

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: P935133

Luminaire Tested: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935133
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-92765-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

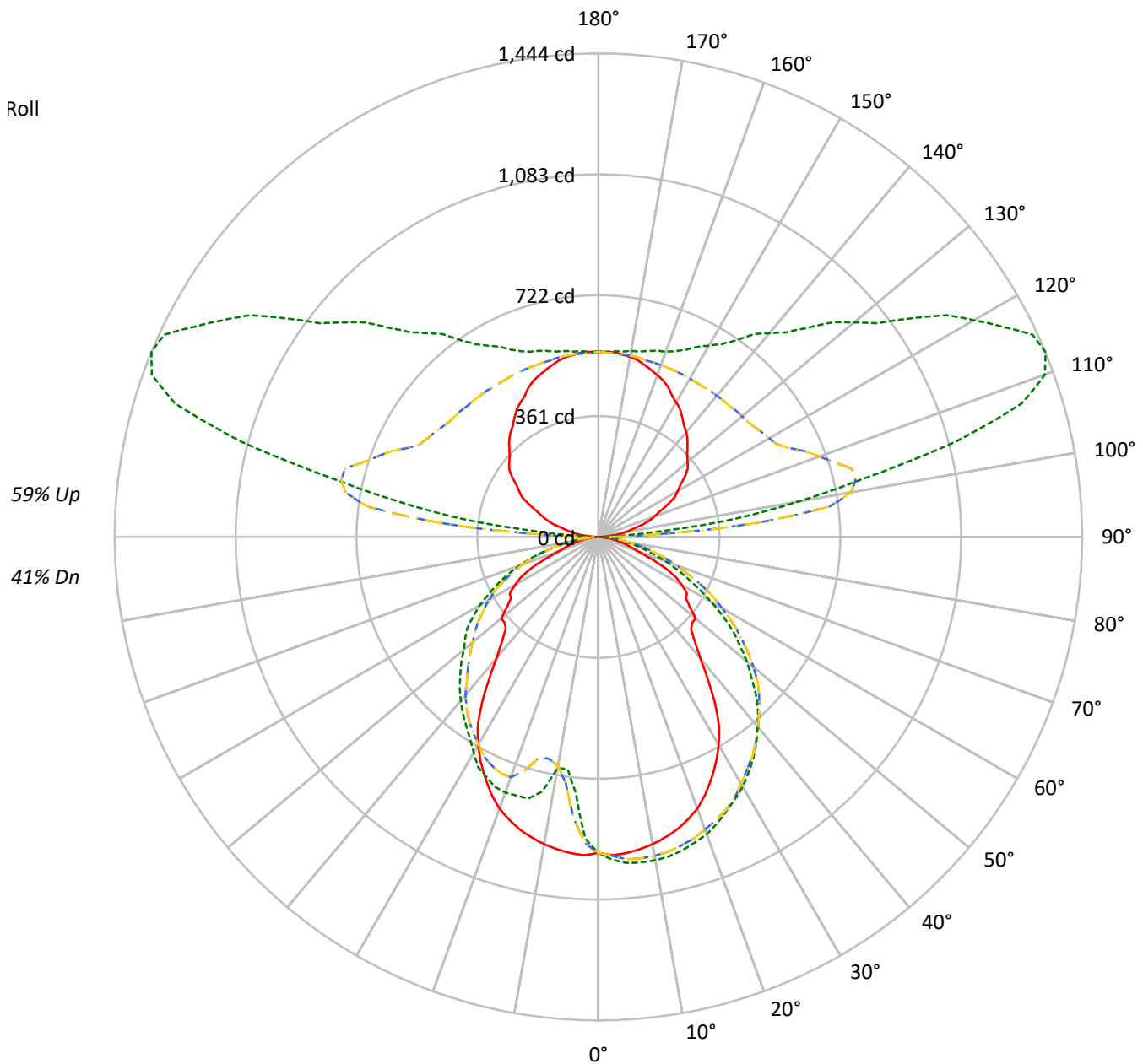
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6035.0 lumens
Efficiency: N/A
Efficacy: 122.7 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: P935133
CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot



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



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

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°	8756	8756	8756	8756
5°	8812	8839	8812	6950
10°	8743	8707	8743	6225
15°	8638	8519	8638	7113
20°	8448	8295	8448	7128
25°	8068	7968	8068	6977
30°	7582	7698	7582	6645
35°	6749	7355	6749	6281
40°	5614	6953	5614	6005
45°	5007	6481	5007	5689
50°	5307	5919	5307	5370
55°	4980	5313	4980	5187
60°	5112	4513	5112	4751
65°	4614	3730	4614	4170
70°	3173	2972	3173	3494
75°	2751	2196	2751	2631
80°	2172	1452	2172	1582
85°	1184	769	1184	653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7688 cd/sqm



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.4
10°-20°	241.8	4.0
20°-30°	373.8	6.2
30°-40°	446.3	7.4
40°-50°	448.9	7.4
50°-60°	390.6	6.5
60°-70°	276.9	4.6
70°-80°	146.5	2.4
80°-90°	38.6	0.6
90°-100°	269.7	4.5
100°-110°	709.0	11.7
110°-120°	735.1	12.2
120°-130°	589.6	9.8
130°-140°	462.7	7.7
140°-150°	355.1	5.9
150°-160°	255.7	4.2
160°-170°	156.5	2.6
170°-180°	52.9	0.9
0°-30°	700.9	11.6
0°-40°	1147.2	19.0
0°-60°	1986.7	32.9
0°-90°	2448.7	40.6
90°-120°	1713.7	28.4
90°-150°	3121.1	51.7
90°-180°	3586.0	59.4
0°-180°	6035.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	948	978	948	769	948	90
15°	905	969	905	809	905	255
25°	797	903	797	791	797	366
35°	606	806	606	688	606	375
45°	391	664	391	583	391	313
55°	319	490	319	478	319	293
65°	221	296	221	330	221	212
75°	84	140	84	168	84	88
85°	14	36	14	30	14	19
90°	4	14	4	14	4	4
95°	36	163	36	163	36	40
105°	128	1110	128	1110	128	135
115°	227	1429	227	1429	227	224
125°	316	1138	316	1138	316	280
135°	376	883	376	883	376	291
145°	436	717	436	717	436	273
155°	493	617	493	617	493	227
165°	532	575	532	575	532	150
175°	553	557	553	557	553	53
180°	553	553	553	553	553	



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	951.6	951.6	957.1	958.9	958.9	956.2	953.5	956.2	964.2	966.9	966.0
5°	948.1	955.3	965.1	966.9	968.7	967.8	966.0	967.8	976.7	978.5	979.4
7.5°	940.9	954.4	966.9	969.6	972.2	969.6	968.7	970.5	979.4	981.2	981.2
10°	932.0	950.7	965.1	966.9	969.6	966.9	966.9	970.5	979.4	981.2	982.1
12.5°	919.5	945.4	958.9	960.6	964.2	963.3	962.4	966.0	974.9	976.7	976.7
15°	905.2	935.6	948.1	949.8	956.2	954.4	954.4	958.0	967.8	970.5	969.6
17.5°	885.6	923.1	937.3	940.0	944.5	943.6	944.5	948.1	957.1	958.9	959.7
20°	863.3	906.1	923.1	925.7	930.2	930.2	930.2	934.7	943.6	947.2	947.2
22.5°	832.9	888.2	906.1	907.9	913.2	913.2	915.0	921.3	929.3	930.2	930.2
25°	797.2	868.6	883.8	889.1	894.5	897.2	899.9	903.4	906.1	905.2	906.1
27.5°	759.7	843.6	863.3	866.8	874.0	876.6	880.2	881.1	882.0	884.7	882.9
30°	717.8	808.8	838.3	841.8	853.4	855.2	851.6	853.4	857.9	859.7	861.5
32.5°	670.4	757.0	812.4	820.4	831.1	825.8	824.9	827.5	834.7	834.7	836.5
35°	606.2	716.9	788.3	795.4	803.4	797.2	800.8	801.7	806.1	808.8	807.9
37.5°	535.7	682.1	763.3	768.6	774.9	766.8	772.2	774.9	778.5	776.7	776.7
40°	473.2	627.6	733.8	737.4	742.7	736.5	741.9	743.6	745.4	743.6	742.7
42.5°	426.8	567.8	702.6	707.0	703.5	707.9	709.7	713.3	710.6	707.0	707.0
45°	391.1	551.7	668.7	674.0	668.7	675.8	678.5	678.5	670.4	668.7	667.8
47.5°	379.5	519.6	634.7	634.7	632.1	641.0	645.5	639.2	631.2	628.5	628.5
50°	378.6	483.9	588.3	584.8	597.3	608.0	603.5	597.3	591.0	581.2	581.2
52.5°	343.7	440.2	528.5	541.9	561.5	567.8	560.7	554.4	543.7	539.2	535.7
55°	318.8	394.6	474.1	500.8	521.4	529.4	516.0	509.8	493.7	491.0	489.2
57.5°	313.3	328.6	424.1	458.0	483.0	482.1	474.1	462.5	449.1	446.4	445.5
60°	287.4	237.4	370.5	410.7	436.6	433.9	426.8	416.1	403.6	401.8	400.0
62.5°	260.6	172.3	309.7	355.4	391.9	391.1	384.8	368.7	359.8	355.4	351.8
65°	221.4	144.6	220.5	295.5	348.2	350.0	336.6	325.0	315.1	309.7	308.8
67.5°	168.7	117.8	149.1	246.4	306.2	304.4	287.4	282.1	269.6	266.9	261.5
70°	125.0	78.6	103.5	199.9	265.1	260.6	247.3	241.0	229.4	223.2	219.6
72.5°	103.5	63.4	75.9	155.3	223.2	217.8	206.2	199.1	189.2	183.9	180.3
75°	83.9	66.9	58.0	115.1	181.2	177.6	166.9	159.8	151.7	144.6	145.5
77.5°	61.6	62.5	46.4	84.8	143.7	138.4	132.1	123.2	119.6	112.5	112.5
80°	46.4	49.1	34.8	58.0	103.5	103.5	98.2	91.9	85.7	82.1	82.1
82.5°	31.2	31.2	25.9	36.6	70.5	67.8	64.3	62.5	58.9	57.1	57.1
85°	14.3	17.9	16.1	22.3	38.4	40.2	40.2	38.4	37.5	35.7	36.6
87.5°	4.5	8.0	9.8	12.5	19.6	20.5	21.4	21.4	21.4	22.3	22.3
90°	3.7	6.7	9.6	10.4	16.3	24.3	28.2	25.1	18.8	14.1	14.1
92.5°	14.8	40.1	65.3	71.7	100.8	139.5	158.9	139.2	100.0	70.5	67.7
95°	35.6	81.9	128.1	139.6	247.9	392.2	464.4	414.4	314.5	239.5	231.0
97.5°	61.6	102.4	143.2	153.4	333.9	574.7	695.0	663.4	600.2	552.8	536.6
100°	81.7	118.6	155.6	164.9	365.3	632.4	766.0	768.3	772.8	776.3	757.0
102.5°	98.7	133.3	167.7	176.4	379.6	650.5	786.0	826.3	906.8	967.2	950.6
105°	127.7	156.9	186.1	193.4	390.3	652.6	783.8	874.1	1054.5	1190.0	1181.1
107.5°	157.5	184.7	211.9	218.7	392.2	623.5	739.2	865.1	1116.9	1305.8	1308.0
110°	177.5	202.1	226.6	232.8	389.2	597.8	702.0	842.8	1124.3	1335.4	1344.7



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	197.2	220.6	244.0	249.8	389.4	575.3	668.3	812.4	1100.4	1316.5	1330.7
115°	226.8	248.4	270.0	275.5	392.9	549.6	627.9	766.7	1044.2	1252.3	1272.0
117.5°	256.2	275.8	295.5	300.4	400.3	533.4	600.0	725.3	975.7	1163.6	1185.4
120°	273.2	291.7	310.2	314.8	406.1	528.0	588.9	703.3	932.2	1103.8	1125.1
122.5°	290.0	308.7	327.3	332.0	414.7	525.1	580.3	683.3	889.4	1044.0	1064.9
125°	315.6	332.6	349.5	353.8	426.2	522.7	571.0	658.6	833.6	964.9	984.2
127.5°	336.3	353.5	370.7	375.0	437.7	521.4	563.2	638.4	788.7	901.5	917.7
130°	347.5	366.0	384.5	389.1	446.1	522.3	560.3	627.2	761.0	861.4	876.4
132.5°	359.0	377.5	396.0	400.6	452.9	522.7	557.6	617.5	737.3	827.2	840.7
135°	376.2	392.9	409.8	414.0	460.4	522.3	553.2	603.4	703.7	778.9	790.5
137.5°	393.6	410.2	426.9	431.0	471.5	525.5	552.4	594.8	679.6	743.3	752.7
140°	408.0	423.4	438.7	442.6	478.4	526.0	549.9	586.5	659.7	714.7	723.6
142.5°	419.2	433.4	447.6	451.1	484.1	527.9	549.9	582.0	646.3	694.6	702.3
145°	436.2	448.6	460.9	464.1	491.5	528.0	546.2	572.5	625.1	664.6	670.4
147.5°	453.4	465.4	477.4	480.4	502.4	531.6	546.2	566.9	608.3	639.4	644.2
150°	464.4	475.3	486.2	489.0	508.1	533.5	546.2	563.7	598.6	624.8	628.7
152.5°	475.9	484.2	492.5	494.5	511.7	534.7	546.2	561.1	590.9	613.3	616.3
155°	493.1	499.2	505.3	506.8	520.0	537.4	546.2	558.1	581.8	599.6	601.5
157.5°	505.7	511.6	517.5	519.1	528.1	540.1	546.2	555.4	573.9	587.7	589.0
160°	514.2	518.9	523.4	524.6	531.8	541.4	546.2	554.1	569.9	581.8	582.6
162.5°	522.7	526.2	529.7	530.6	535.8	542.7	546.2	552.9	566.2	576.2	576.9
165°	532.0	535.1	538.2	539.1	541.5	544.6	546.2	551.0	560.6	567.7	568.5
167.5°	540.6	542.1	543.6	544.0	545.9	548.5	549.9	553.0	559.2	564.0	564.3
170°	546.2	547.6	549.1	549.5	549.6	549.8	549.9	553.0	559.2	564.0	564.0
172.5°	549.1	549.5	549.8	549.9	549.9	549.9	549.9	552.4	557.3	561.0	560.7
175°	553.2	553.2	553.2	553.2	552.1	550.6	549.9	551.5	554.6	556.9	556.9
177.5°	553.2	553.2	553.2	553.2	552.4	551.2	550.6	551.8	554.3	556.2	555.8
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	967.8	965.1	967.8	966.0	966.9	964.2	956.2	953.5	956.2	958.9	958.9
5°	979.4	977.6	979.4	979.4	978.5	976.7	967.8	966.0	967.8	968.7	966.9
7.5°	983.0	980.3	983.0	981.2	981.2	979.4	970.5	968.7	969.6	972.2	969.6
10°	983.0	980.3	983.0	982.1	981.2	979.4	970.5	966.9	966.9	969.6	966.9
12.5°	978.5	976.7	978.5	976.7	976.7	974.9	966.0	962.4	963.3	964.2	960.6
15°	971.3	968.7	971.3	969.6	970.5	967.8	958.0	954.4	954.4	956.2	949.8
17.5°	960.6	957.1	960.6	959.7	958.9	957.1	948.1	944.5	943.6	944.5	940.0
20°	948.1	945.4	948.1	947.2	947.2	943.6	934.7	930.2	930.2	930.2	925.7
22.5°	928.4	925.7	928.4	930.2	930.2	929.3	921.3	915.0	913.2	913.2	907.9
25°	906.1	903.4	906.1	906.1	905.2	906.1	903.4	899.9	897.2	894.5	889.1
27.5°	884.7	882.9	884.7	882.9	884.7	882.0	881.1	880.2	876.6	874.0	866.8
30°	863.3	861.5	863.3	861.5	859.7	857.9	853.4	851.6	855.2	853.4	841.8
32.5°	836.5	834.7	836.5	836.5	834.7	834.7	827.5	824.9	825.8	831.1	820.4
35°	808.8	806.1	808.8	807.9	808.8	806.1	801.7	800.8	797.2	803.4	795.4
37.5°	776.7	774.0	776.7	776.7	776.7	778.5	774.9	772.2	766.8	774.9	768.6
40°	743.6	740.1	743.6	742.7	743.6	745.4	743.6	741.9	736.5	742.7	737.4
42.5°	706.2	705.3	706.2	707.0	707.0	710.6	713.3	709.7	707.9	703.5	707.0
45°	666.0	664.2	666.0	667.8	668.7	670.4	678.5	678.5	675.8	668.7	674.0
47.5°	623.1	618.7	623.1	628.5	628.5	631.2	639.2	645.5	641.0	632.1	634.7
50°	577.6	578.5	577.6	581.2	581.2	591.0	597.3	603.5	608.0	597.3	584.8
52.5°	533.0	532.1	533.0	535.7	539.2	543.7	554.4	560.7	567.8	561.5	541.9
55°	488.4	490.1	488.4	489.2	491.0	493.7	509.8	516.0	529.4	521.4	500.8
57.5°	443.7	441.0	443.7	445.5	446.4	449.1	462.5	474.1	482.1	483.0	458.0
60°	391.9	388.4	391.9	400.0	401.8	403.6	416.1	426.8	433.9	436.6	410.7
62.5°	346.4	340.2	346.4	351.8	355.4	359.8	368.7	384.8	391.1	391.9	355.4
65°	298.1	295.5	298.1	308.8	309.7	315.1	325.0	336.6	350.0	348.2	295.5
67.5°	254.4	254.4	254.4	261.5	266.9	269.6	282.1	287.4	304.4	306.2	246.4
70°	214.2	213.3	214.2	219.6	223.2	229.4	241.0	247.3	260.6	265.1	199.9
72.5°	175.8	175.0	175.8	180.3	183.9	189.2	199.1	206.2	217.8	223.2	155.3
75°	141.9	140.1	141.9	145.5	144.6	151.7	159.8	166.9	177.6	181.2	115.1
77.5°	108.9	108.9	108.9	112.5	112.5	119.6	123.2	132.1	138.4	143.7	84.8
80°	81.2	80.3	81.2	82.1	82.1	85.7	91.9	98.2	103.5	103.5	58.0
82.5°	57.1	55.3	57.1	57.1	57.1	58.9	62.5	64.3	67.8	70.5	36.6
85°	35.7	35.7	35.7	36.6	35.7	37.5	38.4	40.2	40.2	38.4	22.3
87.5°	23.2	22.3	23.2	22.3	22.3	21.4	21.4	21.4	20.5	19.6	12.5
90°	14.1	14.1	14.1	14.1	14.1	18.8	25.1	28.2	24.3	16.3	10.4
92.5°	56.5	45.3	56.5	67.7	70.5	100.0	139.2	158.9	139.5	100.8	71.7
95°	197.0	163.0	197.0	231.0	239.5	314.5	414.4	464.4	392.2	247.9	139.6
97.5°	471.9	407.3	471.9	536.6	552.8	600.2	663.4	695.0	574.7	333.9	153.4
100°	680.0	603.0	680.0	757.0	776.3	772.8	768.3	766.0	632.4	365.3	164.9
102.5°	884.7	818.7	884.7	950.6	967.2	906.8	826.3	786.0	650.5	379.6	176.4
105°	1145.6	1110.2	1145.6	1181.1	1190.0	1054.5	874.1	783.8	652.6	390.3	193.4
107.5°	1316.5	1325.1	1316.5	1308.0	1305.8	1116.9	865.1	739.2	623.5	392.2	218.7
110°	1381.7	1418.6	1381.7	1344.7	1335.4	1124.3	842.8	702.0	597.8	389.2	232.8



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1387.5	1444.3	1387.5	1330.7	1316.5	1100.4	812.4	668.3	575.3	389.4	249.8
115°	1350.7	1429.4	1350.7	1272.0	1252.3	1044.2	766.7	627.9	549.6	392.9	275.5
117.5°	1272.7	1360.0	1272.7	1185.4	1163.6	975.7	725.3	600.0	533.4	400.3	300.4
120°	1209.9	1294.7	1209.9	1125.1	1103.8	932.2	703.3	588.9	528.0	406.1	314.8
122.5°	1148.6	1232.3	1148.6	1064.9	1044.0	889.4	683.3	580.3	525.1	414.7	332.0
125°	1061.2	1138.4	1061.2	984.2	964.9	833.6	658.6	571.0	522.7	426.2	353.8
127.5°	982.8	1047.8	982.8	917.7	901.5	788.7	638.4	563.2	521.4	437.7	375.0
130°	936.4	996.5	936.4	876.4	861.4	761.0	627.2	560.3	522.3	446.1	389.1
132.5°	894.4	948.2	894.4	840.7	827.2	737.3	617.5	557.6	522.7	452.9	400.6
135°	836.8	883.2	836.8	790.5	778.9	703.7	603.4	553.2	522.3	460.4	414.0
137.5°	790.8	828.7	790.8	752.7	743.3	679.6	594.8	552.4	525.5	471.5	431.0
140°	759.1	794.5	759.1	723.6	714.7	659.7	586.5	549.9	526.0	478.4	442.6
142.5°	732.8	763.4	732.8	702.3	694.6	646.3	582.0	549.9	527.9	484.1	451.1
145°	693.5	716.6	693.5	670.4	664.6	625.1	572.5	546.2	528.0	491.5	464.1
147.5°	663.3	682.4	663.3	644.2	639.4	608.3	566.9	546.2	531.6	502.4	480.4
150°	644.2	659.7	644.2	628.7	624.8	598.6	563.7	546.2	533.5	508.1	489.0
152.5°	628.0	639.7	628.0	616.3	613.3	590.9	561.1	546.2	534.7	511.7	494.5
155°	609.3	617.1	609.3	601.5	599.6	581.8	558.1	546.2	537.4	520.0	506.8
157.5°	594.6	600.0	594.6	589.0	587.7	573.9	555.4	546.2	540.1	528.1	519.1
160°	585.7	588.9	585.7	582.6	581.8	569.9	554.1	546.2	541.4	531.8	524.6
162.5°	579.9	582.9	579.9	576.9	576.2	566.2	552.9	546.2	542.7	535.8	530.6
165°	571.6	574.8	571.6	568.5	567.7	560.6	551.0	546.2	544.6	541.5	539.1
167.5°	565.6	566.9	565.6	564.3	564.0	559.2	553.0	549.9	548.5	545.9	544.0
170°	564.0	564.0	564.0	564.0	564.0	559.2	553.0	549.9	549.8	549.6	549.5
172.5°	559.6	558.4	559.6	560.7	561.0	557.3	552.4	549.9	549.9	549.9	549.9
175°	556.9	556.9	556.9	556.9	556.9	554.6	551.5	549.9	550.6	552.1	553.2
177.5°	554.6	553.2	554.6	555.8	556.2	554.3	551.8	550.6	551.2	552.4	553.2
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	957.1	951.6	951.6	942.7	939.1	936.4	932.0	918.6	915.0	911.5	916.8
5°	965.1	955.3	948.1	932.0	918.6	913.2	896.3	864.1	842.7	826.7	817.7
7.5°	966.9	954.4	940.9	915.9	883.8	869.5	817.7	758.8	742.7	728.5	719.5
10°	965.1	950.7	932.0	894.5	818.6	793.6	741.9	703.5	693.7	691.0	693.7
12.5°	958.9	945.4	919.5	857.0	750.8	733.8	703.5	681.2	679.4	683.8	707.9
15°	948.1	935.6	905.2	807.0	713.3	700.8	679.4	671.3	681.2	712.4	784.7
17.5°	937.3	923.1	885.6	757.9	684.7	675.8	660.6	676.7	732.0	774.0	798.1
20°	923.1	906.1	863.3	722.2	664.2	656.2	649.0	721.3	763.3	778.5	791.8
22.5°	906.1	888.2	832.9	697.2	642.8	636.5	641.0	746.3	763.3	774.0	785.6
25°	883.8	868.6	797.2	677.6	625.8	618.7	635.6	743.6	753.5	756.1	779.3
27.5°	863.3	843.6	759.7	659.7	605.3	602.6	640.1	732.0	739.2	741.9	766.8
30°	838.3	808.8	717.8	641.0	583.9	583.0	641.0	717.8	716.0	723.1	748.1
32.5°	812.4	757.0	670.4	617.8	563.3	562.4	634.7	696.3	694.5	704.4	723.1
35°	788.3	716.9	606.2	591.0	537.4	538.3	619.6	671.3	672.2	681.2	692.8
37.5°	763.3	682.1	535.7	561.5	512.5	512.5	599.0	648.1	646.3	649.0	665.1
40°	733.8	627.6	473.2	523.2	489.2	486.6	574.0	623.1	616.9	616.0	638.3
42.5°	702.6	567.8	426.8	472.3	462.5	458.9	543.7	592.8	581.2	583.9	612.4
45°	668.7	551.7	391.1	399.1	434.8	432.1	510.7	558.0	549.9	557.1	586.5
47.5°	634.7	519.6	379.5	331.3	405.3	404.4	474.1	524.1	519.6	526.7	558.0
50°	588.3	483.9	378.6	283.9	372.3	375.9	430.3	491.0	491.0	497.3	530.3
52.5°	528.5	440.2	343.7	257.1	333.9	344.6	391.9	462.5	464.3	470.5	500.0
55°	474.1	394.6	318.8	236.5	288.3	311.5	354.5	433.0	436.6	442.8	469.6
57.5°	424.1	328.6	313.3	212.4	246.4	268.7	321.4	404.4	406.2	411.6	437.5
60°	370.5	237.4	287.4	186.6	209.8	226.7	291.0	370.5	376.8	380.3	402.7
62.5°	309.7	172.3	260.6	168.7	191.9	195.5	266.0	338.4	346.4	349.1	362.5
65°	220.5	144.6	221.4	153.5	173.2	174.1	239.2	305.3	312.4	316.9	326.8
67.5°	149.1	117.8	168.7	139.2	158.9	159.8	213.3	266.9	276.7	280.3	286.5
70°	103.5	78.6	125.0	124.1	142.8	144.6	185.7	232.1	241.0	243.7	247.3
72.5°	75.9	63.4	103.5	111.6	125.9	127.6	157.1	192.8	201.7	204.4	206.2
75°	58.0	66.9	83.9	97.3	107.1	108.0	128.5	157.1	163.3	165.1	166.0
77.5°	46.4	62.5	61.6	78.6	87.5	85.7	100.9	121.4	126.8	126.8	126.8
80°	34.8	49.1	46.4	56.2	64.3	62.5	72.3	86.6	88.4	90.2	89.3
82.5°	25.9	31.2	31.2	35.7	42.8	41.1	48.2	56.2	56.2	56.2	58.0
85°	16.1	17.9	14.3	18.7	24.1	23.2	26.8	30.3	31.2	31.2	29.5
87.5°	9.8	8.0	4.5	7.1	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	9.6	6.7	3.7	6.7	9.6	10.4	16.3	24.3	28.2	25.1	18.8
92.5°	65.3	40.1	14.8	40.1	65.3	71.7	100.8	139.5	158.9	139.2	100.0
95°	128.1	81.9	35.6	81.9	128.1	139.6	247.9	392.2	464.4	414.4	314.5
97.5°	143.2	102.4	61.6	102.4	143.2	153.4	333.9	574.7	695.0	663.4	600.2
100°	155.6	118.6	81.7	118.6	155.6	164.9	365.3	632.4	766.0	768.3	772.8
102.5°	167.7	133.3	98.7	133.3	167.7	176.4	379.6	650.5	786.0	826.3	906.8
105°	186.1	156.9	127.7	156.9	186.1	193.4	390.3	652.6	783.8	874.1	1054.5
107.5°	211.9	184.7	157.5	184.7	211.9	218.7	392.2	623.5	739.2	865.1	1116.9
110°	226.6	202.1	177.5	202.1	226.6	232.8	389.2	597.8	702.0	842.8	1124.3



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	244.0	220.6	197.2	220.6	244.0	249.8	389.4	575.3	668.3	812.4	1100.4
115°	270.0	248.4	226.8	248.4	270.0	275.5	392.9	549.6	627.9	766.7	1044.2
117.5°	295.5	275.8	256.2	275.8	295.5	300.4	400.3	533.4	600.0	725.3	975.7
120°	310.2	291.7	273.2	291.7	310.2	314.8	406.1	528.0	588.9	703.3	932.2
122.5°	327.3	308.7	290.0	308.7	327.3	332.0	414.7	525.1	580.3	683.3	889.4
125°	349.5	332.6	315.6	332.6	349.5	353.8	426.2	522.7	571.0	658.6	833.6
127.5°	370.7	353.5	336.3	353.5	370.7	375.0	437.7	521.4	563.2	638.4	788.7
130°	384.5	366.0	347.5	366.0	384.5	389.1	446.1	522.3	560.3	627.2	761.0
132.5°	396.0	377.5	359.0	377.5	396.0	400.6	452.9	522.7	557.6	617.5	737.3
135°	409.8	392.9	376.2	392.9	409.8	414.0	460.4	522.3	553.2	603.4	703.7
137.5°	426.9	410.2	393.6	410.2	426.9	431.0	471.5	525.5	552.4	594.8	679.6
140°	438.7	423.4	408.0	423.4	438.7	442.6	478.4	526.0	549.9	586.5	659.7
142.5°	447.6	433.4	419.2	433.4	447.6	451.1	484.1	527.9	549.9	582.0	646.3
145°	460.9	448.6	436.2	448.6	460.9	464.1	491.5	528.0	546.2	572.5	625.1
147.5°	477.4	465.4	453.4	465.4	477.4	480.4	502.4	531.6	546.2	566.9	608.3
150°	486.2	475.3	464.4	475.3	486.2	489.0	508.1	533.5	546.2	563.7	598.6
152.5°	492.5	484.2	475.9	484.2	492.5	494.5	511.7	534.7	546.2	561.1	590.9
155°	505.3	499.2	493.1	499.2	505.3	506.8	520.0	537.4	546.2	558.1	581.8
157.5°	517.5	511.6	505.7	511.6	517.5	519.1	528.1	540.1	546.2	555.4	573.9
160°	523.4	518.9	514.2	518.9	523.4	524.6	531.8	541.4	546.2	554.1	569.9
162.5°	529.7	526.2	522.7	526.2	529.7	530.6	535.8	542.7	546.2	552.9	566.2
165°	538.2	535.1	532.0	535.1	538.2	539.1	541.5	544.6	546.2	551.0	560.6
167.5°	543.6	542.1	540.6	542.1	543.6	544.0	545.9	548.5	549.9	553.0	559.2
170°	549.1	547.6	546.2	547.6	549.1	549.5	549.6	549.8	549.9	553.0	559.2
172.5°	549.8	549.5	549.1	549.5	549.8	549.9	549.9	549.9	549.9	552.4	557.3
175°	553.2	553.2	553.2	553.2	553.2	553.2	552.1	550.6	549.9	551.5	554.6
177.5°	553.2	553.2	553.2	553.2	553.2	553.2	552.4	551.2	550.6	551.8	554.3
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	910.6	907.9	911.5	901.6	911.5	907.9	910.6	916.8	911.5	915.0	918.6
5°	799.0	794.5	780.2	768.6	780.2	794.5	799.0	817.7	826.7	842.7	864.1
7.5°	714.2	710.6	707.0	699.9	707.0	710.6	714.2	719.5	728.5	742.7	758.8
10°	695.4	696.3	701.7	700.8	701.7	696.3	695.4	693.7	691.0	693.7	703.5
12.5°	743.6	751.7	781.1	779.3	781.1	751.7	743.6	707.9	683.8	679.4	681.2
15°	799.0	801.7	807.9	808.8	807.9	801.7	799.0	784.7	712.4	681.2	671.3
17.5°	804.3	805.2	809.7	809.7	809.7	805.2	804.3	798.1	774.0	732.0	676.7
20°	799.9	801.7	810.6	812.4	810.6	801.7	799.9	791.8	778.5	763.3	721.3
22.5°	798.1	801.7	808.8	807.9	808.8	801.7	798.1	785.6	774.0	763.3	746.3
25°	789.2	789.2	790.1	791.0	790.1	789.2	789.2	779.3	756.1	753.5	743.6
27.5°	770.4	772.2	777.6	776.7	777.6	772.2	770.4	766.8	741.9	739.2	732.0
30°	753.5	751.7	747.2	743.6	747.2	751.7	753.5	748.1	723.1	716.0	717.8
32.5°	724.9	720.4	716.0	713.3	716.0	720.4	724.9	723.1	704.4	694.5	696.3
35°	691.0	691.9	691.0	688.3	691.0	691.9	691.0	692.8	681.2	672.2	671.3
37.5°	666.9	668.7	667.8	664.2	667.8	668.7	666.9	665.1	649.0	646.3	648.1
40°	641.9	642.8	641.9	639.2	641.9	642.8	641.9	638.3	616.0	616.9	623.1
42.5°	617.8	616.9	614.2	612.4	614.2	616.9	617.8	612.4	583.9	581.2	592.8
45°	590.1	591.0	585.6	583.0	585.6	591.0	590.1	586.5	557.1	549.9	558.0
47.5°	562.4	562.4	558.0	555.3	558.0	562.4	562.4	558.0	526.7	519.6	524.1
50°	533.0	532.1	525.8	524.9	525.8	532.1	533.0	530.3	497.3	491.0	491.0
52.5°	499.1	499.1	500.0	501.7	500.0	499.1	499.1	500.0	470.5	464.3	462.5
55°	469.6	470.5	476.7	478.5	476.7	470.5	469.6	469.6	442.8	436.6	433.0
57.5°	439.3	439.3	443.7	443.7	443.7	439.3	439.3	437.5	411.6	406.2	404.4
60°	404.4	406.2	409.8	408.9	409.8	406.2	404.4	402.7	380.3	376.8	370.5
62.5°	367.8	369.6	370.5	368.7	370.5	369.6	367.8	362.5	349.1	346.4	338.4
65°	329.5	331.3	332.1	330.4	332.1	331.3	329.5	326.8	316.9	312.4	305.3
67.5°	290.1	289.2	288.3	291.9	288.3	289.2	290.1	286.5	280.3	276.7	266.9
70°	249.9	249.9	249.0	250.8	249.0	249.9	249.9	247.3	243.7	241.0	232.1
72.5°	207.1	206.2	209.8	207.1	209.8	206.2	207.1	206.2	204.4	201.7	192.8
75°	165.1	166.9	165.1	167.8	165.1	166.9	165.1	166.0	165.1	163.3	157.1
77.5°	125.9	127.6	125.9	125.9	125.9	127.6	125.9	126.8	126.8	126.8	121.4
80°	89.3	88.4	88.4	87.5	88.4	88.4	89.3	89.3	90.2	88.4	86.6
82.5°	57.1	56.2	56.2	58.0	56.2	56.2	57.1	58.0	56.2	56.2	56.2
85°	31.2	32.1	30.3	30.3	30.3	32.1	31.2	29.5	31.2	31.2	30.3
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	18.8	25.1	28.2	24.3
92.5°	70.5	67.7	56.5	45.3	56.5	67.7	70.5	100.0	139.2	158.9	139.5
95°	239.5	231.0	197.0	163.0	197.0	231.0	239.5	314.5	414.4	464.4	392.2
97.5°	552.8	536.6	471.9	407.3	471.9	536.6	552.8	600.2	663.4	695.0	574.7
100°	776.3	757.0	680.0	603.0	680.0	757.0	776.3	772.8	768.3	766.0	632.4
102.5°	967.2	950.6	884.7	818.7	884.7	950.6	967.2	906.8	826.3	786.0	650.5
105°	1190.0	1181.1	1145.6	1110.2	1145.6	1181.1	1190.0	1054.5	874.1	783.8	652.6
107.5°	1305.8	1308.0	1316.5	1325.1	1316.5	1308.0	1305.8	1116.9	865.1	739.2	623.5
110°	1335.4	1344.7	1381.7	1418.6	1381.7	1344.7	1335.4	1124.3	842.8	702.0	597.8



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1316.5	1330.7	1387.5	1444.3	1387.5	1330.7	1316.5	1100.4	812.4	668.3	575.3
115°	1252.3	1272.0	1350.7	1429.4	1350.7	1272.0	1252.3	1044.2	766.7	627.9	549.6
117.5°	1163.6	1185.4	1272.7	1360.0	1272.7	1185.4	1163.6	975.7	725.3	600.0	533.4
120°	1103.8	1125.1	1209.9	1294.7	1209.9	1125.1	1103.8	932.2	703.3	588.9	528.0
122.5°	1044.0	1064.9	1148.6	1232.3	1148.6	1064.9	1044.0	889.4	683.3	580.3	525.1
125°	964.9	984.2	1061.2	1138.4	1061.2	984.2	964.9	833.6	658.6	571.0	522.7
127.5°	901.5	917.7	982.8	1047.8	982.8	917.7	901.5	788.7	638.4	563.2	521.4
130°	861.4	876.4	936.4	996.5	936.4	876.4	861.4	761.0	627.2	560.3	522.3
132.5°	827.2	840.7	894.4	948.2	894.4	840.7	827.2	737.3	617.5	557.6	522.7
135°	778.9	790.5	836.8	883.2	836.8	790.5	778.9	703.7	603.4	553.2	522.3
137.5°	743.3	752.7	790.8	828.7	790.8	752.7	743.3	679.6	594.8	552.4	525.5
140°	714.7	723.6	759.1	794.5	759.1	723.6	714.7	659.7	586.5	549.9	526.0
142.5°	694.6	702.3	732.8	763.4	732.8	702.3	694.6	646.3	582.0	549.9	527.9
145°	664.6	670.4	693.5	716.6	693.5	670.4	664.6	625.1	572.5	546.2	528.0
147.5°	639.4	644.2	663.3	682.4	663.3	644.2	639.4	608.3	566.9	546.2	531.6
150°	624.8	628.7	644.2	659.7	644.2	628.7	624.8	598.6	563.7	546.2	533.5
152.5°	613.3	616.3	628.0	639.7	628.0	616.3	613.3	590.9	561.1	546.2	534.7
155°	599.6	601.5	609.3	617.1	609.3	601.5	599.6	581.8	558.1	546.2	537.4
157.5°	587.7	589.0	594.6	600.0	594.6	589.0	587.7	573.9	555.4	546.2	540.1
160°	581.8	582.6	585.7	588.9	585.7	582.6	581.8	569.9	554.1	546.2	541.4
162.5°	576.2	576.9	579.9	582.9	579.9	576.9	576.2	566.2	552.9	546.2	542.7
165°	567.7	568.5	571.6	574.8	571.6	568.5	567.7	560.6	551.0	546.2	544.6
167.5°	564.0	564.3	565.6	566.9	565.6	564.3	564.0	559.2	553.0	549.9	548.5
170°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	559.2	553.0	549.9	549.8
172.5°	561.0	560.7	559.6	558.4	559.6	560.7	561.0	557.3	552.4	549.9	549.9
175°	556.9	556.9	556.9	556.9	556.9	556.9	556.9	554.6	551.5	549.9	550.6
177.5°	556.2	555.8	554.6	553.2	554.6	555.8	556.2	554.3	551.8	550.6	551.2
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	943.6	943.6	943.6	943.6	943.6
2.5°	932.0	936.4	939.1	942.7	951.6
5°	896.3	913.2	918.6	932.0	948.1
7.5°	817.7	869.5	883.8	915.9	940.9
10°	741.9	793.6	818.6	894.5	932.0
12.5°	703.5	733.8	750.8	857.0	919.5
15°	679.4	700.8	713.3	807.0	905.2
17.5°	660.6	675.8	684.7	757.9	885.6
20°	649.0	656.2	664.2	722.2	863.3
22.5°	641.0	636.5	642.8	697.2	832.9
25°	635.6	618.7	625.8	677.6	797.2
27.5°	640.1	602.6	605.3	659.7	759.7
30°	641.0	583.0	583.9	641.0	717.8
32.5°	634.7	562.4	563.3	617.8	670.4
35°	619.6	538.3	537.4	591.0	606.2
37.5°	599.0	512.5	512.5	561.5	535.7
40°	574.0	486.6	489.2	523.2	473.2
42.5°	543.7	458.9	462.5	472.3	426.8
45°	510.7	432.1	434.8	399.1	391.1
47.5°	474.1	404.4	405.3	331.3	379.5
50°	430.3	375.9	372.3	283.9	378.6
52.5°	391.9	344.6	333.9	257.1	343.7
55°	354.5	311.5	288.3	236.5	318.8
57.5°	321.4	268.7	246.4	212.4	313.3
60°	291.0	226.7	209.8	186.6	287.4
62.5°	266.0	195.5	191.9	168.7	260.6
65°	239.2	174.1	173.2	153.5	221.4
67.5°	213.3	159.8	158.9	139.2	168.7
70°	185.7	144.6	142.8	124.1	125.0
72.5°	157.1	127.6	125.9	111.6	103.5
75°	128.5	108.0	107.1	97.3	83.9
77.5°	100.9	85.7	87.5	78.6	61.6
80°	72.3	62.5	64.3	56.2	46.4
82.5°	48.2	41.1	42.8	35.7	31.2
85°	26.8	23.2	24.1	18.7	14.3
87.5°	12.5	10.7	10.7	7.1	4.5
90°	16.3	10.4	9.6	6.7	3.7
92.5°	100.8	71.7	65.3	40.1	14.8
95°	247.9	139.6	128.1	81.9	35.6
97.5°	333.9	153.4	143.2	102.4	61.6
100°	365.3	164.9	155.6	118.6	81.7
102.5°	379.6	176.4	167.7	133.3	98.7
105°	390.3	193.4	186.1	156.9	127.7
107.5°	392.2	218.7	211.9	184.7	157.5
110°	389.2	232.8	226.6	202.1	177.5



TEST NUMBER: P935133

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	389.4	249.8	244.0	220.6	197.2
115°	392.9	275.5	270.0	248.4	226.8
117.5°	400.3	300.4	295.5	275.8	256.2
120°	406.1	314.8	310.2	291.7	273.2
122.5°	414.7	332.0	327.3	308.7	290.0
125°	426.2	353.8	349.5	332.6	315.6
127.5°	437.7	375.0	370.7	353.5	336.3
130°	446.1	389.1	384.5	366.0	347.5
132.5°	452.9	400.6	396.0	377.5	359.0
135°	460.4	414.0	409.8	392.9	376.2
137.5°	471.5	431.0	426.9	410.2	393.6
140°	478.4	442.6	438.7	423.4	408.0
142.5°	484.1	451.1	447.6	433.4	419.2
145°	491.5	464.1	460.9	448.6	436.2
147.5°	502.4	480.4	477.4	465.4	453.4
150°	508.1	489.0	486.2	475.3	464.4
152.5°	511.7	494.5	492.5	484.2	475.9
155°	520.0	506.8	505.3	499.2	493.1
157.5°	528.1	519.1	517.5	511.6	505.7
160°	531.8	524.6	523.4	518.9	514.2
162.5°	535.8	530.6	529.7	526.2	522.7
165°	541.5	539.1	538.2	535.1	532.0
167.5°	545.9	544.0	543.6	542.1	540.6
170°	549.6	549.5	549.1	547.6	546.2
172.5°	549.9	549.9	549.8	549.5	549.1
175°	552.1	553.2	553.2	553.2	553.2
177.5°	552.4	553.2	553.2	553.2	553.2
180°	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935133
 CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-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	11.39	12.18	12.43	13.22	14.62	14.19	14.97	15.22	16.01	17.41
	3H	11.86	12.57	12.91	13.61	15.03	15.52	16.22	16.56	17.27	18.69
	4H	12.05	12.72	13.11	13.77	15.19	15.95	16.62	17.01	17.67	19.10
	6H	12.17	12.78	13.23	13.83	15.27	16.23	16.84	17.29	17.89	19.33
	8H	12.17	12.75	13.24	13.82	15.25	16.29	16.88	17.36	17.95	19.38
	12H	12.13	12.69	13.21	13.75	15.21	16.33	16.88	17.40	17.94	19.40
4H	2H	12.41	13.07	13.47	14.12	15.55	14.59	15.26	15.65	16.31	17.73
	3H	13.43	13.98	14.50	15.06	16.50	16.08	16.63	17.15	17.71	19.15
	4H	13.70	14.21	14.78	15.28	16.74	16.60	17.11	17.67	18.18	19.64
	6H	13.82	14.26	14.91	15.35	16.81	16.95	17.39	18.04	18.48	19.93
	8H	13.83	14.23	14.91	15.32	16.79	17.05	17.46	18.14	18.54	20.01
	12H	13.79	14.16	14.89	15.26	16.73	17.10	17.47	18.20	18.57	20.04
8H	4H	14.14	14.55	15.23	15.63	17.11	16.72	17.12	17.80	18.21	19.68
	6H	14.40	14.74	15.51	15.86	17.33	17.14	17.48	18.25	18.61	20.07
	8H	14.44	14.74	15.56	15.85	17.33	17.29	17.58	18.40	18.69	20.18
	12H	14.42	14.68	15.54	15.79	17.31	17.38	17.64	18.50	18.74	20.27
12H	4H	14.14	14.51	15.25	15.61	17.09	16.68	17.05	17.78	18.14	19.62
	6H	14.46	14.75	15.57	15.86	17.35	17.14	17.43	18.25	18.54	20.03
	8H	14.52	14.78	15.64	15.89	17.41	17.29	17.55	18.41	18.66	20.18