

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: P935186

Luminaire Tested: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935186
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

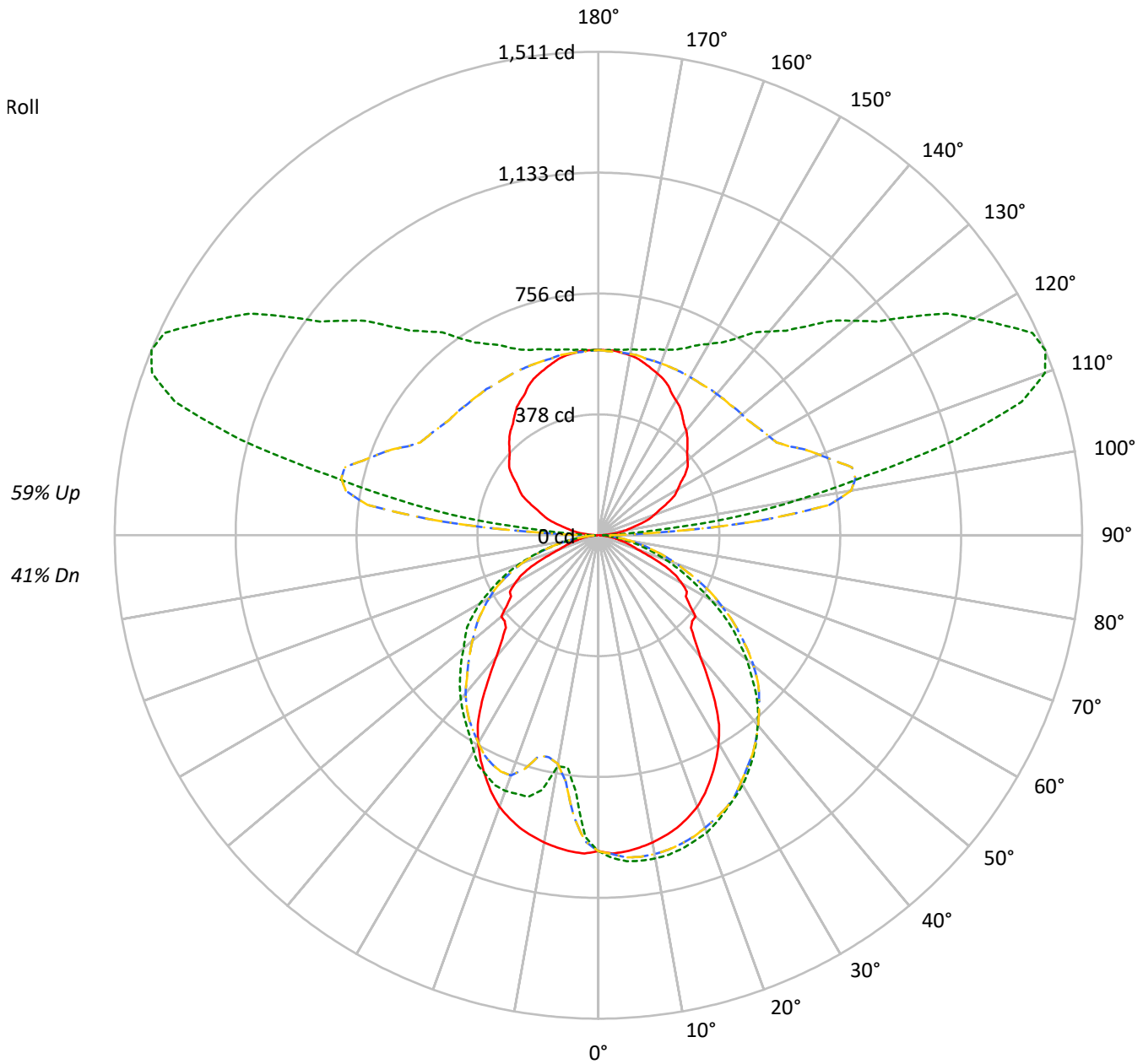
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6314.7 lumens
Efficiency: N/A
Efficacy: 128.3 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: P935186
CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-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°	9161	9161	9161	9161
5°	9220	9249	9220	7272
10°	9148	9111	9148	6513
15°	9039	8914	9039	7442
20°	8839	8679	8839	7458
25°	8443	8338	8443	7300
30°	7932	8055	7932	6953
35°	7062	7697	7062	6572
40°	5874	7275	5874	6283
45°	5239	6782	5239	5952
50°	5553	6193	5553	5620
55°	5209	5560	5209	5427
60°	5349	4722	5349	4972
65°	4826	3903	4826	4364
70°	3321	3110	3321	3657
75°	2879	2298	2879	2753
80°	2275	1521	2275	1654
85°	1234	806	1234	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.4
10°-20°	253.1	4.0
20°-30°	391.2	6.2
30°-40°	467.0	7.4
40°-50°	469.7	7.4
50°-60°	408.7	6.5
60°-70°	289.8	4.6
70°-80°	153.3	2.4
80°-90°	40.4	0.6
90°-100°	282.1	4.5
100°-110°	741.8	11.7
110°-120°	769.2	12.2
120°-130°	617.0	9.8
130°-140°	484.1	7.7
140°-150°	371.6	5.9
150°-160°	267.6	4.2
160°-170°	163.7	2.6
170°-180°	55.3	0.9
0°-30°	733.4	11.6
0°-40°	1200.3	19.0
0°-60°	2078.8	32.9
0°-90°	2562.3	40.6
90°-120°	1793.2	28.4
90°-150°	3265.8	51.7
90°-180°	3752.0	59.4
0°-180°	6314.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	987	987	987	987	987	
5°	992	1023	992	804	992	94
15°	947	1014	947	846	947	267
25°	834	945	834	828	834	383
35°	634	844	634	720	634	392
45°	409	695	409	610	409	328
55°	334	513	334	501	334	306
65°	232	309	232	346	232	221
75°	88	147	88	176	88	92
85°	15	37	15	32	15	20
90°	4	15	4	15	4	4
95°	37	170	37	170	37	41
105°	134	1162	134	1162	134	142
115°	237	1496	237	1496	237	234
125°	330	1191	330	1191	330	293
135°	394	924	394	924	394	304
145°	456	750	456	750	456	286
155°	516	646	516	646	516	237
165°	557	601	557	601	557	157
175°	579	583	579	583	579	55
180°	579	579	579	579	579	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	995.7	995.7	1001.4	1003.3	1003.3	1000.5	997.7	1000.5	1008.9	1011.7	1010.8
5°	992.0	999.6	1009.8	1011.7	1013.6	1012.6	1010.8	1012.6	1022.0	1023.9	1024.8
7.5°	984.5	998.6	1011.7	1014.5	1017.3	1014.5	1013.6	1015.4	1024.8	1026.7	1026.7
10°	975.2	994.8	1009.8	1011.7	1014.5	1011.7	1011.7	1015.4	1024.8	1026.7	1027.6
12.5°	962.1	989.2	1003.3	1005.2	1008.9	1008.0	1007.0	1010.8	1020.1	1022.0	1022.0
15°	947.2	978.9	992.0	993.9	1000.5	998.6	998.6	1002.4	1012.6	1015.4	1014.5
17.5°	926.6	965.8	980.8	983.6	988.3	987.3	988.3	992.0	1001.4	1003.3	1004.2
20°	903.3	948.1	965.8	968.7	973.3	973.3	973.3	978.0	987.3	991.1	991.1
22.5°	871.5	929.4	948.1	950.0	955.6	955.6	957.4	964.0	972.4	973.3	973.3
25°	834.2	908.9	924.8	930.4	936.0	938.8	941.6	945.3	948.1	947.2	948.1
27.5°	794.9	882.7	903.3	907.0	914.5	917.3	921.0	922.0	922.9	925.7	923.8
30°	751.0	846.3	877.1	880.9	893.0	894.9	891.1	893.0	897.7	899.5	901.4
32.5°	701.5	792.1	850.0	858.4	869.6	864.0	863.1	865.9	873.4	873.4	875.3
35°	634.3	750.1	824.8	832.3	840.7	834.2	837.9	838.8	843.5	846.3	845.4
37.5°	560.5	713.7	798.7	804.3	810.8	802.4	808.0	810.8	814.5	812.7	812.7
40°	495.1	656.7	767.8	771.6	777.2	770.6	776.2	778.1	780.0	778.1	777.2
42.5°	446.5	594.1	735.2	739.8	736.1	740.8	742.6	746.4	743.6	739.8	739.8
45°	409.2	577.3	699.7	705.3	699.7	707.1	709.9	709.9	701.5	699.7	698.7
47.5°	397.0	543.7	664.2	664.2	661.4	670.7	675.4	668.8	660.4	657.6	657.6
50°	396.1	506.3	615.6	611.9	624.9	636.1	631.5	624.9	618.4	608.1	608.1
52.5°	359.7	460.6	553.0	567.0	587.6	594.1	586.6	580.1	568.9	564.2	560.5
55°	333.5	412.9	496.0	524.1	545.5	554.0	539.9	533.4	516.6	513.8	511.9
57.5°	327.8	343.8	443.7	479.2	505.4	504.5	496.0	483.9	469.9	467.1	466.2
60°	300.7	248.4	387.7	429.7	456.8	454.0	446.5	435.3	422.3	420.4	418.5
62.5°	272.7	180.3	324.1	371.8	410.1	409.2	402.6	385.8	376.5	371.8	368.1
65°	231.6	151.3	230.7	309.2	364.4	366.2	352.2	340.1	329.7	324.1	323.2
67.5°	176.5	123.3	156.0	257.8	320.4	318.5	300.7	295.1	282.1	279.3	273.7
70°	130.8	82.2	108.3	209.2	277.4	272.7	258.7	252.2	240.0	233.5	229.8
72.5°	108.3	66.3	79.4	162.5	233.5	227.9	215.8	208.3	198.0	192.4	188.7
75°	87.8	70.0	60.7	120.5	189.6	185.9	174.7	167.2	158.8	151.3	152.2
77.5°	64.4	65.4	48.6	88.7	150.4	144.8	138.2	128.9	125.2	117.7	117.7
80°	48.6	51.4	36.4	60.7	108.3	108.3	102.7	96.2	89.7	85.9	85.9
82.5°	32.7	32.7	27.1	38.3	73.8	71.0	67.2	65.4	61.6	59.8	59.8
85°	14.9	18.7	16.8	23.4	40.2	42.0	42.0	40.2	39.2	37.4	38.3
87.5°	4.7	8.4	10.3	13.1	20.5	21.5	22.4	22.4	22.4	23.4	23.4
90°	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7	14.8	14.8
92.5°	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6	73.8	70.9
95°	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0	250.6	241.7
97.5°	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0	578.4	561.5
100°	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7	812.3	792.1
102.5°	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9	1012.0	994.7
105°	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4	1245.1	1235.9
107.5°	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7	1366.3	1368.6
110°	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5	1397.4	1407.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4	1377.6	1392.4
115°	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6	1310.4	1331.0
117.5°	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0	1217.6	1240.4
120°	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4	1155.0	1177.2
122.5°	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6	1092.4	1114.3
125°	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3	1009.7	1029.8
127.5°	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3	943.2	960.2
130°	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3	901.3	917.0
132.5°	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5	865.5	879.6
135°	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3	815.0	827.2
137.5°	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1	777.7	787.6
140°	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3	747.9	757.1
142.5°	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3	726.8	734.9
145°	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1	695.4	701.4
147.5°	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5	669.0	674.1
150°	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3	653.8	657.8
152.5°	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3	641.8	644.8
155°	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8	627.4	629.4
157.5°	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5	614.9	616.3
160°	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4	608.8	609.6
162.5°	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4	602.9	603.6
165°	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6	594.0	594.9
167.5°	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2	590.1	590.5
170°	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2	590.1	590.1
172.5°	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1	587.0	586.7
175°	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3	582.7	582.7
177.5°	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0	582.0	581.6
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1012.6	1009.8	1012.6	1010.8	1011.7	1008.9	1000.5	997.7	1000.5	1003.3	1003.3
5°	1024.8	1022.9	1024.8	1024.8	1023.9	1022.0	1012.6	1010.8	1012.6	1013.6	1011.7
7.5°	1028.5	1025.7	1028.5	1026.7	1026.7	1024.8	1015.4	1013.6	1014.5	1017.3	1014.5
10°	1028.5	1025.7	1028.5	1027.6	1026.7	1024.8	1015.4	1011.7	1011.7	1014.5	1011.7
12.5°	1023.9	1022.0	1023.9	1022.0	1022.0	1020.1	1010.8	1007.0	1008.0	1008.9	1005.2
15°	1016.4	1013.6	1016.4	1014.5	1015.4	1012.6	1002.4	998.6	998.6	1000.5	993.9
17.5°	1005.2	1001.4	1005.2	1004.2	1003.3	1001.4	992.0	988.3	987.3	988.3	983.6
20°	992.0	989.2	992.0	991.1	991.1	987.3	978.0	973.3	973.3	973.3	968.7
22.5°	971.5	968.7	971.5	973.3	973.3	972.4	964.0	957.4	955.6	955.6	950.0
25°	948.1	945.3	948.1	948.1	947.2	948.1	945.3	941.6	938.8	936.0	930.4
27.5°	925.7	923.8	925.7	923.8	925.7	922.9	922.0	921.0	917.3	914.5	907.0
30°	903.3	901.4	903.3	901.4	899.5	897.7	893.0	891.1	894.9	893.0	880.9
32.5°	875.3	873.4	875.3	875.3	873.4	873.4	865.9	863.1	864.0	869.6	858.4
35°	846.3	843.5	846.3	845.4	846.3	843.5	838.8	837.9	834.2	840.7	832.3
37.5°	812.7	809.9	812.7	812.7	812.7	814.5	810.8	808.0	802.4	810.8	804.3
40°	778.1	774.4	778.1	777.2	778.1	780.0	778.1	776.2	770.6	777.2	771.6
42.5°	738.9	738.0	738.9	739.8	739.8	743.6	746.4	742.6	740.8	736.1	739.8
45°	696.9	695.0	696.9	698.7	699.7	701.5	709.9	709.9	707.1	699.7	705.3
47.5°	652.0	647.4	652.0	657.6	657.6	660.4	668.8	675.4	670.7	661.4	664.2
50°	604.4	605.3	604.4	608.1	608.1	618.4	624.9	631.5	636.1	624.9	611.9
52.5°	557.7	556.8	557.7	560.5	564.2	568.9	580.1	586.6	594.1	587.6	567.0
55°	511.0	512.9	511.0	511.9	513.8	516.6	533.4	539.9	554.0	545.5	524.1
57.5°	464.3	461.5	464.3	466.2	467.1	469.9	483.9	496.0	504.5	505.4	479.2
60°	410.1	406.4	410.1	418.5	420.4	422.3	435.3	446.5	454.0	456.8	429.7
62.5°	362.5	355.9	362.5	368.1	371.8	376.5	385.8	402.6	409.2	410.1	371.8
65°	312.0	309.2	312.0	323.2	324.1	329.7	340.1	352.2	366.2	364.4	309.2
67.5°	266.2	266.2	266.2	273.7	279.3	282.1	295.1	300.7	318.5	320.4	257.8
70°	224.2	223.2	224.2	229.8	233.5	240.0	252.2	258.7	272.7	277.4	209.2
72.5°	184.0	183.1	184.0	188.7	192.4	198.0	208.3	215.8	227.9	233.5	162.5
75°	148.5	146.6	148.5	152.2	151.3	158.8	167.2	174.7	185.9	189.6	120.5
77.5°	113.9	113.9	113.9	117.7	117.7	125.2	128.9	138.2	144.8	150.4	88.7
80°	85.0	84.1	85.0	85.9	85.9	89.7	96.2	102.7	108.3	108.3	60.7
82.5°	59.8	57.9	59.8	59.8	59.8	61.6	65.4	67.2	71.0	73.8	38.3
85°	37.4	37.4	37.4	38.3	37.4	39.2	40.2	42.0	42.0	40.2	23.4
87.5°	24.3	23.4	24.3	23.4	23.4	22.4	22.4	22.4	21.5	20.5	13.1
90°	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4	17.1	10.8
92.5°	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0	105.4	75.0
95°	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4	259.4	146.1
97.5°	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3	349.4	160.5
100°	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7	382.2	172.5
102.5°	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7	397.2	184.6
105°	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8	408.3	202.4
107.5°	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4	410.4	228.8
110°	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5	407.2	243.6



TEST NUMBER: P935186

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0	407.4	261.4
115°	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1	411.1	288.2
117.5°	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2	418.8	314.3
120°	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5	425.0	329.4
122.5°	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5	433.9	347.4
125°	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0	446.0	370.2
127.5°	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5	458.0	392.4
130°	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5	466.8	407.1
132.5°	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0	473.9	419.2
135°	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5	481.8	433.2
137.5°	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8	493.3	451.0
140°	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4	500.5	463.1
142.5°	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4	506.5	472.0
145°	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5	514.3	485.6
147.5°	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2	525.7	502.7
150°	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3	531.6	511.6
152.5°	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5	535.5	517.4
155°	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4	544.1	530.3
157.5°	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2	552.6	543.1
160°	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5	556.5	548.9
162.5°	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9	560.6	555.2
165°	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8	566.6	564.0
167.5°	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9	571.2	569.2
170°	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3	575.1	575.0
172.5°	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1	577.7	578.9
177.5°	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7	578.0	578.9
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935186

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	1001.4	995.7	995.7	986.4	982.7	979.9	975.2	961.2	957.4	953.7	959.3
5°	1009.8	999.6	992.0	975.2	961.2	955.6	937.8	904.2	881.8	865.0	855.6
7.5°	1011.7	998.6	984.5	958.4	924.8	909.8	855.6	794.0	777.2	762.2	752.9
10°	1009.8	994.8	975.2	936.0	856.6	830.4	776.2	736.1	725.8	723.0	725.8
12.5°	1003.3	989.2	962.1	896.7	785.6	767.8	736.1	712.7	710.9	715.5	740.8
15°	992.0	978.9	947.2	844.4	746.4	733.3	710.9	702.5	712.7	745.4	821.1
17.5°	980.8	965.8	926.6	793.1	716.5	707.1	691.3	708.1	766.0	809.9	835.1
20°	965.8	948.1	903.3	755.7	695.0	686.6	679.1	754.8	798.7	814.5	828.6
22.5°	948.1	929.4	871.5	729.5	672.6	666.0	670.7	780.9	798.7	809.9	822.0
25°	924.8	908.9	834.2	709.0	654.8	647.4	665.1	778.1	788.4	791.2	815.5
27.5°	903.3	882.7	794.9	690.3	633.3	630.5	669.8	766.0	773.4	776.2	802.4
30°	877.1	846.3	751.0	670.7	610.9	610.0	670.7	751.0	749.2	756.6	782.8
32.5°	850.0	792.1	701.5	646.4	589.4	588.5	664.2	728.6	726.7	737.0	756.6
35°	824.8	750.1	634.3	618.4	562.4	563.3	648.3	702.5	703.4	712.7	724.9
37.5°	798.7	713.7	560.5	587.6	536.2	536.2	626.8	678.2	676.3	679.1	695.9
40°	767.8	656.7	495.1	547.4	511.9	509.1	600.7	652.0	645.5	644.6	667.9
42.5°	735.2	594.1	446.5	494.2	483.9	480.2	568.9	620.3	608.1	610.9	640.8
45°	699.7	577.3	409.2	417.6	455.0	452.1	534.3	583.8	575.4	582.9	613.7
47.5°	664.2	543.7	397.0	346.6	424.1	423.2	496.0	548.4	543.7	551.2	583.8
50°	615.6	506.3	396.1	297.0	389.6	393.3	450.3	513.8	513.8	520.3	554.9
52.5°	553.0	460.6	359.7	269.0	349.4	360.6	410.1	483.9	485.8	492.3	523.1
55°	496.0	412.9	333.5	247.5	301.7	326.0	370.9	453.1	456.8	463.4	491.4
57.5°	443.7	343.8	327.8	222.3	257.8	281.1	336.3	423.2	425.1	430.7	457.8
60°	387.7	248.4	300.7	195.2	219.5	237.2	304.5	387.7	394.2	398.0	421.3
62.5°	324.1	180.3	272.7	176.5	200.8	204.5	278.3	354.1	362.5	365.3	379.3
65°	230.7	151.3	231.6	160.6	181.2	182.1	250.3	319.4	326.9	331.6	341.9
67.5°	156.0	123.3	176.5	145.7	166.3	167.2	223.2	279.3	289.5	293.3	299.8
70°	108.3	82.2	130.8	129.8	149.4	151.3	194.3	242.8	252.2	255.0	258.7
72.5°	79.4	66.3	108.3	116.8	131.7	133.6	164.4	201.7	211.1	213.9	215.8
75°	60.7	70.0	87.8	101.8	112.1	113.0	134.5	164.4	170.9	172.8	173.7
77.5°	48.6	65.4	64.4	82.2	91.5	89.7	105.5	127.0	132.6	132.6	132.6
80°	36.4	51.4	48.6	58.8	67.2	65.4	75.7	90.6	92.5	94.3	93.4
82.5°	27.1	32.7	32.7	37.4	44.8	43.0	50.4	58.8	58.8	58.8	60.7
85°	16.8	18.7	14.9	19.6	25.2	24.3	28.0	31.8	32.7	32.7	30.8
87.5°	10.3	8.4	4.7	7.5	11.2	11.2	13.1	14.0	13.1	13.1	13.1
90°	10.1	7.0	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7
92.5°	68.4	41.9	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6
95°	134.0	85.6	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0
97.5°	149.8	107.1	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0
100°	162.8	124.1	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7
102.5°	175.5	139.4	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9
105°	194.7	164.2	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4
107.5°	221.7	193.2	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7
110°	237.1	211.5	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5



TEST NUMBER: P935186

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	255.3	230.8	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4
115°	282.5	259.9	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6
117.5°	309.2	288.6	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0
120°	324.6	305.2	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4
122.5°	342.5	323.0	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6
125°	365.8	348.0	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3
127.5°	387.9	369.9	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3
130°	402.3	382.9	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3
132.5°	414.3	395.0	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5
135°	428.8	411.1	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3
137.5°	446.6	429.3	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1
140°	459.1	443.0	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3
142.5°	468.3	453.5	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3
145°	482.3	469.4	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1
147.5°	499.5	487.0	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5
150°	508.7	497.4	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3
152.5°	515.3	506.6	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3
155°	528.7	522.3	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8
157.5°	541.5	535.4	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5
160°	547.7	542.9	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4
162.5°	554.2	550.6	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4
165°	563.2	559.9	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6
167.5°	568.8	567.2	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2
170°	574.6	573.0	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2
172.5°	575.3	575.0	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1
175°	578.9	578.9	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3
177.5°	578.9	578.9	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935186

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3	987.3
2.5°	952.8	950.0	953.7	943.4	953.7	950.0	952.8	959.3	953.7	957.4	961.2
5°	836.0	831.4	816.4	804.3	816.4	831.4	836.0	855.6	865.0	881.8	904.2
7.5°	747.3	743.6	739.8	732.3	739.8	743.6	747.3	752.9	762.2	777.2	794.0
10°	727.7	728.6	734.2	733.3	734.2	728.6	727.7	725.8	723.0	725.8	736.1
12.5°	778.1	786.5	817.3	815.5	817.3	786.5	778.1	740.8	715.5	710.9	712.7
15°	836.0	838.8	845.4	846.3	845.4	838.8	836.0	821.1	745.4	712.7	702.5
17.5°	841.6	842.6	847.2	847.2	847.2	842.6	841.6	835.1	809.9	766.0	708.1
20°	837.0	838.8	848.2	850.0	848.2	838.8	837.0	828.6	814.5	798.7	754.8
22.5°	835.1	838.8	846.3	845.4	846.3	838.8	835.1	822.0	809.9	798.7	780.9
25°	825.7	825.7	826.7	827.6	826.7	825.7	825.7	815.5	791.2	788.4	778.1
27.5°	806.1	808.0	813.6	812.7	813.6	808.0	806.1	802.4	776.2	773.4	766.0
30°	788.4	786.5	781.9	778.1	781.9	786.5	788.4	782.8	756.6	749.2	751.0
32.5°	758.5	753.8	749.2	746.4	749.2	753.8	758.5	756.6	737.0	726.7	728.6
35°	723.0	723.9	723.0	720.2	723.0	723.9	723.0	724.9	712.7	703.4	702.5
37.5°	697.8	699.7	698.7	695.0	698.7	699.7	697.8	695.9	679.1	676.3	678.2
40°	671.6	672.6	671.6	668.8	671.6	672.6	671.6	667.9	644.6	645.5	652.0
42.5°	646.4	645.5	642.7	640.8	642.7	645.5	646.4	640.8	610.9	608.1	620.3
45°	617.5	618.4	612.8	610.0	612.8	618.4	617.5	613.7	582.9	575.4	583.8
47.5°	588.5	588.5	583.8	581.0	583.8	588.5	588.5	583.8	551.2	543.7	548.4
50°	557.7	556.8	550.2	549.3	550.2	556.8	557.7	554.9	520.3	513.8	513.8
52.5°	522.2	522.2	523.1	525.0	523.1	522.2	522.2	523.1	492.3	485.8	483.9
55°	491.4	492.3	498.8	500.7	498.8	492.3	491.4	491.4	463.4	456.8	453.1
57.5°	459.6	459.6	464.3	464.3	464.3	459.6	459.6	457.8	430.7	425.1	423.2
60°	423.2	425.1	428.8	427.9	428.8	425.1	423.2	421.3	398.0	394.2	387.7
62.5°	384.9	386.8	387.7	385.8	387.7	386.8	384.9	379.3	365.3	362.5	354.1
65°	344.7	346.6	347.5	345.7	347.5	346.6	344.7	341.9	331.6	326.9	319.4
67.5°	303.6	302.6	301.7	305.4	301.7	302.6	303.6	299.8	293.3	289.5	279.3
70°	261.5	261.5	260.6	262.5	260.6	261.5	261.5	258.7	255.0	252.2	242.8
72.5°	216.7	215.8	219.5	216.7	219.5	215.8	216.7	215.8	213.9	211.1	201.7
75°	172.8	174.7	172.8	175.6	172.8	174.7	172.8	173.7	172.8	170.9	164.4
77.5°	131.7	133.6	131.7	131.7	131.7	133.6	131.7	132.6	132.6	132.6	127.0
80°	93.4	92.5	92.5	91.5	92.5	92.5	93.4	93.4	94.3	92.5	90.6
82.5°	59.8	58.8	58.8	60.7	58.8	58.8	59.8	60.7	58.8	58.8	58.8
85°	32.7	33.6	31.8	31.8	31.8	33.6	32.7	30.8	32.7	32.7	31.8
87.5°	12.1	11.2	11.2	11.2	11.2	11.2	12.1	13.1	13.1	13.1	14.0
90°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4
92.5°	73.8	70.9	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0
95°	250.6	241.7	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4
97.5°	578.4	561.5	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3
100°	812.3	792.1	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7
102.5°	1012.0	994.7	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7
105°	1245.1	1235.9	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8
107.5°	1366.3	1368.6	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4
110°	1397.4	1407.1	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1377.6	1392.4	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0
115°	1310.4	1331.0	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1
117.5°	1217.6	1240.4	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2
120°	1155.0	1177.2	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5
122.5°	1092.4	1114.3	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5
125°	1009.7	1029.8	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0
127.5°	943.2	960.2	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5
130°	901.3	917.0	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5
132.5°	865.5	879.6	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0
135°	815.0	827.2	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5
137.5°	777.7	787.6	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8
140°	747.9	757.1	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4
142.5°	726.8	734.9	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4
145°	695.4	701.4	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5
147.5°	669.0	674.1	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2
150°	653.8	657.8	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3
152.5°	641.8	644.8	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5
155°	627.4	629.4	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4
157.5°	614.9	616.3	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2
160°	608.8	609.6	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5
162.5°	602.9	603.6	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9
165°	594.0	594.9	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8
167.5°	590.1	590.5	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9
170°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3
172.5°	587.0	586.7	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1
177.5°	582.0	581.6	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	987.3	987.3	987.3	987.3	987.3
2.5°	975.2	979.9	982.7	986.4	995.7
5°	937.8	955.6	961.2	975.2	992.0
7.5°	855.6	909.8	924.8	958.4	984.5
10°	776.2	830.4	856.6	936.0	975.2
12.5°	736.1	767.8	785.6	896.7	962.1
15°	710.9	733.3	746.4	844.4	947.2
17.5°	691.3	707.1	716.5	793.1	926.6
20°	679.1	686.6	695.0	755.7	903.3
22.5°	670.7	666.0	672.6	729.5	871.5
25°	665.1	647.4	654.8	709.0	834.2
27.5°	669.8	630.5	633.3	690.3	794.9
30°	670.7	610.0	610.9	670.7	751.0
32.5°	664.2	588.5	589.4	646.4	701.5
35°	648.3	563.3	562.4	618.4	634.3
37.5°	626.8	536.2	536.2	587.6	560.5
40°	600.7	509.1	511.9	547.4	495.1
42.5°	568.9	480.2	483.9	494.2	446.5
45°	534.3	452.1	455.0	417.6	409.2
47.5°	496.0	423.2	424.1	346.6	397.0
50°	450.3	393.3	389.6	297.0	396.1
52.5°	410.1	360.6	349.4	269.0	359.7
55°	370.9	326.0	301.7	247.5	333.5
57.5°	336.3	281.1	257.8	222.3	327.8
60°	304.5	237.2	219.5	195.2	300.7
62.5°	278.3	204.5	200.8	176.5	272.7
65°	250.3	182.1	181.2	160.6	231.6
67.5°	223.2	167.2	166.3	145.7	176.5
70°	194.3	151.3	149.4	129.8	130.8
72.5°	164.4	133.6	131.7	116.8	108.3
75°	134.5	113.0	112.1	101.8	87.8
77.5°	105.5	89.7	91.5	82.2	64.4
80°	75.7	65.4	67.2	58.8	48.6
82.5°	50.4	43.0	44.8	37.4	32.7
85°	28.0	24.3	25.2	19.6	14.9
87.5°	13.1	11.2	11.2	7.5	4.7
90°	17.1	10.8	10.1	7.0	3.9
92.5°	105.4	75.0	68.4	41.9	15.5
95°	259.4	146.1	134.0	85.6	37.3
97.5°	349.4	160.5	149.8	107.1	64.4
100°	382.2	172.5	162.8	124.1	85.5
102.5°	397.2	184.6	175.5	139.4	103.3
105°	408.3	202.4	194.7	164.2	133.7
107.5°	410.4	228.8	221.7	193.2	164.8
110°	407.2	243.6	237.1	211.5	185.7



TEST NUMBER: P935186

CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	407.4	261.4	255.3	230.8	206.3
115°	411.1	288.2	282.5	259.9	237.3
117.5°	418.8	314.3	309.2	288.6	268.1
120°	425.0	329.4	324.6	305.2	285.9
122.5°	433.9	347.4	342.5	323.0	303.5
125°	446.0	370.2	365.8	348.0	330.3
127.5°	458.0	392.4	387.9	369.9	351.9
130°	466.8	407.1	402.3	382.9	363.6
132.5°	473.9	419.2	414.3	395.0	375.7
135°	481.8	433.2	428.8	411.1	393.6
137.5°	493.3	451.0	446.6	429.3	411.8
140°	500.5	463.1	459.1	443.0	426.9
142.5°	506.5	472.0	468.3	453.5	438.6
145°	514.3	485.6	482.3	469.4	456.4
147.5°	525.7	502.7	499.5	487.0	474.4
150°	531.6	511.6	508.7	497.4	486.0
152.5°	535.5	517.4	515.3	506.6	498.0
155°	544.1	530.3	528.7	522.3	515.9
157.5°	552.6	543.1	541.5	535.4	529.1
160°	556.5	548.9	547.7	542.9	538.1
162.5°	560.6	555.2	554.2	550.6	547.0
165°	566.6	564.0	563.2	559.9	556.7
167.5°	571.2	569.2	568.8	567.2	565.6
170°	575.1	575.0	574.6	573.0	571.5
172.5°	575.3	575.3	575.3	575.0	574.6
175°	577.7	578.9	578.9	578.9	578.9
177.5°	578.0	578.9	578.9	578.9	578.9
180°	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935186
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.55	12.33	12.58	13.37	14.77	14.35	15.13	15.38	16.17	17.57
	3H	12.02	12.72	13.07	13.77	15.19	15.68	16.38	16.72	17.43	18.85
	4H	12.21	12.87	13.26	13.92	15.35	16.11	16.78	17.17	17.83	19.25
	6H	12.32	12.94	13.39	13.99	15.43	16.38	17.00	17.45	18.05	19.49
	8H	12.32	12.90	13.39	13.98	15.41	16.45	17.03	17.52	18.11	19.54
	12H	12.29	12.84	13.37	13.91	15.37	16.48	17.04	17.56	18.10	19.56
4H	2H	12.57	13.23	13.63	14.28	15.71	14.75	15.41	15.81	16.47	17.89
	3H	13.58	14.14	14.65	15.22	16.66	16.24	16.79	17.31	17.87	19.31
	4H	13.86	14.36	14.93	15.44	16.90	16.76	17.26	17.83	18.33	19.79
	6H	13.98	14.41	15.06	15.51	16.96	17.11	17.54	18.19	18.64	20.09
	8H	13.98	14.39	15.07	15.47	16.95	17.21	17.62	18.29	18.70	20.17
	12H	13.95	14.31	15.05	15.41	16.89	17.26	17.62	18.36	18.72	20.20
8H	4H	14.30	14.71	15.39	15.79	17.26	16.88	17.28	17.96	18.37	19.84
	6H	14.56	14.89	15.67	16.02	17.49	17.30	17.64	18.41	18.76	20.23
	8H	14.60	14.89	15.71	16.00	17.49	17.45	17.74	18.56	18.85	20.34
	12H	14.58	14.84	15.70	15.94	17.47	17.54	17.79	18.65	18.90	20.43
12H	4H	14.30	14.67	15.40	15.77	17.24	16.84	17.20	17.94	18.30	19.78
	6H	14.62	14.91	15.73	16.02	17.51	17.30	17.59	18.41	18.70	20.19
	8H	14.68	14.94	15.80	16.04	17.57	17.45	17.71	18.57	18.81	20.34