

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: P935932

Luminaire Tested: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935932
REPORT IS A COMBINATION OF REPORTS P933774 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

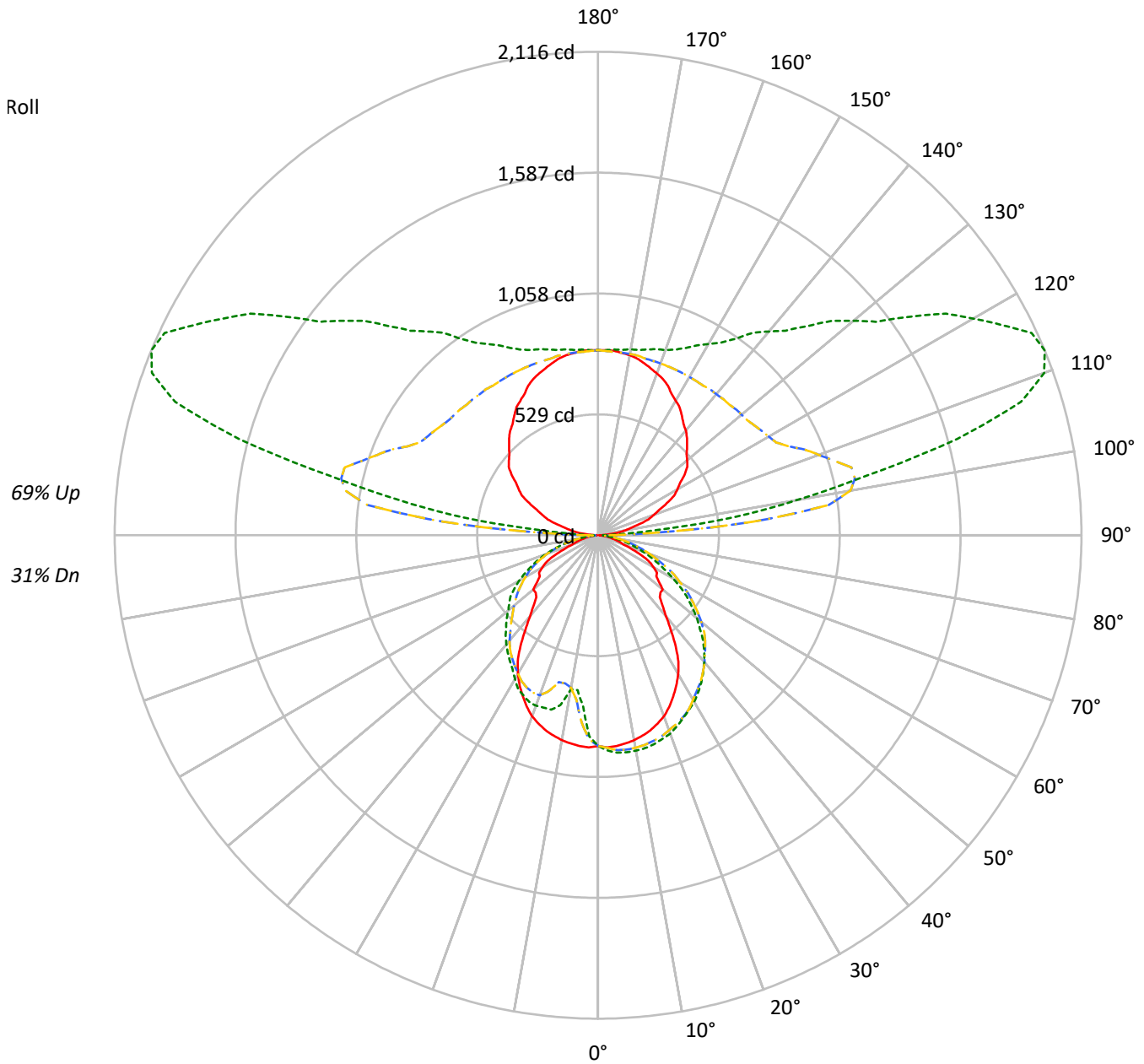
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7646.9 lumens
Efficiency: N/A
Efficacy: 120.2 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: Semi-Indirect

Input Watts (W): 63.6
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: P935932
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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8554	8554	8554	8554
5°	8608	8636	8608	6790
10°	8541	8507	8541	6081
15°	8439	8322	8439	6949
20°	8252	8103	8252	6963
25°	7882	7785	7882	6815
30°	7406	7520	7406	6492
35°	6593	7186	6593	6135
40°	5485	6792	5485	5867
45°	4891	6332	4891	5557
50°	5184	5783	5184	5247
55°	4864	5190	4864	5068
60°	4995	4408	4995	4642
65°	4508	3643	4508	4073
70°	3100	2903	3100	3413
75°	2689	2146	2689	2569
80°	2120	1419	2120	1546
85°	1159	752	1159	638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7510 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.1
10°-20°	236.3	3.1
20°-30°	365.2	4.8
30°-40°	436.0	5.7
40°-50°	438.6	5.7
50°-60°	381.6	5.0
60°-70°	270.6	3.5
70°-80°	143.1	1.9
80°-90°	38.7	0.5
90°-100°	395.0	5.2
100°-110°	1038.6	13.6
110°-120°	1076.9	14.1
120°-130°	863.8	11.3
130°-140°	677.8	8.9
140°-150°	520.2	6.8
150°-160°	374.6	4.9
160°-170°	229.2	3.0
170°-180°	77.4	1.0
0°-30°	684.7	9.0
0°-40°	1120.7	14.7
0°-60°	1940.9	25.4
0°-90°	2393.3	31.3
90°-120°	2510.5	32.8
90°-150°	4572.2	59.8
90°-180°	5254.0	68.7
0°-180°	7646.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	922	922	922	922	922	
5°	926	955	926	751	926	88
15°	884	946	884	790	884	249
25°	779	883	779	773	779	358
35°	592	788	592	672	592	366
45°	382	649	382	570	382	306
55°	311	479	311	468	311	286
65°	216	289	216	323	216	207
75°	82	137	82	164	82	86
85°	14	35	14	30	14	19
90°	5	21	5	21	5	5
95°	52	239	52	239	52	58
105°	187	1626	187	1626	187	198
115°	332	2094	332	2094	332	328
125°	462	1668	462	1668	462	410
135°	551	1294	551	1294	551	426
145°	639	1050	639	1050	639	400
155°	722	904	722	904	722	332
165°	779	842	779	842	779	220
175°	810	816	810	816	810	77
180°	810	810	810	810	810	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	929.7	929.7	935.0	936.7	936.7	934.1	931.5	934.1	942.0	944.6	943.7
5°	926.2	933.3	942.8	944.6	946.3	945.5	943.7	945.5	954.2	955.9	956.8
7.5°	919.2	932.4	944.6	947.2	949.8	947.2	946.3	948.1	956.8	958.5	958.5
10°	910.5	928.8	942.8	944.6	947.2	944.6	944.6	948.1	956.8	958.5	959.4
12.5°	898.3	923.6	936.7	938.5	942.0	941.1	940.2	943.7	952.4	954.2	954.2
15°	884.3	914.0	926.2	927.9	934.1	932.4	932.4	935.9	945.5	948.1	947.2
17.5°	865.1	901.8	915.7	918.3	922.7	921.8	922.7	926.2	935.0	936.7	937.6
20°	843.3	885.2	901.8	904.4	908.7	908.7	908.7	913.1	921.8	925.3	925.3
22.5°	813.7	867.8	885.2	886.9	892.2	892.2	893.9	900.0	907.9	908.7	908.7
25°	778.8	848.6	863.4	868.6	873.9	876.5	879.1	882.6	885.2	884.3	885.2
27.5°	742.2	824.2	843.3	846.8	853.8	856.4	859.9	860.8	861.7	864.3	862.5
30°	701.2	790.2	818.9	822.4	833.8	835.5	832.0	833.8	838.1	839.9	841.6
32.5°	655.0	739.6	793.6	801.5	812.0	806.7	805.8	808.5	815.4	815.4	817.2
35°	592.2	700.3	770.1	777.1	784.9	778.8	782.3	783.2	787.5	790.2	789.3
37.5°	523.3	666.3	745.7	750.9	757.0	749.2	754.4	757.0	760.5	758.8	758.8
40°	462.3	613.1	716.9	720.4	725.6	719.5	724.7	726.5	728.2	726.5	725.6
42.5°	416.9	554.7	686.4	690.7	687.2	691.6	693.4	696.8	694.2	690.7	690.7
45°	382.0	539.0	653.2	658.5	653.2	660.2	662.8	662.8	655.0	653.2	652.4
47.5°	370.7	507.6	620.1	620.1	617.5	626.2	630.6	624.5	616.6	614.0	614.0
50°	369.8	472.7	574.8	571.3	583.5	593.9	589.6	583.5	577.4	567.8	567.8
52.5°	335.8	430.0	516.3	529.4	548.6	554.7	547.7	541.6	531.2	526.8	523.3
55°	311.4	385.5	463.1	489.3	509.4	517.2	504.1	498.0	482.3	479.7	478.0
57.5°	306.1	321.0	414.3	447.4	471.9	471.0	463.1	451.8	438.7	436.1	435.2
60°	280.8	232.0	362.0	401.2	426.5	423.9	416.9	406.5	394.2	392.5	390.8
62.5°	254.6	168.3	302.6	347.2	382.9	382.0	375.9	360.2	351.5	347.2	343.7
65°	216.3	141.3	215.4	288.6	340.2	341.9	328.8	317.5	307.8	302.6	301.7
67.5°	164.8	115.1	145.6	240.7	299.1	297.4	280.8	275.6	263.4	260.7	255.5
70°	122.1	76.7	101.2	195.3	259.0	254.6	241.6	235.4	224.1	218.0	214.5
72.5°	101.2	61.9	74.1	151.7	218.0	212.8	201.4	194.5	184.9	179.6	176.2
75°	82.0	65.4	56.7	112.5	177.0	173.5	163.1	156.1	148.2	141.3	142.1
77.5°	60.2	61.0	45.3	82.8	140.4	135.2	129.1	120.3	116.9	109.9	109.9
80°	45.3	48.0	34.0	56.7	101.2	101.2	95.9	89.8	83.7	80.2	80.2
82.5°	30.5	30.5	25.3	35.8	68.9	66.3	62.8	61.0	57.6	55.8	55.8
85°	14.0	17.4	15.7	21.8	37.5	39.2	39.2	37.5	36.6	34.9	35.8
87.5°	4.4	7.8	9.6	12.2	19.2	20.1	20.9	20.9	20.9	21.8	21.8
90°	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6	20.7	20.7
92.5°	21.7	58.7	95.7	105.0	147.5	204.3	232.7	204.0	146.5	103.3	99.2
95°	52.2	119.9	187.6	204.5	363.1	574.7	680.4	607.2	460.7	350.8	338.3
97.5°	90.3	150.0	209.7	224.6	489.1	841.9	1018.2	971.9	879.3	809.9	786.1
100°	119.6	173.8	227.9	241.5	535.0	926.4	1122.0	1125.4	1132.2	1137.3	1109.1
102.5°	144.7	195.2	245.7	258.4	556.1	953.0	1151.4	1210.4	1328.4	1416.9	1392.7
105°	187.1	230.0	272.7	283.4	571.6	955.9	1148.1	1280.3	1544.8	1743.2	1730.2
107.5°	230.7	270.5	310.4	320.4	574.6	913.5	1082.9	1267.3	1636.2	1912.9	1916.0
110°	260.0	296.0	332.1	341.1	570.2	875.7	1028.5	1234.7	1647.1	1956.4	1969.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	288.8	323.2	357.5	366.1	570.4	842.8	979.0	1190.1	1612.1	1928.7	1949.4
115°	332.3	364.0	395.6	403.6	575.6	805.1	919.7	1123.0	1529.6	1834.6	1863.4
117.5°	375.3	404.1	432.9	440.0	586.4	781.4	878.9	1062.4	1429.4	1704.6	1736.6
120°	400.3	427.4	454.4	461.2	595.0	773.4	862.6	1030.2	1365.5	1617.0	1648.1
122.5°	424.8	452.1	479.4	486.2	607.5	769.3	850.1	1001.1	1303.0	1529.5	1560.1
125°	462.4	487.2	512.1	518.3	624.4	765.8	836.5	964.7	1221.2	1413.6	1441.8
127.5°	492.8	517.9	543.0	549.3	641.2	763.8	825.1	935.3	1155.4	1320.6	1344.4
130°	509.1	536.1	563.2	570.0	653.6	765.0	820.8	918.8	1114.8	1261.8	1283.8
132.5°	525.9	553.0	580.1	586.9	663.5	765.8	816.9	904.6	1080.2	1211.8	1231.5
135°	551.0	575.6	600.2	606.4	674.4	765.0	810.4	883.9	1030.8	1141.1	1158.1
137.5°	576.5	600.9	625.3	631.4	690.7	769.8	809.3	871.4	995.7	1088.9	1102.8
140°	597.8	620.3	642.8	648.4	700.8	770.6	805.5	859.1	966.5	1047.0	1060.0
142.5°	614.1	634.8	655.6	660.8	709.1	773.3	805.5	852.7	946.9	1017.7	1028.8
145°	639.1	657.3	675.3	679.8	720.0	773.4	800.1	838.6	915.7	973.5	982.0
147.5°	664.1	681.8	699.4	703.8	735.9	778.7	800.1	830.4	891.0	936.6	943.5
150°	680.4	696.4	712.3	716.3	744.2	781.4	800.1	825.7	876.9	915.4	921.0
152.5°	697.3	709.4	721.4	724.5	749.7	783.3	800.1	822.0	865.8	898.5	902.8
155°	722.3	731.3	740.2	742.4	761.6	787.3	800.1	817.5	852.3	878.4	881.3
157.5°	740.8	749.5	758.1	760.3	773.6	791.3	800.1	813.6	840.6	861.0	863.0
160°	753.3	760.1	766.9	768.5	779.1	793.1	800.1	811.7	834.9	852.2	853.4
162.5°	765.8	770.9	775.9	777.2	784.8	795.0	800.1	809.9	829.5	844.1	845.2
165°	779.4	784.0	788.6	789.7	793.2	797.8	800.1	807.1	821.1	831.6	832.7
167.5°	791.9	794.1	796.3	796.8	799.7	803.6	805.5	810.1	819.3	826.2	826.7
170°	800.1	802.3	804.5	805.0	805.1	805.4	805.5	810.1	819.3	826.2	826.2
172.5°	804.5	804.9	805.4	805.5	805.5	805.5	805.5	809.2	816.4	821.8	821.4
175°	810.4	810.4	810.4	810.4	808.7	806.5	805.5	807.8	812.4	815.9	815.9
177.5°	810.4	810.4	810.4	810.4	809.2	807.5	806.6	808.5	812.0	814.7	814.2
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	945.5	942.8	945.5	943.7	944.6	942.0	934.1	931.5	934.1	936.7	936.7
5°	956.8	955.1	956.8	956.8	955.9	954.2	945.5	943.7	945.5	946.3	944.6
7.5°	960.3	957.7	960.3	958.5	958.5	956.8	948.1	946.3	947.2	949.8	947.2
10°	960.3	957.7	960.3	959.4	958.5	956.8	948.1	944.6	944.6	947.2	944.6
12.5°	955.9	954.2	955.9	954.2	954.2	952.4	943.7	940.2	941.1	942.0	938.5
15°	948.9	946.3	948.9	947.2	948.1	945.5	935.9	932.4	932.4	934.1	927.9
17.5°	938.5	935.0	938.5	937.6	936.7	935.0	926.2	922.7	921.8	922.7	918.3
20°	926.2	923.6	926.2	925.3	925.3	921.8	913.1	908.7	908.7	908.7	904.4
22.5°	907.0	904.4	907.0	908.7	908.7	907.9	900.0	893.9	892.2	892.2	886.9
25°	885.2	882.6	885.2	885.2	884.3	885.2	882.6	879.1	876.5	873.9	868.6
27.5°	864.3	862.5	864.3	862.5	864.3	861.7	860.8	859.9	856.4	853.8	846.8
30°	843.3	841.6	843.3	841.6	839.9	838.1	833.8	832.0	835.5	833.8	822.4
32.5°	817.2	815.4	817.2	817.2	815.4	815.4	808.5	805.8	806.7	812.0	801.5
35°	790.2	787.5	790.2	789.3	790.2	787.5	783.2	782.3	778.8	784.9	777.1
37.5°	758.8	756.1	758.8	758.8	758.8	760.5	757.0	754.4	749.2	757.0	750.9
40°	726.5	723.0	726.5	725.6	726.5	728.2	726.5	724.7	719.5	725.6	720.4
42.5°	689.9	689.0	689.9	690.7	690.7	694.2	696.8	693.4	691.6	687.2	690.7
45°	650.6	648.9	650.6	652.4	653.2	655.0	662.8	662.8	660.2	653.2	658.5
47.5°	608.8	604.4	608.8	614.0	614.0	616.6	624.5	630.6	626.2	617.5	620.1
50°	564.3	565.2	564.3	567.8	567.8	577.4	583.5	589.6	593.9	583.5	571.3
52.5°	520.7	519.8	520.7	523.3	526.8	531.2	541.6	547.7	554.7	548.6	529.4
55°	477.1	478.8	477.1	478.0	479.7	482.3	498.0	504.1	517.2	509.4	489.3
57.5°	433.5	430.9	433.5	435.2	436.1	438.7	451.8	463.1	471.0	471.9	447.4
60°	382.9	379.4	382.9	390.8	392.5	394.2	406.5	416.9	423.9	426.5	401.2
62.5°	338.4	332.3	338.4	343.7	347.2	351.5	360.2	375.9	382.0	382.9	347.2
65°	291.3	288.6	291.3	301.7	302.6	307.8	317.5	328.8	341.9	340.2	288.6
67.5°	248.5	248.5	248.5	255.5	260.7	263.4	275.6	280.8	297.4	299.1	240.7
70°	209.3	208.4	209.3	214.5	218.0	224.1	235.4	241.6	254.6	259.0	195.3
72.5°	171.8	170.9	171.8	176.2	179.6	184.9	194.5	201.4	212.8	218.0	151.7
75°	138.7	136.9	138.7	142.1	141.3	148.2	156.1	163.1	173.5	177.0	112.5
77.5°	106.4	106.4	106.4	109.9	109.9	116.9	120.3	129.1	135.2	140.4	82.8
80°	79.4	78.5	79.4	80.2	80.2	83.7	89.8	95.9	101.2	101.2	56.7
82.5°	55.8	54.1	55.8	55.8	55.8	57.6	61.0	62.8	66.3	68.9	35.8
85°	34.9	34.9	34.9	35.8	34.9	36.6	37.5	39.2	39.2	37.5	21.8
87.5°	22.7	21.8	22.7	21.8	21.8	20.9	20.9	20.9	20.1	19.2	12.2
90°	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6	24.0	15.3
92.5°	82.8	66.4	82.8	99.2	103.3	146.5	204.0	232.7	204.3	147.5	105.0
95°	288.6	238.8	288.6	338.3	350.8	460.7	607.2	680.4	574.7	363.1	204.5
97.5°	691.4	596.6	691.4	786.1	809.9	879.3	971.9	1018.2	841.9	489.1	224.6
100°	996.2	883.3	996.2	1109.1	1137.3	1132.2	1125.4	1122.0	926.4	535.0	241.5
102.5°	1296.0	1199.3	1296.0	1392.7	1416.9	1328.4	1210.4	1151.4	953.0	556.1	258.4
105°	1678.2	1626.3	1678.2	1730.2	1743.2	1544.8	1280.3	1148.1	955.9	571.6	283.4
107.5°	1928.6	1941.1	1928.6	1916.0	1912.9	1636.2	1267.3	1082.9	913.5	574.6	320.4
110°	2024.1	2078.2	2024.1	1969.9	1956.4	1647.1	1234.7	1028.5	875.7	570.2	341.1



TEST NUMBER: P935932

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2032.6	2115.7	2032.6	1949.4	1928.7	1612.1	1190.1	979.0	842.8	570.4	366.1
115°	1978.7	2094.0	1978.7	1863.4	1834.6	1529.6	1123.0	919.7	805.1	575.6	403.6
117.5°	1864.4	1992.2	1864.4	1736.6	1704.6	1429.4	1062.4	878.9	781.4	586.4	440.0
120°	1772.3	1896.6	1772.3	1648.1	1617.0	1365.5	1030.2	862.6	773.4	595.0	461.2
122.5°	1682.7	1805.2	1682.7	1560.1	1529.5	1303.0	1001.1	850.1	769.3	607.5	486.2
125°	1554.7	1667.6	1554.7	1441.8	1413.6	1221.2	964.7	836.5	765.8	624.4	518.3
127.5°	1439.6	1534.9	1439.6	1344.4	1320.6	1155.4	935.3	825.1	763.8	641.2	549.3
130°	1371.8	1459.8	1371.8	1283.8	1261.8	1114.8	918.8	820.8	765.0	653.6	570.0
132.5°	1310.2	1389.1	1310.2	1231.5	1211.8	1080.2	904.6	816.9	765.8	663.5	586.9
135°	1226.0	1293.9	1226.0	1158.1	1141.1	1030.8	883.9	810.4	765.0	674.4	606.4
137.5°	1158.4	1214.0	1158.4	1102.8	1088.9	995.7	871.4	809.3	769.8	690.7	631.4
140°	1111.9	1163.9	1111.9	1060.0	1047.0	966.5	859.1	805.5	770.6	700.8	648.4
142.5°	1073.6	1118.2	1073.6	1028.8	1017.7	946.9	852.7	805.5	773.3	709.1	660.8
145°	1015.9	1049.8	1015.9	982.0	973.5	915.7	838.6	800.1	773.4	720.0	679.8
147.5°	971.6	999.7	971.6	943.5	936.6	891.0	830.4	800.1	778.7	735.9	703.8
150°	943.8	966.5	943.8	921.0	915.4	876.9	825.7	800.1	781.4	744.2	716.3
152.5°	920.0	937.1	920.0	902.8	898.5	865.8	822.0	800.1	783.3	749.7	724.5
155°	892.6	904.0	892.6	881.3	878.4	852.3	817.5	800.1	787.3	761.6	742.4
157.5°	870.9	878.9	870.9	863.0	861.0	840.6	813.6	800.1	791.3	773.6	760.3
160°	858.0	862.6	858.0	853.4	852.2	834.9	811.7	800.1	793.1	779.1	768.5
162.5°	849.5	853.9	849.5	845.2	844.1	829.5	809.9	800.1	795.0	784.8	777.2
165°	837.3	841.9	837.3	832.7	831.6	821.1	807.1	800.1	797.8	793.2	789.7
167.5°	828.6	830.5	828.6	826.7	826.2	819.3	810.1	805.5	803.6	799.7	796.8
170°	826.2	826.2	826.2	826.2	826.2	819.3	810.1	805.5	805.4	805.1	805.0
172.5°	819.7	818.1	819.7	821.4	821.8	816.4	809.2	805.5	805.5	805.5	805.5
175°	815.9	815.9	815.9	815.9	815.9	812.4	807.8	805.5	806.5	808.7	810.4
177.5°	812.3	810.4	812.3	814.2	814.7	812.0	808.5	806.6	807.5	809.2	810.4
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P935932

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	935.0	929.7	929.7	921.0	917.5	914.9	910.5	897.4	893.9	890.4	895.7
5°	942.8	933.3	926.2	910.5	897.4	892.2	875.6	844.2	823.3	807.6	798.9
7.5°	944.6	932.4	919.2	894.8	863.4	849.4	798.9	741.3	725.6	711.7	702.9
10°	942.8	928.8	910.5	873.9	799.7	775.3	724.7	687.2	677.7	675.0	677.7
12.5°	936.7	923.6	898.3	837.2	733.5	716.9	687.2	665.4	663.7	668.1	691.6
15°	926.2	914.0	884.3	788.4	696.8	684.6	663.7	655.9	665.4	696.0	766.6
17.5°	915.7	901.8	865.1	740.4	668.9	660.2	645.4	661.1	715.2	756.1	779.7
20°	901.8	885.2	843.3	705.6	648.9	641.0	634.1	704.7	745.7	760.5	773.6
22.5°	885.2	867.8	813.7	681.1	628.0	621.8	626.2	729.1	745.7	756.1	767.5
25°	863.4	848.6	778.8	662.0	611.4	604.4	621.0	726.5	736.1	738.7	761.4
27.5°	843.3	824.2	742.2	644.5	591.3	588.7	625.3	715.2	722.1	724.7	749.2
30°	818.9	790.2	701.2	626.2	570.4	569.5	626.2	701.2	699.5	706.4	730.9
32.5°	793.6	739.6	655.0	603.5	550.3	549.5	620.1	680.3	678.5	688.1	706.4
35°	770.1	700.3	592.2	577.4	525.1	525.9	605.3	655.9	656.7	665.4	676.8
37.5°	745.7	666.3	523.3	548.6	500.6	500.6	585.2	633.2	631.4	634.1	649.8
40°	716.9	613.1	462.3	511.1	478.0	475.3	560.8	608.8	602.7	601.8	623.6
42.5°	686.4	554.7	416.9	461.4	451.8	448.3	531.2	579.1	567.8	570.4	598.3
45°	653.2	539.0	382.0	389.9	424.8	422.2	498.9	545.1	537.3	544.2	573.0
47.5°	620.1	507.6	370.7	323.6	396.0	395.1	463.1	512.0	507.6	514.6	545.1
50°	574.8	472.7	369.8	277.3	363.7	367.2	420.4	479.7	479.7	485.8	518.1
52.5°	516.3	430.0	335.8	251.1	326.2	336.7	382.9	451.8	453.5	459.6	488.4
55°	463.1	385.5	311.4	231.1	281.7	304.3	346.3	423.0	426.5	432.6	458.8
57.5°	414.3	321.0	306.1	207.5	240.7	262.5	314.0	395.1	396.9	402.1	427.4
60°	362.0	232.0	280.8	182.3	204.9	221.5	284.3	362.0	368.1	371.6	393.4
62.5°	302.6	168.3	254.6	164.8	187.5	191.0	259.9	330.6	338.4	341.1	354.1
65°	215.4	141.3	216.3	150.0	169.2	170.0	233.7	298.2	305.2	309.6	319.3
67.5°	145.6	115.1	164.8	136.0	155.2	156.1	208.4	260.7	270.3	273.8	279.9
70°	101.2	76.7	122.1	121.2	139.5	141.3	181.4	226.7	235.4	238.1	241.6
72.5°	74.1	61.9	101.2	109.0	123.0	124.7	153.5	188.4	197.1	199.7	201.4
75°	56.7	65.4	82.0	95.1	104.6	105.5	125.6	153.5	159.6	161.3	162.2
77.5°	45.3	61.0	60.2	76.7	85.5	83.7	98.5	118.6	123.8	123.8	123.8
80°	34.0	48.0	45.3	54.9	62.8	61.0	70.6	84.6	86.3	88.1	87.2
82.5°	25.3	30.5	30.5	34.9	41.9	40.1	47.1	54.9	54.9	54.9	56.7
85°	15.7	17.4	14.0	18.3	23.5	22.7	26.2	29.6	30.5	30.5	28.8
87.5°	9.6	7.8	4.4	7.0	10.5	10.5	12.2	13.1	12.2	12.2	12.2
90°	14.1	9.8	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6
92.5°	95.7	58.7	21.7	58.7	95.7	105.0	147.5	204.3	232.7	204.0	146.5
95°	187.6	119.9	52.2	119.9	187.6	204.5	363.1	574.7	680.4	607.2	460.7
97.5°	209.7	150.0	90.3	150.0	209.7	224.6	489.1	841.9	1018.2	971.9	879.3
100°	227.9	173.8	119.6	173.8	227.9	241.5	535.0	926.4	1122.0	1125.4	1132.2
102.5°	245.7	195.2	144.7	195.2	245.7	258.4	556.1	953.0	1151.4	1210.4	1328.4
105°	272.7	230.0	187.1	230.0	272.7	283.4	571.6	955.9	1148.1	1280.3	1544.8
107.5°	310.4	270.5	230.7	270.5	310.4	320.4	574.6	913.5	1082.9	1267.3	1636.2
110°	332.1	296.0	260.0	296.0	332.1	341.1	570.2	875.7	1028.5	1234.7	1647.1



TEST NUMBER: P935932

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	357.5	323.2	288.8	323.2	357.5	366.1	570.4	842.8	979.0	1190.1	1612.1
115°	395.6	364.0	332.3	364.0	395.6	403.6	575.6	805.1	919.7	1123.0	1529.6
117.5°	432.9	404.1	375.3	404.1	432.9	440.0	586.4	781.4	878.9	1062.4	1429.4
120°	454.4	427.4	400.3	427.4	454.4	461.2	595.0	773.4	862.6	1030.2	1365.5
122.5°	479.4	452.1	424.8	452.1	479.4	486.2	607.5	769.3	850.1	1001.1	1303.0
125°	512.1	487.2	462.4	487.2	512.1	518.3	624.4	765.8	836.5	964.7	1221.2
127.5°	543.0	517.9	492.8	517.9	543.0	549.3	641.2	763.8	825.1	935.3	1155.4
130°	563.2	536.1	509.1	536.1	563.2	570.0	653.6	765.0	820.8	918.8	1114.8
132.5°	580.1	553.0	525.9	553.0	580.1	586.9	663.5	765.8	816.9	904.6	1080.2
135°	600.2	575.6	551.0	575.6	600.2	606.4	674.4	765.0	810.4	883.9	1030.8
137.5°	625.3	600.9	576.5	600.9	625.3	631.4	690.7	769.8	809.3	871.4	995.7
140°	642.8	620.3	597.8	620.3	642.8	648.4	700.8	770.6	805.5	859.1	966.5
142.5°	655.6	634.8	614.1	634.8	655.6	660.8	709.1	773.3	805.5	852.7	946.9
145°	675.3	657.3	639.1	657.3	675.3	679.8	720.0	773.4	800.1	838.6	915.7
147.5°	699.4	681.8	664.1	681.8	699.4	703.8	735.9	778.7	800.1	830.4	891.0
150°	712.3	696.4	680.4	696.4	712.3	716.3	744.2	781.4	800.1	825.7	876.9
152.5°	721.4	709.4	697.3	709.4	721.4	724.5	749.7	783.3	800.1	822.0	865.8
155°	740.2	731.3	722.3	731.3	740.2	742.4	761.6	787.3	800.1	817.5	852.3
157.5°	758.1	749.5	740.8	749.5	758.1	760.3	773.6	791.3	800.1	813.6	840.6
160°	766.9	760.1	753.3	760.1	766.9	768.5	779.1	793.1	800.1	811.7	834.9
162.5°	775.9	770.9	765.8	770.9	775.9	777.2	784.8	795.0	800.1	809.9	829.5
165°	788.6	784.0	779.4	784.0	788.6	789.7	793.2	797.8	800.1	807.1	821.1
167.5°	796.3	794.1	791.9	794.1	796.3	796.8	799.7	803.6	805.5	810.1	819.3
170°	804.5	802.3	800.1	802.3	804.5	805.0	805.1	805.4	805.5	810.1	819.3
172.5°	805.4	804.9	804.5	804.9	805.4	805.5	805.5	805.5	805.5	809.2	816.4
175°	810.4	810.4	810.4	810.4	810.4	810.4	808.7	806.5	805.5	807.8	812.4
177.5°	810.4	810.4	810.4	810.4	810.4	810.4	809.2	807.5	806.6	808.5	812.0
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P935932
 CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	889.6	886.9	890.4	880.8	890.4	886.9	889.6	895.7	890.4	893.9	897.4
5°	780.6	776.2	762.2	750.9	762.2	776.2	780.6	798.9	807.6	823.3	844.2
7.5°	697.7	694.2	690.7	683.8	690.7	694.2	697.7	702.9	711.7	725.6	741.3
10°	679.4	680.3	685.5	684.6	685.5	680.3	679.4	677.7	675.0	677.7	687.2
12.5°	726.5	734.3	763.1	761.4	763.1	734.3	726.5	691.6	668.1	663.7	665.4
15°	780.6	783.2	789.3	790.2	789.3	783.2	780.6	766.6	696.0	665.4	655.9
17.5°	785.8	786.7	791.0	791.0	791.0	786.7	785.8	779.7	756.1	715.2	661.1
20°	781.4	783.2	791.9	793.6	791.9	783.2	781.4	773.6	760.5	745.7	704.7
22.5°	779.7	783.2	790.2	789.3	790.2	783.2	779.7	767.5	756.1	745.7	729.1
25°	771.0	771.0	771.8	772.7	771.8	771.0	771.0	761.4	738.7	736.1	726.5
27.5°	752.7	754.4	759.6	758.8	759.6	754.4	752.7	749.2	724.7	722.1	715.2
30°	736.1	734.3	730.0	726.5	730.0	734.3	736.1	730.9	706.4	699.5	701.2
32.5°	708.2	703.8	699.5	696.8	699.5	703.8	708.2	706.4	688.1	678.5	680.3
35°	675.0	675.9	675.0	672.4	675.0	675.9	675.0	676.8	665.4	656.7	655.9
37.5°	651.5	653.2	652.4	648.9	652.4	653.2	651.5	649.8	634.1	631.4	633.2
40°	627.1	628.0	627.1	624.5	627.1	628.0	627.1	623.6	601.8	602.7	608.8
42.5°	603.5	602.7	600.0	598.3	600.0	602.7	603.5	598.3	570.4	567.8	579.1
45°	576.5	577.4	572.1	569.5	572.1	577.4	576.5	573.0	544.2	537.3	545.1
47.5°	549.5	549.5	545.1	542.5	545.1	549.5	549.5	545.1	514.6	507.6	512.0
50°	520.7	519.8	513.7	512.8	513.7	519.8	520.7	518.1	485.8	479.7	479.7
52.5°	487.6	487.6	488.4	490.2	488.4	487.6	487.6	488.4	459.6	453.5	451.8
55°	458.8	459.6	465.8	467.5	465.8	459.6	458.8	458.8	432.6	426.5	423.0
57.5°	429.1	429.1	433.5	433.5	433.5	429.1	429.1	427.4	402.1	396.9	395.1
60°	395.1	396.9	400.4	399.5	400.4	396.9	395.1	393.4	371.6	368.1	362.0
62.5°	359.4	361.1	362.0	360.2	362.0	361.1	359.4	354.1	341.1	338.4	330.6
65°	321.9	323.6	324.5	322.7	324.5	323.6	321.9	319.3	309.6	305.2	298.2
67.5°	283.4	282.5	281.7	285.2	281.7	282.5	283.4	279.9	273.8	270.3	260.7
70°	244.2	244.2	243.3	245.0	243.3	244.2	244.2	241.6	238.1	235.4	226.7
72.5°	202.3	201.4	204.9	202.3	204.9	201.4	202.3	201.4	199.7	197.1	188.4
75°	161.3	163.1	161.3	163.9	161.3	163.1	161.3	162.2	161.3	159.6	153.5
77.5°	123.0	124.7	123.0	123.0	123.0	124.7	123.0	123.8	123.8	123.8	118.6
80°	87.2	86.3	86.3	85.5	86.3	86.3	87.2	87.2	88.1	86.3	84.6
82.5°	55.8	54.9	54.9	56.7	54.9	54.9	55.8	56.7	54.9	54.9	54.9
85°	30.5	31.4	29.6	29.6	29.6	31.4	30.5	28.8	30.5	30.5	29.6
87.5°	11.3	10.5	10.5	10.5	10.5	10.5	11.3	12.2	12.2	12.2	13.1
90°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6
92.5°	103.3	99.2	82.8	66.4	82.8	99.2	103.3	146.5	204.0	232.7	204.3
95°	350.8	338.3	288.6	238.8	288.6	338.3	350.8	460.7	607.2	680.4	574.7
97.5°	809.9	786.1	691.4	596.6	691.4	786.1	809.9	879.3	971.9	1018.2	841.9
100°	1137.3	1109.1	996.2	883.3	996.2	1109.1	1137.3	1132.2	1125.4	1122.0	926.4
102.5°	1416.9	1392.7	1296.0	1199.3	1296.0	1392.7	1416.9	1328.4	1210.4	1151.4	953.0
105°	1743.2	1730.2	1678.2	1626.3	1678.2	1730.2	1743.2	1544.8	1280.3	1148.1	955.9
107.5°	1912.9	1916.0	1928.6	1941.1	1928.6	1916.0	1912.9	1636.2	1267.3	1082.9	913.5
110°	1956.4	1969.9	2024.1	2078.2	2024.1	1969.9	1956.4	1647.1	1234.7	1028.5	875.7



TEST NUMBER: P935932

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1928.7	1949.4	2032.6	2115.7	2032.6	1949.4	1928.7	1612.1	1190.1	979.0	842.8
115°	1834.6	1863.4	1978.7	2094.0	1978.7	1863.4	1834.6	1529.6	1123.0	919.7	805.1
117.5°	1704.6	1736.6	1864.4	1992.2	1864.4	1736.6	1704.6	1429.4	1062.4	878.9	781.4
120°	1617.0	1648.1	1772.3	1896.6	1772.3	1648.1	1617.0	1365.5	1030.2	862.6	773.4
122.5°	1529.5	1560.1	1682.7	1805.2	1682.7	1560.1	1529.5	1303.0	1001.1	850.1	769.3
125°	1413.6	1441.8	1554.7	1667.6	1554.7	1441.8	1413.6	1221.2	964.7	836.5	765.8
127.5°	1320.6	1344.4	1439.6	1534.9	1439.6	1344.4	1320.6	1155.4	935.3	825.1	763.8
130°	1261.8	1283.8	1371.8	1459.8	1371.8	1283.8	1261.8	1114.8	918.8	820.8	765.0
132.5°	1211.8	1231.5	1310.2	1389.1	1310.2	1231.5	1211.8	1080.2	904.6	816.9	765.8
135°	1141.1	1158.1	1226.0	1293.9	1226.0	1158.1	1141.1	1030.8	883.9	810.4	765.0
137.5°	1088.9	1102.8	1158.4	1214.0	1158.4	1102.8	1088.9	995.7	871.4	809.3	769.8
140°	1047.0	1060.0	1111.9	1163.9	1111.9	1060.0	1047.0	966.5	859.1	805.5	770.6
142.5°	1017.7	1028.8	1073.6	1118.2	1073.6	1028.8	1017.7	946.9	852.7	805.5	773.3
145°	973.5	982.0	1015.9	1049.8	1015.9	982.0	973.5	915.7	838.6	800.1	773.4
147.5°	936.6	943.5	971.6	999.7	971.6	943.5	936.6	891.0	830.4	800.1	778.7
150°	915.4	921.0	943.8	966.5	943.8	921.0	915.4	876.9	825.7	800.1	781.4
152.5°	898.5	902.8	920.0	937.1	920.0	902.8	898.5	865.8	822.0	800.1	783.3
155°	878.4	881.3	892.6	904.0	892.6	881.3	878.4	852.3	817.5	800.1	787.3
157.5°	861.0	863.0	870.9	878.9	870.9	863.0	861.0	840.6	813.6	800.1	791.3
160°	852.2	853.4	858.0	862.6	858.0	853.4	852.2	834.9	811.7	800.1	793.1
162.5°	844.1	845.2	849.5	853.9	849.5	845.2	844.1	829.5	809.9	800.1	795.0
165°	831.6	832.7	837.3	841.9	837.3	832.7	831.6	821.1	807.1	800.1	797.8
167.5°	826.2	826.7	828.6	830.5	828.6	826.7	826.2	819.3	810.1	805.5	803.6
170°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	819.3	810.1	805.5	805.4
172.5°	821.8	821.4	819.7	818.1	819.7	821.4	821.8	816.4	809.2	805.5	805.5
175°	815.9	815.9	815.9	815.9	815.9	815.9	815.9	812.4	807.8	805.5	806.5
177.5°	814.7	814.2	812.3	810.4	812.3	814.2	814.7	812.0	808.5	806.6	807.5
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P935932

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	921.8	921.8	921.8	921.8	921.8
2.5°	910.5	914.9	917.5	921.0	929.7
5°	875.6	892.2	897.4	910.5	926.2
7.5°	798.9	849.4	863.4	894.8	919.2
10°	724.7	775.3	799.7	873.9	910.5
12.5°	687.2	716.9	733.5	837.2	898.3
15°	663.7	684.6	696.8	788.4	884.3
17.5°	645.4	660.2	668.9	740.4	865.1
20°	634.1	641.0	648.9	705.6	843.3
22.5°	626.2	621.8	628.0	681.1	813.7
25°	621.0	604.4	611.4	662.0	778.8
27.5°	625.3	588.7	591.3	644.5	742.2
30°	626.2	569.5	570.4	626.2	701.2
32.5°	620.1	549.5	550.3	603.5	655.0
35°	605.3	525.9	525.1	577.4	592.2
37.5°	585.2	500.6	500.6	548.6	523.3
40°	560.8	475.3	478.0	511.1	462.3
42.5°	531.2	448.3	451.8	461.4	416.9
45°	498.9	422.2	424.8	389.9	382.0
47.5°	463.1	395.1	396.0	323.6	370.7
50°	420.4	367.2	363.7	277.3	369.8
52.5°	382.9	336.7	326.2	251.1	335.8
55°	346.3	304.3	281.7	231.1	311.4
57.5°	314.0	262.5	240.7	207.5	306.1
60°	284.3	221.5	204.9	182.3	280.8
62.5°	259.9	191.0	187.5	164.8	254.6
65°	233.7	170.0	169.2	150.0	216.3
67.5°	208.4	156.1	155.2	136.0	164.8
70°	181.4	141.3	139.5	121.2	122.1
72.5°	153.5	124.7	123.0	109.0	101.2
75°	125.6	105.5	104.6	95.1	82.0
77.5°	98.5	83.7	85.5	76.7	60.2
80°	70.6	61.0	62.8	54.9	45.3
82.5°	47.1	40.1	41.9	34.9	30.5
85°	26.2	22.7	23.5	18.3	14.0
87.5°	12.2	10.5	10.5	7.0	4.4
90°	24.0	15.3	14.1	9.8	5.4
92.5°	147.5	105.0	95.7	58.7	21.7
95°	363.1	204.5	187.6	119.9	52.2
97.5°	489.1	224.6	209.7	150.0	90.3
100°	535.0	241.5	227.9	173.8	119.6
102.5°	556.1	258.4	245.7	195.2	144.7
105°	571.6	283.4	272.7	230.0	187.1
107.5°	574.6	320.4	310.4	270.5	230.7
110°	570.2	341.1	332.1	296.0	260.0



TEST NUMBER: P935932

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	570.4	366.1	357.5	323.2	288.8
115°	575.6	403.6	395.6	364.0	332.3
117.5°	586.4	440.0	432.9	404.1	375.3
120°	595.0	461.2	454.4	427.4	400.3
122.5°	607.5	486.2	479.4	452.1	424.8
125°	624.4	518.3	512.1	487.2	462.4
127.5°	641.2	549.3	543.0	517.9	492.8
130°	653.6	570.0	563.2	536.1	509.1
132.5°	663.5	586.9	580.1	553.0	525.9
135°	674.4	606.4	600.2	575.6	551.0
137.5°	690.7	631.4	625.3	600.9	576.5
140°	700.8	648.4	642.8	620.3	597.8
142.5°	709.1	660.8	655.6	634.8	614.1
145°	720.0	679.8	675.3	657.3	639.1
147.5°	735.9	703.8	699.4	681.8	664.1
150°	744.2	716.3	712.3	696.4	680.4
152.5°	749.7	724.5	721.4	709.4	697.3
155°	761.6	742.4	740.2	731.3	722.3
157.5°	773.6	760.3	758.1	749.5	740.8
160°	779.1	768.5	766.9	760.1	753.3
162.5°	784.8	777.2	775.9	770.9	765.8
165°	793.2	789.7	788.6	784.0	779.4
167.5°	799.7	796.8	796.3	794.1	791.9
170°	805.1	805.0	804.5	802.3	800.1
172.5°	805.5	805.5	805.4	804.9	804.5
175°	808.7	810.4	810.4	810.4	810.4
177.5°	809.2	810.4	810.4	810.4	810.4
180°	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P935932

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-3000K

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	10.21	10.93	11.31	12.03	13.54	13.01	13.72	14.11	14.82	16.34
	3H	10.68	11.32	11.79	12.42	13.96	14.33	14.97	15.44	16.08	17.61
	4H	10.86	11.47	11.98	12.58	14.12	14.76	15.37	15.88	16.48	18.02
	6H	10.97	11.53	12.10	12.64	14.19	15.03	15.59	16.16	16.70	18.25
	8H	10.97	11.50	12.10	12.63	14.17	15.10	15.63	16.23	16.76	18.30
	12H	10.94	11.44	12.07	12.56	14.13	15.13	15.63	16.27	16.75	18.32
4H	2H	11.22	11.83	12.35	12.93	14.47	13.40	14.01	14.53	15.12	16.66
	3H	12.23	12.74	13.37	13.87	15.42	14.88	15.39	16.02	16.52	18.07
	4H	12.50	12.97	13.64	14.09	15.66	15.40	15.86	16.54	16.99	18.56
	6H	12.62	13.02	13.76	14.16	15.72	15.75	16.15	16.89	17.29	18.85
	8H	12.62	12.99	13.76	14.13	15.71	15.85	16.22	16.99	17.36	18.93
	12H	12.58	12.92	13.74	14.07	15.65	15.89	16.23	17.05	17.38	18.96
8H	4H	12.94	13.31	14.08	14.45	16.03	15.51	15.88	16.66	17.02	18.60
	6H	13.19	13.50	14.36	14.68	16.25	15.93	16.24	17.10	17.42	19.00
	8H	13.23	13.50	14.40	14.66	16.26	16.08	16.35	17.25	17.51	19.10
	12H	13.21	13.45	14.39	14.60	16.23	16.17	16.40	17.34	17.56	19.19
12H	4H	12.93	13.27	14.10	14.42	16.01	15.47	15.81	16.63	16.96	18.54
	6H	13.25	13.52	14.42	14.68	16.27	15.93	16.20	17.10	17.36	18.95
	8H	13.31	13.55	14.48	14.70	16.33	16.08	16.32	17.25	17.47	19.10