1	348.5
132.5°	454.3	401.8	397.2	378.6	360.1
135°	461.8	415.2	411.0	394.1	377.3
137.5°	472.9	432.3	428.1	411.5	394.7
140°	479.8	443.9	440.0	424.6	409.2
142.5°	485.5	452.5	448.9	434.7	420.4
145°	493.0	465.5	462.3	450.0	437.5
147.5°	503.9	481.9	478.8	466.8	454.7
150°	509.6	490.5	487.7	476.8	465.8
152.5°	513.3	496.0	493.9	485.6	477.4
155°	521.5	508.4	506.8	500.7	494.6
157.5°	529.7	520.6	519.1	513.2	507.2
160°	533.4	526.2	525.0	520.4	515.8
162.5°	537.4	532.2	531.3	527.8	524.3
165°	543.1	540.7	539.9	536.7	533.6
167.5°	547.6	545.6	545.2	543.7	542.2
170°	551.2	551.2	550.8	549.3	547.8
172.5°	551.5	551.5	551.4	551.2	550.8
175°	553.8	554.9	554.9	554.9	554.9
177.5°	554.0	554.9	554.9	554.9	554.9
180°	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935158
 CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.40	12.19	12.44	13.23	14.63	14.20	14.98	15.24	16.03	17.43
	3H	11.88	12.58	12.92	13.63	15.04	15.53	16.23	16.58	17.28	18.70
	4H	12.06	12.73	13.12	13.78	15.20	15.97	16.63	17.02	17.68	19.11
	6H	12.18	12.79	13.24	13.84	15.28	16.24	16.85	17.30	17.91	19.34
	8H	12.18	12.76	13.25	13.83	15.26	16.31	16.89	17.38	17.96	19.39
	12H	12.15	12.70	13.22	13.76	15.22	16.34	16.89	17.41	17.96	19.41
4H	2H	12.42	13.08	13.48	14.14	15.56	14.60	15.27	15.67	16.32	17.75
	3H	13.44	13.99	14.51	15.07	16.51	16.09	16.64	17.16	17.72	19.16
	4H	13.71	14.22	14.79	15.29	16.75	16.61	17.12	17.69	18.19	19.65
	6H	13.83	14.27	14.92	15.36	16.82	16.96	17.40	18.05	18.49	19.95
	8H	13.84	14.24	14.92	15.33	16.80	17.06	17.47	18.15	18.55	20.03
	12H	13.80	14.17	14.90	15.27	16.74	17.11	17.48	18.21	18.58	20.05
8H	4H	14.15	14.56	15.24	15.65	17.12	16.73	17.13	17.81	18.22	19.69
	6H	14.41	14.75	15.52	15.87	17.34	17.15	17.49	18.26	18.62	20.08
	8H	14.45	14.75	15.57	15.86	17.34	17.30	17.59	18.41	18.70	20.19
	12H	14.43	14.69	15.55	15.80	17.32	17.39	17.65	18.51	18.75	20.28
12H	4H	14.15	14.52	15.26	15.62	17.10	16.69	17.06	17.79	18.16	19.63
	6H	14.47	14.76	15.58	15.87	17.36	17.15	17.44	18.26	18.55	20.04
	8H	14.53	14.79	15.65	15.90	17.42	17.30	17.56	18.42	18.67	20.19