

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: P935960

Luminaire Tested: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935960
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-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

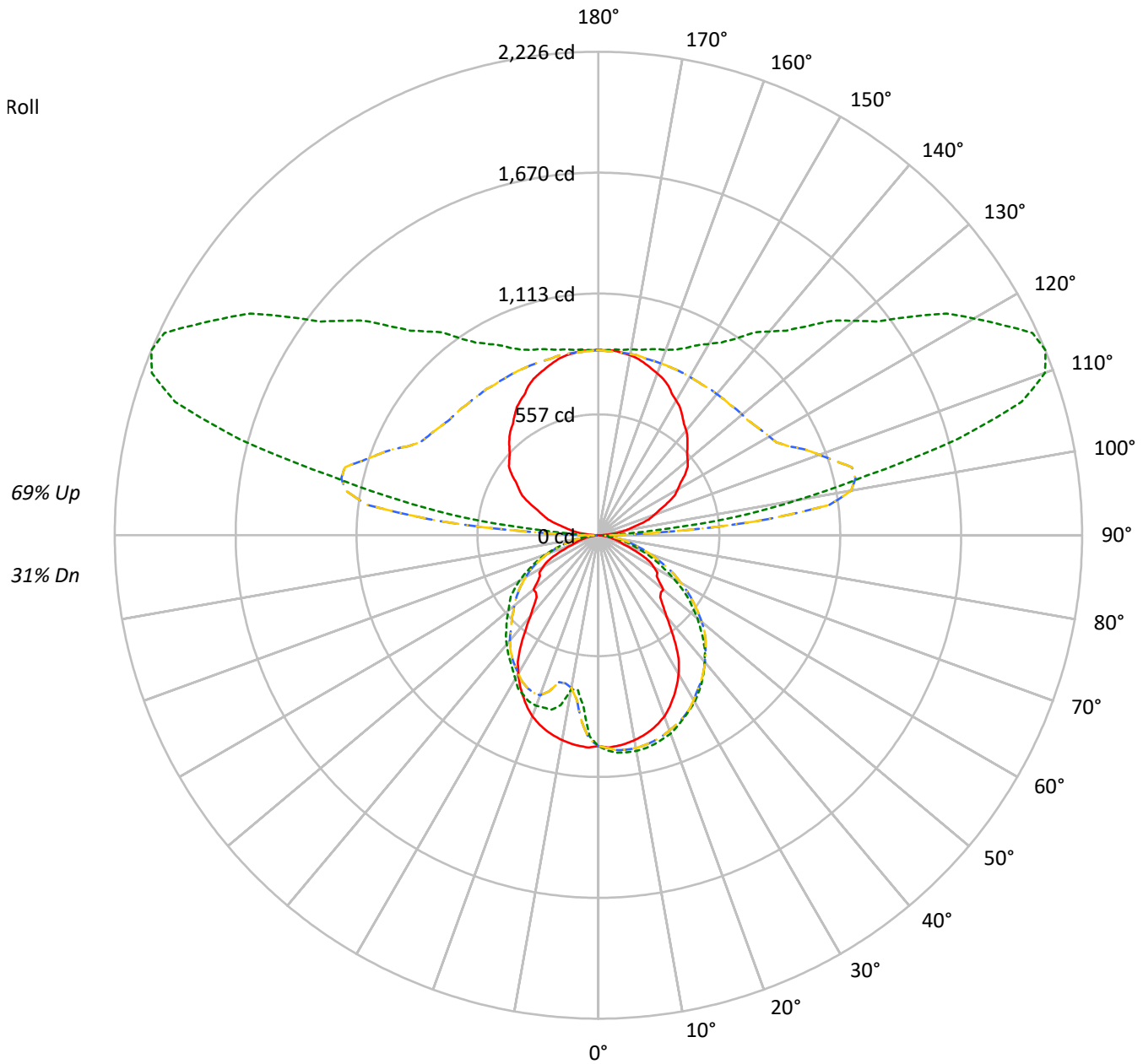
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8047.3 lumens
Efficiency: N/A
Efficacy: 126.5 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: P935960
CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

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

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	1.1
10°-20°	248.6	3.1
20°-30°	384.3	4.8
30°-40°	458.8	5.7
40°-50°	461.5	5.7
50°-60°	401.6	5.0
60°-70°	284.7	3.5
70°-80°	150.6	1.9
80°-90°	40.8	0.5
90°-100°	415.7	5.2
100°-110°	1093.0	13.6
110°-120°	1133.3	14.1
120°-130°	909.0	11.3
130°-140°	713.2	8.9
140°-150°	547.5	6.8
150°-160°	394.3	4.9
160°-170°	241.2	3.0
170°-180°	81.5	1.0
0°-30°	720.6	9.0
0°-40°	1179.4	14.7
0°-60°	2042.5	25.4
0°-90°	2518.6	31.3
90°-120°	2642.0	32.8
90°-150°	4811.7	59.8
90°-180°	5529.0	68.7
0°-180°	8047.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	970	970	970	970	970	
5°	975	1005	975	790	975	92
15°	931	996	931	832	931	262
25°	820	929	820	813	820	376
35°	623	829	623	708	623	386
45°	402	683	402	599	402	322
55°	328	504	328	492	328	301
65°	228	304	228	340	228	218
75°	86	144	86	172	86	91
85°	15	37	15	31	15	20
90°	6	22	6	22	6	5
95°	55	251	55	251	55	61
105°	197	1711	197	1711	197	209
115°	350	2204	350	2204	350	345
125°	487	1755	487	1755	487	432
135°	580	1362	580	1362	580	449
145°	673	1105	673	1105	673	421
155°	760	951	760	951	760	349
165°	820	886	820	886	820	231
175°	853	853	853	853	853	81
180°	853	853	853	853	853	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	978.4	978.4	984.0	985.8	985.8	983.0	980.3	983.0	991.3	994.0	993.1
5°	974.7	982.1	992.2	994.0	995.9	995.0	993.1	995.0	1004.1	1006.0	1006.9
7.5°	967.3	981.2	994.0	996.8	999.6	996.8	995.9	997.7	1006.9	1008.7	1008.7
10°	958.2	977.4	992.2	994.0	996.8	994.0	994.0	997.7	1006.9	1008.7	1009.6
12.5°	945.3	971.9	985.8	987.6	991.3	990.4	989.5	993.1	1002.3	1004.1	1004.1
15°	930.6	961.8	974.7	976.5	983.0	981.2	981.2	984.9	995.0	997.7	996.8
17.5°	910.4	949.0	963.7	966.4	971.0	970.1	971.0	974.7	984.0	985.8	986.7
20°	887.5	931.6	949.0	951.7	956.3	956.3	956.3	960.9	970.1	973.8	973.8
22.5°	856.3	913.2	931.6	933.4	938.9	938.9	940.7	947.2	955.4	956.3	956.3
25°	819.6	893.0	908.6	914.1	919.6	922.4	925.1	928.8	931.6	930.6	931.6
27.5°	781.1	867.3	887.5	891.2	898.5	901.3	904.9	905.9	906.8	909.5	907.7
30°	737.9	831.5	861.8	865.5	877.4	879.2	875.6	877.4	882.0	883.8	885.7
32.5°	689.3	778.3	835.2	843.5	854.5	849.0	848.0	850.8	858.1	858.1	860.0
35°	623.2	737.0	810.4	817.8	826.0	819.6	823.3	824.2	828.8	831.5	830.6
37.5°	550.7	701.2	784.7	790.2	796.7	788.4	793.9	796.7	800.3	798.5	798.5
40°	486.5	645.2	754.4	758.1	763.6	757.2	762.7	764.5	766.4	764.5	763.6
42.5°	438.7	583.7	722.3	726.9	723.2	727.8	729.7	733.3	730.6	726.9	726.9
45°	402.0	567.2	687.4	693.0	687.4	694.8	697.5	697.5	689.3	687.4	686.5
47.5°	390.1	534.2	652.6	652.6	649.8	659.0	663.6	657.2	648.9	646.1	646.1
50°	389.2	497.5	604.9	601.2	614.0	625.0	620.5	614.0	607.6	597.5	597.5
52.5°	353.4	452.5	543.4	557.1	577.3	583.7	576.4	570.0	559.0	554.4	550.7
55°	327.7	405.7	487.4	514.9	536.0	544.3	530.5	524.1	507.6	504.8	503.0
57.5°	322.1	337.8	436.0	470.9	496.6	495.6	487.4	475.5	461.7	458.9	458.0
60°	295.5	244.1	380.9	422.2	448.8	446.1	438.7	427.7	414.9	413.1	411.2
62.5°	268.0	177.1	318.4	365.3	403.0	402.0	395.6	379.1	369.9	365.3	361.7
65°	227.6	148.7	226.7	303.8	358.0	359.8	346.1	334.1	323.9	318.4	317.5
67.5°	173.4	121.1	153.3	253.3	314.8	312.9	295.5	290.0	277.1	274.4	268.9
70°	128.5	80.8	106.5	205.6	272.6	268.0	254.2	247.8	235.8	229.4	225.8
72.5°	106.5	65.2	78.0	159.7	229.4	223.9	212.0	204.6	194.6	189.0	185.4
75°	86.3	68.8	59.7	118.4	186.3	182.6	171.6	164.3	156.0	148.7	149.6
77.5°	63.3	64.2	47.7	87.2	147.7	142.2	135.8	126.6	123.0	115.6	115.6
80°	47.7	50.5	35.8	59.7	106.5	106.5	100.9	94.5	88.1	84.4	84.4
82.5°	32.1	32.1	26.6	37.6	72.5	69.7	66.1	64.2	60.6	58.7	58.7
85°	14.7	18.4	16.5	22.9	39.5	41.3	41.3	39.5	38.5	36.7	37.6
87.5°	4.6	8.3	10.1	12.8	20.2	21.1	22.0	22.0	22.0	22.9	22.9
90°	5.7	10.3	14.9	16.1	25.2	37.4	43.5	38.6	29.0	21.7	21.7
92.5°	22.9	61.8	100.8	110.5	155.3	215.0	244.9	214.6	154.2	108.7	104.4
95°	55.0	126.2	197.4	215.2	382.1	604.8	716.1	639.0	484.8	369.2	356.1
97.5°	95.0	157.8	220.7	236.4	514.7	885.9	1071.5	1022.8	925.3	852.3	827.3
100°	125.9	182.9	239.9	254.1	563.0	974.9	1180.8	1184.4	1191.5	1196.9	1167.1
102.5°	152.2	205.5	258.6	271.9	585.2	1002.9	1211.7	1273.8	1397.9	1491.1	1465.7
105°	196.9	242.0	287.0	298.3	601.5	1006.0	1208.2	1347.4	1625.7	1834.5	1820.8
107.5°	242.7	284.7	326.7	337.2	604.7	961.3	1139.6	1333.7	1721.9	2013.1	2016.4
110°	273.6	311.5	349.5	358.9	600.1	921.5	1082.3	1299.4	1733.3	2058.8	2073.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	303.9	340.1	376.3	385.2	600.3	887.0	1030.3	1252.4	1696.5	2029.7	2051.5
115°	349.7	383.0	416.4	424.7	605.8	847.2	967.9	1181.8	1609.7	1930.6	1961.0
117.5°	395.0	425.3	455.5	463.1	617.1	822.3	924.9	1118.0	1504.2	1793.8	1827.5
120°	421.2	449.8	478.2	485.4	626.1	813.9	907.8	1084.2	1437.0	1701.7	1734.4
122.5°	447.0	475.7	504.5	511.7	639.4	809.6	894.7	1053.5	1371.2	1609.5	1641.8
125°	486.6	512.7	539.0	545.5	657.1	805.9	880.3	1015.2	1285.1	1487.6	1517.3
127.5°	518.6	545.0	571.4	578.1	674.8	803.8	868.3	984.2	1215.9	1389.8	1414.8
130°	535.8	564.2	592.6	599.8	687.8	805.1	863.7	966.9	1173.2	1327.9	1351.0
132.5°	553.5	582.0	610.5	617.6	698.3	805.9	859.7	952.0	1136.7	1275.2	1296.0
135°	579.8	605.8	631.6	638.2	709.7	805.1	852.8	930.2	1084.8	1200.8	1218.7
137.5°	606.7	632.4	658.1	664.5	726.9	810.1	851.7	917.1	1047.8	1145.9	1160.5
140°	629.1	652.8	676.4	682.3	737.5	811.0	847.7	904.1	1017.1	1101.8	1115.5
142.5°	646.2	668.1	689.9	695.4	746.2	813.8	847.7	897.3	996.5	1071.0	1082.7
145°	672.6	691.7	710.7	715.4	757.6	813.9	842.0	882.5	963.7	1024.5	1033.4
147.5°	698.8	717.5	736.0	740.7	774.4	819.5	842.0	873.9	937.7	985.6	992.9
150°	716.1	732.9	749.6	753.8	783.2	822.3	842.0	869.0	922.8	963.3	969.3
152.5°	733.8	746.5	759.2	762.4	788.9	824.3	842.0	865.0	911.1	945.6	950.1
155°	760.1	769.6	778.9	781.3	801.5	828.5	842.0	860.3	897.0	924.4	927.4
157.5°	779.6	788.8	797.8	800.1	814.1	832.7	842.0	856.2	884.7	906.0	908.2
160°	792.7	799.9	807.0	808.8	819.9	834.6	842.0	854.2	878.6	896.9	898.1
162.5°	805.9	811.2	816.6	817.9	825.9	836.7	842.0	852.3	872.9	888.3	889.4
165°	820.2	825.0	829.9	831.1	834.7	839.6	842.0	849.3	864.1	875.1	876.3
167.5°	833.4	835.7	837.9	838.5	841.5	845.7	847.7	852.5	862.2	869.4	870.0
170°	842.0	844.3	846.6	847.1	847.3	847.6	847.7	852.5	862.2	869.4	869.4
172.5°	846.6	847.0	847.6	847.7	847.7	847.7	847.7	851.5	859.1	864.8	864.4
175°	852.8	852.8	852.8	852.8	851.1	848.8	847.7	850.1	854.9	858.6	858.6
177.5°	852.8	852.8	852.8	852.8	851.5	849.8	848.9	850.8	854.6	857.4	856.9
180°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	995.0	992.2	995.0	993.1	994.0	991.3	983.0	980.3	983.0	985.8	985.8
5°	1006.9	1005.1	1006.9	1006.9	1006.0	1004.1	995.0	993.1	995.0	995.9	994.0
7.5°	1010.6	1007.8	1010.6	1008.7	1008.7	1006.9	997.7	995.9	996.8	999.6	996.8
10°	1010.6	1007.8	1010.6	1009.6	1008.7	1006.9	997.7	994.0	994.0	996.8	994.0
12.5°	1006.0	1004.1	1006.0	1004.1	1004.1	1002.3	993.1	989.5	990.4	991.3	987.6
15°	998.6	995.9	998.6	996.8	997.7	995.0	984.9	981.2	981.2	983.0	976.5
17.5°	987.6	984.0	987.6	986.7	985.8	984.0	974.7	971.0	970.1	971.0	966.4
20°	974.7	971.9	974.7	973.8	973.8	970.1	960.9	956.3	956.3	956.3	951.7
22.5°	954.5	951.7	954.5	956.3	956.3	955.4	947.2	940.7	938.9	938.9	933.4
25°	931.6	928.8	931.6	931.6	930.6	931.6	928.8	925.1	922.4	919.6	914.1
27.5°	909.5	907.7	909.5	907.7	909.5	906.8	905.9	904.9	901.3	898.5	891.2
30°	887.5	885.7	887.5	885.7	883.8	882.0	877.4	875.6	879.2	877.4	865.5
32.5°	860.0	858.1	860.0	860.0	858.1	858.1	850.8	848.0	849.0	854.5	843.5
35°	831.5	828.8	831.5	830.6	831.5	828.8	824.2	823.3	819.6	826.0	817.8
37.5°	798.5	795.7	798.5	798.5	798.5	800.3	796.7	793.9	788.4	796.7	790.2
40°	764.5	760.9	764.5	763.6	764.5	766.4	764.5	762.7	757.2	763.6	758.1
42.5°	726.0	725.1	726.0	726.9	726.9	730.6	733.3	729.7	727.8	723.2	726.9
45°	684.7	682.9	684.7	686.5	687.4	689.3	697.5	697.5	694.8	687.4	693.0
47.5°	640.6	636.1	640.6	646.1	646.1	648.9	657.2	663.6	659.0	649.8	652.6
50°	593.8	594.8	593.8	597.5	597.5	607.6	614.0	620.5	625.0	614.0	601.2
52.5°	548.0	547.0	548.0	550.7	554.4	559.0	570.0	576.4	583.7	577.3	557.1
55°	502.1	503.9	502.1	503.0	504.8	507.6	524.1	530.5	544.3	536.0	514.9
57.5°	456.2	453.4	456.2	458.0	458.9	461.7	475.5	487.4	495.6	496.6	470.9
60°	403.0	399.3	403.0	411.2	413.1	414.9	427.7	438.7	446.1	448.8	422.2
62.5°	356.2	349.7	356.2	361.7	365.3	369.9	379.1	395.6	402.0	403.0	365.3
65°	306.5	303.8	306.5	317.5	318.4	323.9	334.1	346.1	359.8	358.0	303.8
67.5°	261.5	261.5	261.5	268.9	274.4	277.1	290.0	295.5	312.9	314.8	253.3
70°	220.2	219.3	220.2	225.8	229.4	235.8	247.8	254.2	268.0	272.6	205.6
72.5°	180.8	179.9	180.8	185.4	189.0	194.6	204.6	212.0	223.9	229.4	159.7
75°	145.9	144.1	145.9	149.6	148.7	156.0	164.3	171.6	182.6	186.3	118.4
77.5°	112.0	112.0	112.0	115.6	115.6	123.0	126.6	135.8	142.2	147.7	87.2
80°	83.5	82.6	83.5	84.4	84.4	88.1	94.5	100.9	106.5	106.5	59.7
82.5°	58.7	56.9	58.7	58.7	58.7	60.6	64.2	66.1	69.7	72.5	37.6
85°	36.7	36.7	36.7	37.6	36.7	38.5	39.5	41.3	41.3	39.5	22.9
87.5°	23.9	22.9	23.9	22.9	22.9	22.0	22.0	22.0	21.1	20.2	12.8
90°	21.7	21.7	21.7	21.7	21.7	29.0	38.6	43.5	37.4	25.2	16.1
92.5°	87.1	69.8	87.1	104.4	108.7	154.2	214.6	244.9	215.0	155.3	110.5
95°	303.7	251.3	303.7	356.1	369.2	484.8	639.0	716.1	604.8	382.1	215.2
97.5°	727.6	627.9	727.6	827.3	852.3	925.3	1022.8	1071.5	885.9	514.7	236.4
100°	1048.4	929.5	1048.4	1167.1	1196.9	1191.5	1184.4	1180.8	974.9	563.0	254.1
102.5°	1363.9	1262.1	1363.9	1465.7	1491.1	1397.9	1273.8	1211.7	1002.9	585.2	271.9
105°	1766.1	1711.4	1766.1	1820.8	1834.5	1625.7	1347.4	1208.2	1006.0	601.5	298.3
107.5°	2029.6	2042.8	2029.6	2016.4	2013.1	1721.9	1333.7	1139.6	961.3	604.7	337.2
110°	2130.1	2187.1	2130.1	2073.1	2058.8	1733.3	1299.4	1082.3	921.5	600.1	358.9



TEST NUMBER: P935960

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2139.1	2226.5	2139.1	2051.5	2029.7	1696.5	1252.4	1030.3	887.0	600.3	385.2
115°	2082.3	2203.7	2082.3	1961.0	1930.6	1609.7	1181.8	967.9	847.2	605.8	424.7
117.5°	1962.0	2096.6	1962.0	1827.5	1793.8	1504.2	1118.0	924.9	822.3	617.1	463.1
120°	1865.1	1995.9	1865.1	1734.4	1701.7	1437.0	1084.2	907.8	813.9	626.1	485.4
122.5°	1770.8	1899.7	1770.8	1641.8	1609.5	1371.2	1053.5	894.7	809.6	639.4	511.7
125°	1636.1	1754.9	1636.1	1517.3	1487.6	1285.1	1015.2	880.3	805.9	657.1	545.5
127.5°	1515.0	1615.2	1515.0	1414.8	1389.8	1215.9	984.2	868.3	803.8	674.8	578.1
130°	1443.6	1536.2	1443.6	1351.0	1327.9	1173.2	966.9	863.7	805.1	687.8	599.8
132.5°	1378.8	1461.8	1378.8	1296.0	1275.2	1136.7	952.0	859.7	805.9	698.3	617.6
135°	1290.2	1361.7	1290.2	1218.7	1200.8	1084.8	930.2	852.8	805.1	709.7	638.2
137.5°	1219.1	1277.5	1219.1	1160.5	1145.9	1047.8	917.1	851.7	810.1	726.9	664.5
140°	1170.2	1224.8	1170.2	1115.5	1101.8	1017.1	904.1	847.7	811.0	737.5	682.3
142.5°	1129.8	1176.8	1129.8	1082.7	1071.0	996.5	897.3	847.7	813.8	746.2	695.4
145°	1069.1	1104.7	1069.1	1033.4	1024.5	963.7	882.5	842.0	813.9	757.6	715.4
147.5°	1022.5	1052.0	1022.5	992.9	985.6	937.7	873.9	842.0	819.5	774.4	740.7
150°	993.2	1017.1	993.2	969.3	963.3	922.8	869.0	842.0	822.3	783.2	753.8
152.5°	968.2	986.2	968.2	950.1	945.6	911.1	865.0	842.0	824.3	788.9	762.4
155°	939.4	951.3	939.4	927.4	924.4	897.0	860.3	842.0	828.5	801.5	781.3
157.5°	916.5	924.9	916.5	908.2	906.0	884.7	856.2	842.0	832.7	814.1	800.1
160°	902.9	907.8	902.9	898.1	896.9	878.6	854.2	842.0	834.6	819.9	808.8
162.5°	894.0	898.6	894.0	889.4	888.3	872.9	852.3	842.0	836.7	825.9	817.9
165°	881.2	886.0	881.2	876.3	875.1	864.1	849.3	842.0	839.6	834.7	831.1
167.5°	872.0	874.0	872.0	870.0	869.4	862.2	852.5	847.7	845.7	841.5	838.5
170°	869.4	869.4	869.4	869.4	869.4	862.2	852.5	847.7	847.6	847.3	847.1
172.5°	862.6	860.9	862.6	864.4	864.8	859.1	851.5	847.7	847.7	847.7	847.7
175°	858.6	858.6	858.6	858.6	858.6	854.9	850.1	847.7	848.8	851.1	852.8
177.5°	854.8	852.8	854.8	856.9	857.4	854.6	850.8	848.9	849.8	851.5	852.8
180°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8



TEST NUMBER: P935960

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	984.0	978.4	978.4	969.2	965.5	962.8	958.2	944.4	940.7	937.1	942.6
5°	992.2	982.1	974.7	958.2	944.4	938.9	921.5	888.4	866.4	849.9	840.7
7.5°	994.0	981.2	967.3	941.6	908.6	893.9	840.7	780.1	763.6	748.9	739.8
10°	992.2	977.4	958.2	919.6	841.6	815.9	762.7	723.2	713.1	710.4	713.1
12.5°	985.8	971.9	945.3	881.1	771.9	754.4	723.2	700.3	698.5	703.0	727.8
15°	974.7	961.8	930.6	829.7	733.3	720.5	698.5	690.2	700.3	732.4	806.7
17.5°	963.7	949.0	910.4	779.2	704.0	694.8	679.2	695.7	752.6	795.7	820.5
20°	949.0	931.6	887.5	742.5	682.9	674.6	667.3	741.6	784.7	800.3	814.1
22.5°	931.6	913.2	856.3	716.8	660.8	654.4	659.0	767.3	784.7	795.7	807.7
25°	908.6	893.0	819.6	696.6	643.4	636.1	653.5	764.5	774.6	777.4	801.2
27.5°	887.5	867.3	781.1	678.3	622.3	619.5	658.1	752.6	759.9	762.7	788.4
30°	861.8	831.5	737.9	659.0	600.3	599.3	659.0	737.9	736.1	743.4	769.1
32.5°	835.2	778.3	689.3	635.1	579.2	578.2	652.6	715.9	714.1	724.2	743.4
35°	810.4	737.0	623.2	607.6	552.5	553.5	637.0	690.2	691.1	700.3	712.2
37.5°	784.7	701.2	550.7	577.3	526.8	526.8	615.9	666.3	664.5	667.3	683.8
40°	754.4	645.2	486.5	537.9	503.0	500.2	590.2	640.6	634.2	633.3	656.2
42.5°	722.3	583.7	438.7	485.6	475.5	471.8	559.0	609.4	597.5	600.3	629.6
45°	687.4	567.2	402.0	410.3	447.0	444.3	525.0	573.7	565.4	572.7	603.0
47.5°	652.6	534.2	390.1	340.6	416.7	415.8	487.4	538.8	534.2	541.5	573.7
50°	604.9	497.5	389.2	291.8	382.8	386.4	442.4	504.8	504.8	511.2	545.2
52.5°	543.4	452.5	353.4	264.3	343.3	354.3	403.0	475.5	477.3	483.7	514.0
55°	487.4	405.7	327.7	243.2	296.4	320.3	364.4	445.2	448.8	455.3	482.8
57.5°	436.0	337.8	322.1	218.4	253.3	276.2	330.5	415.8	417.6	423.1	449.8
60°	380.9	244.1	295.5	191.8	215.7	233.1	299.2	380.9	387.4	391.0	414.0
62.5°	318.4	177.1	268.0	173.4	197.3	201.0	273.5	347.9	356.2	358.9	372.7
65°	226.7	148.7	227.6	157.8	178.0	179.0	245.9	313.9	321.2	325.8	336.0
67.5°	153.3	121.1	173.4	143.2	163.3	164.3	219.3	274.4	284.5	288.2	294.6
70°	106.5	80.8	128.5	127.6	146.8	148.7	190.9	238.6	247.8	250.5	254.2
72.5°	78.0	65.2	106.5	114.7	129.4	131.2	161.5	198.2	207.4	210.2	212.0
75°	59.7	68.8	86.3	100.0	110.1	111.0	132.1	161.5	167.9	169.8	170.7
77.5°	47.7	64.2	63.3	80.8	89.9	88.1	103.7	124.8	130.3	130.3	130.3
80°	35.8	50.5	47.7	57.8	66.1	64.2	74.3	89.0	90.9	92.7	91.8
82.5°	26.6	32.1	32.1	36.7	44.0	42.2	49.6	57.8	57.8	57.8	59.7
85°	16.5	18.4	14.7	19.3	24.8	23.9	27.5	31.2	32.1	32.1	30.3
87.5°	10.1	8.3	4.6	7.3	11.0	11.0	12.8	13.8	12.8	12.8	12.8
90°	14.9	10.3	5.7	10.3	14.9	16.1	25.2	37.4	43.5	38.6	29.0
92.5°	100.8	61.8	22.9	61.8	100.8	110.5	155.3	215.0	244.9	214.6	154.2
95°	197.4	126.2	55.0	126.2	197.4	215.2	382.1	604.8	716.1	639.0	484.8
97.5°	220.7	157.8	95.0	157.8	220.7	236.4	514.7	885.9	1071.5	1022.8	925.3
100°	239.9	182.9	125.9	182.9	239.9	254.1	563.0	974.9	1180.8	1184.4	1191.5
102.5°	258.6	205.5	152.2	205.5	258.6	271.9	585.2	1002.9	1211.7	1273.8	1397.9
105°	287.0	242.0	196.9	242.0	287.0	298.3	601.5	1006.0	1208.2	1347.4	1625.7
107.5°	326.7	284.7	242.7	284.7	326.7	337.2	604.7	961.3	1139.6	1333.7	1721.9
110°	349.5	311.5	273.6	311.5	349.5	358.9	600.1	921.5	1082.3	1299.4	1733.3



TEST NUMBER: P935960

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	376.3	340.1	303.9	340.1	376.3	385.2	600.3	887.0	1030.3	1252.4	1696.5
115°	416.4	383.0	349.7	383.0	416.4	424.7	605.8	847.2	967.9	1181.8	1609.7
117.5°	455.5	425.3	395.0	425.3	455.5	463.1	617.1	822.3	924.9	1118.0	1504.2
120°	478.2	449.8	421.2	449.8	478.2	485.4	626.1	813.9	907.8	1084.2	1437.0
122.5°	504.5	475.7	447.0	475.7	504.5	511.7	639.4	809.6	894.7	1053.5	1371.2
125°	539.0	512.7	486.6	512.7	539.0	545.5	657.1	805.9	880.3	1015.2	1285.1
127.5°	571.4	545.0	518.6	545.0	571.4	578.1	674.8	803.8	868.3	984.2	1215.9
130°	592.6	564.2	535.8	564.2	592.6	599.8	687.8	805.1	863.7	966.9	1173.2
132.5°	610.5	582.0	553.5	582.0	610.5	617.6	698.3	805.9	859.7	952.0	1136.7
135°	631.6	605.8	579.8	605.8	631.6	638.2	709.7	805.1	852.8	930.2	1084.8
137.5°	658.1	632.4	606.7	632.4	658.1	664.5	726.9	810.1	851.7	917.1	1047.8
140°	676.4	652.8	629.1	652.8	676.4	682.3	737.5	811.0	847.7	904.1	1017.1
142.5°	689.9	668.1	646.2	668.1	689.9	695.4	746.2	813.8	847.7	897.3	996.5
145°	710.7	691.7	672.6	691.7	710.7	715.4	757.6	813.9	842.0	882.5	963.7
147.5°	736.0	717.5	698.8	717.5	736.0	740.7	774.4	819.5	842.0	873.9	937.7
150°	749.6	732.9	716.1	732.9	749.6	753.8	783.2	822.3	842.0	869.0	922.8
152.5°	759.2	746.5	733.8	746.5	759.2	762.4	788.9	824.3	842.0	865.0	911.1
155°	778.9	769.6	760.1	769.6	778.9	781.3	801.5	828.5	842.0	860.3	897.0
157.5°	797.8	788.8	779.6	788.8	797.8	800.1	814.1	832.7	842.0	856.2	884.7
160°	807.0	799.9	792.7	799.9	807.0	808.8	819.9	834.6	842.0	854.2	878.6
162.5°	816.6	811.2	805.9	811.2	816.6	817.9	825.9	836.7	842.0	852.3	872.9
165°	829.9	825.0	820.2	825.0	829.9	831.1	834.7	839.6	842.0	849.3	864.1
167.5°	837.9	835.7	833.4	835.7	837.9	838.5	841.5	845.7	847.7	852.5	862.2
170°	846.6	844.3	842.0	844.3	846.6	847.1	847.3	847.6	847.7	852.5	862.2
172.5°	847.6	847.0	846.6	847.0	847.6	847.7	847.7	847.7	847.7	851.5	859.1
175°	852.8	852.8	852.8	852.8	852.8	852.8	851.1	848.8	847.7	850.1	854.9
177.5°	852.8	852.8	852.8	852.8	852.8	852.8	851.5	849.8	848.9	850.8	854.6
180°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8



TEST NUMBER: P935960

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	936.1	933.4	937.1	927.0	937.1	933.4	936.1	942.6	937.1	940.7	944.4
5°	821.4	816.8	802.2	790.2	802.2	816.8	821.4	840.7	849.9	866.4	888.4
7.5°	734.2	730.6	726.9	719.6	726.9	730.6	734.2	739.8	748.9	763.6	780.1
10°	715.0	715.9	721.4	720.5	721.4	715.9	715.0	713.1	710.4	713.1	723.2
12.5°	764.5	772.8	803.1	801.2	803.1	772.8	764.5	727.8	703.0	698.5	700.3
15°	821.4	824.2	830.6	831.5	830.6	824.2	821.4	806.7	732.4	700.3	690.2
17.5°	826.9	827.9	832.4	832.4	832.4	827.9	826.9	820.5	795.7	752.6	695.7
20°	822.3	824.2	833.4	835.2	833.4	824.2	822.3	814.1	800.3	784.7	741.6
22.5°	820.5	824.2	831.5	830.6	831.5	824.2	820.5	807.7	795.7	784.7	767.3
25°	811.3	811.3	812.3	813.2	812.3	811.3	811.3	801.2	777.4	774.6	764.5
27.5°	792.1	793.9	799.4	798.5	799.4	793.9	792.1	788.4	762.7	759.9	752.6
30°	774.6	772.8	768.2	764.5	768.2	772.8	774.6	769.1	743.4	736.1	737.9
32.5°	745.3	740.7	736.1	733.3	736.1	740.7	745.3	743.4	724.2	714.1	715.9
35°	710.4	711.3	710.4	707.6	710.4	711.3	710.4	712.2	700.3	691.1	690.2
37.5°	685.6	687.4	686.5	682.9	686.5	687.4	685.6	683.8	667.3	664.5	666.3
40°	659.9	660.8	659.9	657.2	659.9	660.8	659.9	656.2	633.3	634.2	640.6
42.5°	635.1	634.2	631.5	629.6	631.5	634.2	635.1	629.6	600.3	597.5	609.4
45°	606.7	607.6	602.1	599.3	602.1	607.6	606.7	603.0	572.7	565.4	573.7
47.5°	578.2	578.2	573.7	570.9	573.7	578.2	578.2	573.7	541.5	534.2	538.8
50°	548.0	547.0	540.6	539.7	540.6	547.0	548.0	545.2	511.2	504.8	504.8
52.5°	513.1	513.1	514.0	515.8	514.0	513.1	513.1	514.0	483.7	477.3	475.5
55°	482.8	483.7	490.1	492.0	490.1	483.7	482.8	482.8	455.3	448.8	445.2
57.5°	451.6	451.6	456.2	456.2	456.2	451.6	451.6	449.8	423.1	417.6	415.8
60°	415.8	417.6	421.3	420.4	421.3	417.6	415.8	414.0	391.0	387.4	380.9
62.5°	378.2	380.0	380.9	379.1	380.9	380.0	378.2	372.7	358.9	356.2	347.9
65°	338.7	340.6	341.5	339.6	341.5	340.6	338.7	336.0	325.8	321.2	313.9
67.5°	298.3	297.3	296.4	300.1	296.4	297.3	298.3	294.6	288.2	284.5	274.4
70°	257.0	257.0	256.0	257.9	256.0	257.0	257.0	254.2	250.5	247.8	238.6
72.5°	212.9	212.0	215.7	212.9	215.7	212.0	212.9	212.0	210.2	207.4	198.2
75°	169.8	171.6	169.8	172.5	169.8	171.6	169.8	170.7	169.8	167.9	161.5
77.5°	129.4	131.2	129.4	129.4	129.4	131.2	129.4	130.3	130.3	130.3	124.8
80°	91.8	90.9	90.9	89.9	90.9	90.9	91.8	91.8	92.7	90.9	89.0
82.5°	58.7	57.8	57.8	59.7	57.8	57.8	58.7	59.7	57.8	57.8	57.8
85°	32.1	33.0	31.2	31.2	31.2	33.0	32.1	30.3	32.1	32.1	31.2
87.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.9	12.8	12.8	12.8	13.8
90°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	29.0	38.6	43.5	37.4
92.5°	108.7	104.4	87.1	69.8	87.1	104.4	108.7	154.2	214.6	244.9	215.0
95°	369.2	356.1	303.7	251.3	303.7	356.1	369.2	484.8	639.0	716.1	604.8
97.5°	852.3	827.3	727.6	627.9	727.6	827.3	852.3	925.3	1022.8	1071.5	885.9
100°	1196.9	1167.1	1048.4	929.5	1048.4	1167.1	1196.9	1191.5	1184.4	1180.8	974.9
102.5°	1491.1	1465.7	1363.9	1262.1	1363.9	1465.7	1491.1	1397.9	1273.8	1211.7	1002.9
105°	1834.5	1820.8	1766.1	1711.4	1766.1	1820.8	1834.5	1625.7	1347.4	1208.2	1006.0
107.5°	2013.1	2016.4	2029.6	2042.8	2029.6	2016.4	2013.1	1721.9	1333.7	1139.6	961.3
110°	2058.8	2073.1	2130.1	2187.1	2130.1	2073.1	2058.8	1733.3	1299.4	1082.3	921.5



TEST NUMBER: P935960

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2029.7	2051.5	2139.1	2226.5	2139.1	2051.5	2029.7	1696.5	1252.4	1030.3	887.0
115°	1930.6	1961.0	2082.3	2203.7	2082.3	1961.0	1930.6	1609.7	1181.8	967.9	847.2
117.5°	1793.8	1827.5	1962.0	2096.6	1962.0	1827.5	1793.8	1504.2	1118.0	924.9	822.3
120°	1701.7	1734.4	1865.1	1995.9	1865.1	1734.4	1701.7	1437.0	1084.2	907.8	813.9
122.5°	1609.5	1641.8	1770.8	1899.7	1770.8	1641.8	1609.5	1371.2	1053.5	894.7	809.6
125°	1487.6	1517.3	1636.1	1754.9	1636.1	1517.3	1487.6	1285.1	1015.2	880.3	805.9
127.5°	1389.8	1414.8	1515.0	1615.2	1515.0	1414.8	1389.8	1215.9	984.2	868.3	803.8
130°	1327.9	1351.0	1443.6	1536.2	1443.6	1351.0	1327.9	1173.2	966.9	863.7	805.1
132.5°	1275.2	1296.0	1378.8	1461.8	1378.8	1296.0	1275.2	1136.7	952.0	859.7	805.9
135°	1200.8	1218.7	1290.2	1361.7	1290.2	1218.7	1200.8	1084.8	930.2	852.8	805.1
137.5°	1145.9	1160.5	1219.1	1277.5	1219.1	1160.5	1145.9	1047.8	917.1	851.7	810.1
140°	1101.8	1115.5	1170.2	1224.8	1170.2	1115.5	1101.8	1017.1	904.1	847.7	811.0
142.5°	1071.0	1082.7	1129.8	1176.8	1129.8	1082.7	1071.0	996.5	897.3	847.7	813.8
145°	1024.5	1033.4	1069.1	1104.7	1069.1	1033.4	1024.5	963.7	882.5	842.0	813.9
147.5°	985.6	992.9	1022.5	1052.0	1022.5	992.9	985.6	937.7	873.9	842.0	819.5
150°	963.3	969.3	993.2	1017.1	993.2	969.3	963.3	922.8	869.0	842.0	822.3
152.5°	945.6	950.1	968.2	986.2	968.2	950.1	945.6	911.1	865.0	842.0	824.3
155°	924.4	927.4	939.4	951.3	939.4	927.4	924.4	897.0	860.3	842.0	828.5
157.5°	906.0	908.2	916.5	924.9	916.5	908.2	906.0	884.7	856.2	842.0	832.7
160°	896.9	898.1	902.9	907.8	902.9	898.1	896.9	878.6	854.2	842.0	834.6
162.5°	888.3	889.4	894.0	898.6	894.0	889.4	888.3	872.9	852.3	842.0	836.7
165°	875.1	876.3	881.2	886.0	881.2	876.3	875.1	864.1	849.3	842.0	839.6
167.5°	869.4	870.0	872.0	874.0	872.0	870.0	869.4	862.2	852.5	847.7	845.7
170°	869.4	869.4	869.4	869.4	869.4	869.4	869.4	862.2	852.5	847.7	847.6
172.5°	864.8	864.4	862.6	860.9	862.6	864.4	864.8	859.1	851.5	847.7	847.7
175°	858.6	858.6	858.6	858.6	858.6	858.6	858.6	854.9	850.1	847.7	848.8
177.5°	857.4	856.9	854.8	852.8	854.8	856.9	857.4	854.6	850.8	848.9	849.8
180°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	970.1	970.1	970.1	970.1	970.1
2.5°	958.2	962.8	965.5	969.2	978.4
5°	921.5	938.9	944.4	958.2	974.7
7.5°	840.7	893.9	908.6	941.6	967.3
10°	762.7	815.9	841.6	919.6	958.2
12.5°	723.2	754.4	771.9	881.1	945.3
15°	698.5	720.5	733.3	829.7	930.6
17.5°	679.2	694.8	704.0	779.2	910.4
20°	667.3	674.6	682.9	742.5	887.5
22.5°	659.0	654.4	660.8	716.8	856.3
25°	653.5	636.1	643.4	696.6	819.6
27.5°	658.1	619.5	622.3	678.3	781.1
30°	659.0	599.3	600.3	659.0	737.9
32.5°	652.6	578.2	579.2	635.1	689.3
35°	637.0	553.5	552.5	607.6	623.2
37.5°	615.9	526.8	526.8	577.3	550.7
40°	590.2	500.2	503.0	537.9	486.5
42.5°	559.0	471.8	475.5	485.6	438.7
45°	525.0	444.3	447.0	410.3	402.0
47.5°	487.4	415.8	416.7	340.6	390.1
50°	442.4	386.4	382.8	291.8	389.2
52.5°	403.0	354.3	343.3	264.3	353.4
55°	364.4	320.3	296.4	243.2	327.7
57.5°	330.5	276.2	253.3	218.4	322.1
60°	299.2	233.1	215.7	191.8	295.5
62.5°	273.5	201.0	197.3	173.4	268.0
65°	245.9	179.0	178.0	157.8	227.6
67.5°	219.3	164.3	163.3	143.2	173.4
70°	190.9	148.7	146.8	127.6	128.5
72.5°	161.5	131.2	129.4	114.7	106.5
75°	132.1	111.0	110.1	100.0	86.3
77.5°	103.7	88.1	89.9	80.8	63.3
80°	74.3	64.2	66.1	57.8	47.7
82.5°	49.6	42.2	44.0	36.7	32.1
85°	27.5	23.9	24.8	19.3	14.7
87.5°	12.8	11.0	11.0	7.3	4.6
90°	25.2	16.1	14.9	10.3	5.7
92.5°	155.3	110.5	100.8	61.8	22.9
95°	382.1	215.2	197.4	126.2	55.0
97.5°	514.7	236.4	220.7	157.8	95.0
100°	563.0	254.1	239.9	182.9	125.9
102.5°	585.2	271.9	258.6	205.5	152.2
105°	601.5	298.3	287.0	242.0	196.9
107.5°	604.7	337.2	326.7	284.7	242.7
110°	600.1	358.9	349.5	311.5	273.6



TEST NUMBER: P935960

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	600.3	385.2	376.3	340.1	303.9
115°	605.8	424.7	416.4	383.0	349.7
117.5°	617.1	463.1	455.5	425.3	395.0
120°	626.1	485.4	478.2	449.8	421.2
122.5°	639.4	511.7	504.5	475.7	447.0
125°	657.1	545.5	539.0	512.7	486.6
127.5°	674.8	578.1	571.4	545.0	518.6
130°	687.8	599.8	592.6	564.2	535.8
132.5°	698.3	617.6	610.5	582.0	553.5
135°	709.7	638.2	631.6	605.8	579.8
137.5°	726.9	664.5	658.1	632.4	606.7
140°	737.5	682.3	676.4	652.8	629.1
142.5°	746.2	695.4	689.9	668.1	646.2
145°	757.6	715.4	710.7	691.7	672.6
147.5°	774.4	740.7	736.0	717.5	698.8
150°	783.2	753.8	749.6	732.9	716.1
152.5°	788.9	762.4	759.2	746.5	733.8
155°	801.5	781.3	778.9	769.6	760.1
157.5°	814.1	800.1	797.8	788.8	779.6
160°	819.9	808.8	807.0	799.9	792.7
162.5°	825.9	817.9	816.6	811.2	805.9
165°	834.7	831.1	829.9	825.0	820.2
167.5°	841.5	838.5	837.9	835.7	833.4
170°	847.3	847.1	846.6	844.3	842.0
172.5°	847.7	847.7	847.6	847.0	846.6
175°	851.1	852.8	852.8	852.8	852.8
177.5°	851.5	852.8	852.8	852.8	852.8
180°	852.8	852.8	852.8	852.8	852.8



TEST NUMBER: P935960
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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	10.39	11.10	11.49	12.20	13.72	13.19	13.90	14.29	15.00	16.52
	3H	10.85	11.49	11.97	12.60	14.13	14.51	15.15	15.62	16.26	17.79
	4H	11.04	11.65	12.16	12.76	14.29	14.94	15.55	16.06	16.66	18.19
	6H	11.15	11.71	12.28	12.82	14.37	15.21	15.77	16.34	16.88	18.43
	8H	11.15	11.68	12.28	12.81	14.35	15.28	15.81	16.41	16.93	18.48
	12H	11.11	11.62	12.25	12.74	14.30	15.31	15.81	16.44	16.93	18.50
4H	2H	11.40	12.00	12.52	13.11	14.65	13.58	14.19	14.71	15.30	16.83
	3H	12.41	12.91	13.54	14.05	15.60	15.06	15.57	16.20	16.70	18.25
	4H	12.68	13.14	13.82	14.27	15.84	15.58	16.04	16.71	17.17	18.74
	6H	12.80	13.19	13.94	14.34	15.90	15.92	16.32	17.07	17.47	19.03
	8H	12.80	13.17	13.94	14.31	15.89	16.02	16.40	17.17	17.53	19.11
	12H	12.76	13.09	13.92	14.25	15.83	16.07	16.40	17.23	17.56	19.14
8H	4H	13.11	13.49	14.26	14.63	16.20	15.69	16.06	16.83	17.20	18.78
	6H	13.37	13.68	14.53	14.86	16.43	16.11	16.42	17.28	17.60	19.17
	8H	13.41	13.68	14.58	14.84	16.43	16.26	16.52	17.43	17.68	19.28
	12H	13.39	13.62	14.56	14.78	16.41	16.34	16.58	17.52	17.74	19.36
12H	4H	13.11	13.45	14.27	14.60	16.18	15.65	15.98	16.81	17.13	18.72
	6H	13.43	13.70	14.60	14.86	16.45	16.11	16.38	17.28	17.54	19.13
	8H	13.49	13.72	14.66	14.88	16.51	16.26	16.49	17.43	17.65	19.28