

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: P935931

Luminaire Tested: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935931
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-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

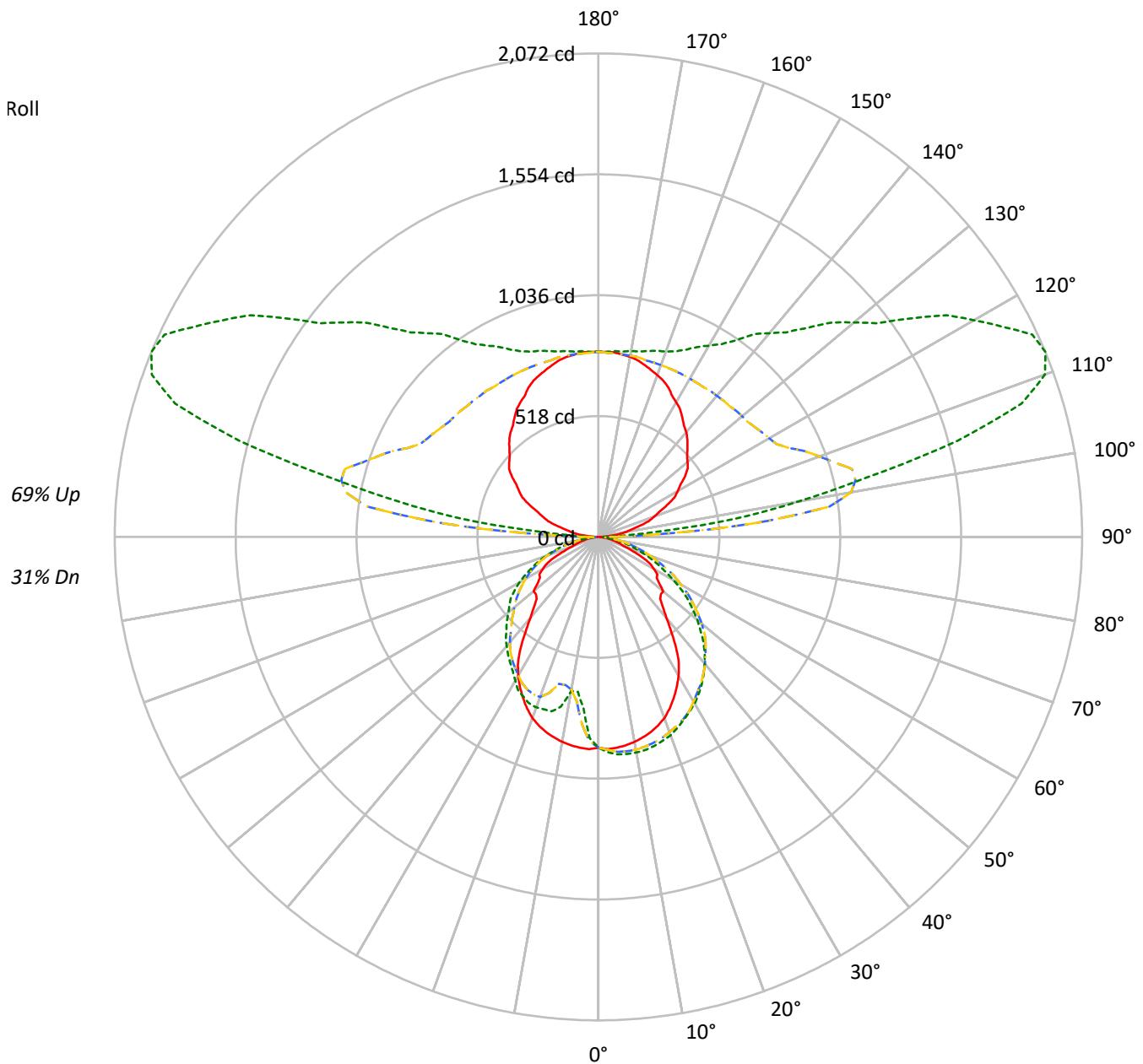
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7489.8 lumens
Efficiency: N/A
Efficacy: 117.8 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: P935931
CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

Luminous Intensity Polar Plot



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

TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8378	8378	8378	8378
5°	8432	8458	8432	6650
10°	8366	8332	8366	5956
15°	8266	8151	8266	6806
20°	8083	7937	8083	6820
25°	7720	7625	7720	6675
30°	7254	7366	7254	6359
35°	6457	7039	6457	6010
40°	5372	6653	5372	5746
45°	4791	6202	4791	5443
50°	5077	5664	5077	5139
55°	4764	5084	4764	4963
60°	4892	4318	4892	4546
65°	4414	3568	4414	3990
70°	3036	2843	3036	3344
75°	2633	2102	2633	2518
80°	2078	1390	2078	1513
85°	1134	737	1134	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7356 cd/sqm



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.1
10°-20°	231.4	3.1
20°-30°	357.7	4.8
30°-40°	427.0	5.7
40°-50°	429.6	5.7
50°-60°	373.8	5.0
60°-70°	265.0	3.5
70°-80°	140.2	1.9
80°-90°	37.9	0.5
90°-100°	386.9	5.2
100°-110°	1017.2	13.6
110°-120°	1054.8	14.1
120°-130°	846.0	11.3
130°-140°	663.8	8.9
140°-150°	509.5	6.8
150°-160°	367.0	4.9
160°-170°	224.5	3.0
170°-180°	75.9	1.0
0°-30°	670.6	9.0
0°-40°	1097.7	14.7
0°-60°	1901.0	25.4
0°-90°	2344.2	31.3
90°-120°	2458.9	32.8
90°-150°	4478.3	59.8
90°-180°	5146.0	68.7
0°-180°	7489.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	903	903	903	903	903	
5°	907	935	907	736	907	86
15°	866	927	866	774	866	244
25°	763	864	763	757	763	350
35°	580	771	580	659	580	359
45°	374	636	374	558	374	300
55°	305	469	305	458	305	280
65°	212	283	212	316	212	202
75°	80	134	80	161	80	84
85°	14	34	14	29	14	18
90°	5	20	5	20	5	5
95°	51	234	51	234	51	57
105°	183	1593	183	1593	183	194
115°	326	2051	326	2051	326	321
125°	453	1633	453	1633	453	402
135°	540	1267	540	1267	540	418
145°	626	1028	626	1028	626	392
155°	708	885	708	885	708	325
165°	763	825	763	825	763	215
175°	794	799	794	799	794	75
180°	794	794	794	794	794	



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	910.6	910.6	915.8	917.5	917.5	914.9	912.4	914.9	922.6	925.2	924.3
5°	907.2	914.1	923.5	925.2	926.9	926.0	924.3	926.0	934.6	936.3	937.1
7.5°	900.3	913.2	925.2	927.8	930.3	927.8	926.9	928.6	937.1	938.9	938.9
10°	891.8	909.7	923.5	925.2	927.8	925.2	925.2	928.6	937.1	938.9	939.7
12.5°	879.8	904.6	917.5	919.2	922.6	921.8	920.9	924.3	932.9	934.6	934.6
15°	866.2	895.2	907.2	908.9	914.9	913.2	913.2	916.7	926.0	928.6	927.8
17.5°	847.4	883.3	896.9	899.5	903.8	902.9	903.8	907.2	915.8	917.5	918.4
20°	826.0	867.0	883.3	885.8	890.1	890.1	890.1	894.4	902.9	906.3	906.3
22.5°	797.0	849.9	867.0	868.7	873.9	873.9	875.6	881.5	889.2	890.1	890.1
25°	762.8	831.2	845.7	850.8	855.9	858.5	861.0	864.5	867.0	866.2	867.0
27.5°	726.9	807.2	826.0	829.4	836.3	838.8	842.3	843.1	844.0	846.5	844.8
30°	686.8	773.9	802.1	805.5	816.6	818.3	814.9	816.6	820.9	822.6	824.3
32.5°	641.5	724.4	777.3	785.0	795.3	790.2	789.3	791.9	798.7	798.7	800.4
35°	580.0	686.0	754.3	761.1	768.8	762.8	766.2	767.1	771.4	773.9	773.1
37.5°	512.6	652.6	730.4	735.5	741.5	733.8	738.9	741.5	744.9	743.2	743.2
40°	452.8	600.5	702.2	705.6	710.7	704.7	709.9	711.6	713.3	711.6	710.7
42.5°	408.4	543.3	672.3	676.6	673.1	677.4	679.1	682.5	680.0	676.6	676.6
45°	374.2	527.9	639.8	645.0	639.8	646.7	649.2	649.2	641.5	639.8	639.0
47.5°	363.1	497.2	607.4	607.4	604.8	613.3	617.6	611.6	604.0	601.4	601.4
50°	362.2	463.0	563.0	559.5	571.5	581.7	577.5	571.5	565.5	556.1	556.1
52.5°	328.9	421.2	505.7	518.5	537.3	543.3	536.5	530.5	520.2	516.0	512.6
55°	305.0	377.6	453.6	479.3	498.9	506.6	493.8	487.8	472.4	469.9	468.1
57.5°	299.8	314.4	405.8	438.3	462.2	461.3	453.6	442.5	429.7	427.1	426.3
60°	275.0	227.2	354.5	393.0	417.8	415.2	408.4	398.1	386.2	384.4	382.7
62.5°	249.4	164.8	296.4	340.0	375.0	374.2	368.2	352.8	344.3	340.0	336.6
65°	211.8	138.4	211.0	282.7	333.2	334.9	322.1	311.0	301.5	296.4	295.5
67.5°	161.4	112.7	142.6	235.7	293.0	291.3	275.0	269.9	257.9	255.4	250.3
70°	119.6	75.2	99.1	191.3	253.7	249.4	236.6	230.6	219.5	213.5	210.1
72.5°	99.1	60.6	72.6	148.6	213.5	208.4	197.3	190.5	181.1	176.0	172.5
75°	80.3	64.1	55.5	110.2	173.4	170.0	159.7	152.9	145.2	138.4	139.2
77.5°	58.9	59.8	44.4	81.1	137.5	132.4	126.4	117.9	114.5	107.6	107.6
80°	44.4	47.0	33.3	55.5	99.1	99.1	94.0	88.0	82.0	78.6	78.6
82.5°	29.9	29.9	24.8	35.0	67.5	64.9	61.5	59.8	56.4	54.7	54.7
85°	13.7	17.1	15.4	21.4	36.7	38.4	38.4	36.7	35.9	34.2	35.0
87.5°	4.3	7.7	9.4	12.0	18.8	19.6	20.5	20.5	20.5	21.4	21.4
90°	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0	20.2	20.2
92.5°	21.3	57.5	93.8	102.8	144.5	200.1	228.0	199.8	143.5	101.2	97.2
95°	51.2	117.4	183.7	200.3	355.7	562.9	666.5	594.7	451.2	343.6	331.4
97.5°	88.4	146.9	205.4	220.0	479.1	824.6	997.3	951.9	861.2	793.2	770.0
100°	117.2	170.2	223.3	236.5	524.0	907.3	1099.0	1102.3	1109.0	1114.0	1086.3
102.5°	141.7	191.2	240.7	253.1	544.7	933.4	1127.8	1185.5	1301.1	1387.8	1364.1
105°	183.3	225.2	267.1	277.6	559.9	936.3	1124.5	1254.0	1513.1	1707.4	1694.7
107.5°	225.9	265.0	304.1	313.8	562.8	894.7	1060.7	1241.3	1602.6	1873.6	1876.7
110°	254.6	289.9	325.3	334.0	558.5	857.7	1007.4	1209.4	1613.3	1916.2	1929.5



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	282.9	316.5	350.2	358.6	558.7	825.5	958.9	1165.6	1579.0	1889.1	1909.4
115°	325.5	356.5	387.5	395.3	563.8	788.5	900.8	1099.9	1498.2	1796.9	1825.2
117.5°	367.6	395.8	424.0	431.0	574.3	765.4	860.9	1040.6	1400.0	1669.6	1700.9
120°	392.0	418.6	445.1	451.7	582.8	757.5	844.9	1009.1	1337.5	1583.8	1614.2
122.5°	416.0	442.8	469.6	476.3	595.1	753.5	832.7	980.5	1276.2	1498.1	1528.0
125°	452.9	477.2	501.6	507.7	611.6	750.1	819.4	944.9	1196.1	1384.5	1412.2
127.5°	482.7	507.3	531.9	538.0	628.0	748.1	808.2	916.1	1131.7	1293.5	1316.8
130°	498.6	525.1	551.6	558.3	640.2	749.3	803.9	899.9	1091.9	1235.9	1257.4
132.5°	515.1	541.7	568.2	574.8	649.9	750.1	800.1	886.1	1058.0	1186.9	1206.2
135°	539.6	563.8	587.9	594.0	660.6	749.3	793.7	865.7	1009.7	1117.6	1134.3
137.5°	564.7	588.6	612.5	618.5	676.6	754.0	792.7	853.5	975.2	1066.5	1080.1
140°	585.5	607.5	629.6	635.0	686.4	754.8	789.0	841.5	946.6	1025.5	1038.2
142.5°	601.5	621.8	642.1	647.3	694.5	757.4	789.0	835.2	927.5	996.8	1007.7
145°	626.0	643.8	661.4	665.9	705.2	757.5	783.7	821.4	896.9	953.5	961.8
147.5°	650.4	667.8	685.0	689.4	720.8	762.7	783.7	813.4	872.7	917.3	924.2
150°	666.5	682.1	697.7	701.6	728.9	765.4	783.7	808.8	858.9	896.6	902.1
152.5°	683.0	694.8	706.6	709.6	734.3	767.2	783.7	805.1	848.0	880.1	884.3
155°	707.5	716.3	725.0	727.2	746.0	771.1	783.7	800.7	834.8	860.4	863.2
157.5°	725.6	734.1	742.6	744.7	757.7	775.0	783.7	796.9	823.4	843.3	845.2
160°	737.8	744.5	751.1	752.7	763.1	776.8	783.7	795.0	817.7	834.7	835.8
162.5°	750.1	755.0	760.0	761.3	768.7	778.7	783.7	793.2	812.4	826.8	827.8
165°	763.4	767.9	772.4	773.5	776.9	781.4	783.7	790.5	804.2	814.5	815.6
167.5°	775.6	777.8	779.9	780.4	783.2	787.1	789.0	793.5	802.5	809.2	809.7
170°	783.7	785.8	787.9	788.4	788.6	788.9	789.0	793.5	802.5	809.2	809.2
172.5°	787.9	788.4	788.9	789.0	789.0	789.0	789.0	792.5	799.6	804.9	804.5
175°	793.7	793.7	793.7	793.7	792.1	790.0	789.0	791.2	795.7	799.1	799.1
177.5°	793.7	793.7	793.7	793.7	792.5	790.9	790.1	791.9	795.4	798.0	797.5
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	926.0	923.5	926.0	924.3	925.2	922.6	914.9	912.4	914.9	917.5	917.5
5°	937.1	935.4	937.1	937.1	936.3	934.6	926.0	924.3	926.0	926.9	925.2
7.5°	940.6	938.0	940.6	938.9	938.9	937.1	928.6	926.9	927.8	930.3	927.8
10°	940.6	938.0	940.6	939.7	938.9	937.1	928.6	925.2	925.2	927.8	925.2
12.5°	936.3	934.6	936.3	934.6	934.6	932.9	924.3	920.9	921.8	922.6	919.2
15°	929.5	926.9	929.5	927.8	928.6	926.0	916.7	913.2	913.2	914.9	908.9
17.5°	919.2	915.8	919.2	918.4	917.5	915.8	907.2	903.8	902.9	903.8	899.5
20°	907.2	904.6	907.2	906.3	906.3	902.9	894.4	890.1	890.1	890.1	885.8
22.5°	888.4	885.8	888.4	890.1	890.1	889.2	881.5	875.6	873.9	873.9	868.7
25°	867.0	864.5	867.0	867.0	866.2	867.0	864.5	861.0	858.5	855.9	850.8
27.5°	846.5	844.8	846.5	844.8	846.5	844.0	843.1	842.3	838.8	836.3	829.4
30°	826.0	824.3	826.0	824.3	822.6	820.9	816.6	814.9	818.3	816.6	805.5
32.5°	800.4	798.7	800.4	800.4	798.7	798.7	791.9	789.3	790.2	795.3	785.0
35°	773.9	771.4	773.9	773.1	773.9	771.4	767.1	766.2	762.8	768.8	761.1
37.5°	743.2	740.6	743.2	743.2	743.2	744.9	741.5	738.9	733.8	741.5	735.5
40°	711.6	708.2	711.6	710.7	711.6	713.3	711.6	709.9	704.7	710.7	705.6
42.5°	675.7	674.8	675.7	676.6	676.6	680.0	682.5	679.1	677.4	673.1	676.6
45°	637.3	635.6	637.3	639.0	639.8	641.5	649.2	649.2	646.7	639.8	645.0
47.5°	596.3	592.0	596.3	601.4	601.4	604.0	611.6	617.6	613.3	604.8	607.4
50°	552.7	553.6	552.7	556.1	556.1	565.5	571.5	577.5	581.7	571.5	559.5
52.5°	510.0	509.1	510.0	512.6	516.0	520.2	530.5	536.5	543.3	537.3	518.5
55°	467.3	469.0	467.3	468.1	469.9	472.4	487.8	493.8	506.6	498.9	479.3
57.5°	424.6	422.0	424.6	426.3	427.1	429.7	442.5	453.6	461.3	462.2	438.3
60°	375.0	371.6	375.0	382.7	384.4	386.2	398.1	408.4	415.2	417.8	393.0
62.5°	331.5	325.5	331.5	336.6	340.0	344.3	352.8	368.2	374.2	375.0	340.0
65°	285.3	282.7	285.3	295.5	296.4	301.5	311.0	322.1	334.9	333.2	282.7
67.5°	243.4	243.4	243.4	250.3	255.4	257.9	269.9	275.0	291.3	293.0	235.7
70°	205.0	204.1	205.0	210.1	213.5	219.5	230.6	236.6	249.4	253.7	191.3
72.5°	168.3	167.4	168.3	172.5	176.0	181.1	190.5	197.3	208.4	213.5	148.6
75°	135.8	134.1	135.8	139.2	138.4	145.2	152.9	159.7	170.0	173.4	110.2
77.5°	104.2	104.2	104.2	107.6	107.6	114.5	117.9	126.4	132.4	137.5	81.1
80°	77.7	76.9	77.7	78.6	78.6	82.0	88.0	94.0	99.1	99.1	55.5
82.5°	54.7	53.0	54.7	54.7	54.7	56.4	59.8	61.5	64.9	67.5	35.0
85°	34.2	34.2	34.2	35.0	34.2	35.9	36.7	38.4	38.4	36.7	21.4
87.5°	22.2	21.4	22.2	21.4	21.4	20.5	20.5	20.5	19.6	18.8	12.0
90°	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8	23.5	14.9
92.5°	81.1	65.0	81.1	97.2	101.2	143.5	199.8	228.0	200.1	144.5	102.8
95°	282.6	233.9	282.6	331.4	343.6	451.2	594.7	666.5	562.9	355.7	200.3
97.5°	677.2	584.4	677.2	770.0	793.2	861.2	951.9	997.3	824.6	479.1	220.0
100°	975.8	865.1	975.8	1086.3	1114.0	1109.0	1102.3	1099.0	907.3	524.0	236.5
102.5°	1269.4	1174.7	1269.4	1364.1	1387.8	1301.1	1185.5	1127.8	933.4	544.7	253.1
105°	1643.8	1592.9	1643.8	1694.7	1707.4	1513.1	1254.0	1124.5	936.3	559.9	277.6
107.5°	1889.0	1901.3	1889.0	1876.7	1873.6	1602.6	1241.3	1060.7	894.7	562.8	313.8
110°	1982.5	2035.6	1982.5	1929.5	1916.2	1613.3	1209.4	1007.4	857.7	558.5	334.0



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1990.9	2072.3	1990.9	1909.4	1889.1	1579.0	1165.6	958.9	825.5	558.7	358.6
115°	1938.1	2051.0	1938.1	1825.2	1796.9	1498.2	1099.9	900.8	788.5	563.8	395.3
117.5°	1826.1	1951.3	1826.1	1700.9	1669.6	1400.0	1040.6	860.9	765.4	574.3	431.0
120°	1735.9	1857.6	1735.9	1614.2	1583.8	1337.5	1009.1	844.9	757.5	582.8	451.7
122.5°	1648.1	1768.1	1648.1	1528.0	1498.1	1276.2	980.5	832.7	753.5	595.1	476.3
125°	1522.7	1633.3	1522.7	1412.2	1384.5	1196.1	944.9	819.4	750.1	611.6	507.7
127.5°	1410.1	1503.4	1410.1	1316.8	1293.5	1131.7	916.1	808.2	748.1	628.0	538.0
130°	1343.6	1429.8	1343.6	1257.4	1235.9	1091.9	899.9	803.9	749.3	640.2	558.3
132.5°	1283.3	1360.5	1283.3	1206.2	1186.9	1058.0	886.1	800.1	750.1	649.9	574.8
135°	1200.8	1267.4	1200.8	1134.3	1117.6	1009.7	865.7	793.7	749.3	660.6	594.0
137.5°	1134.6	1189.0	1134.6	1080.1	1066.5	975.2	853.5	792.7	754.0	676.6	618.5
140°	1089.1	1140.0	1089.1	1038.2	1025.5	946.6	841.5	789.0	754.8	686.4	635.0
142.5°	1051.5	1095.2	1051.5	1007.7	996.8	927.5	835.2	789.0	757.4	694.5	647.3
145°	995.1	1028.2	995.1	961.8	953.5	896.9	821.4	783.7	757.5	705.2	665.9
147.5°	951.7	979.2	951.7	924.2	917.3	872.7	813.4	783.7	762.7	720.8	689.4
150°	924.4	946.6	924.4	902.1	896.6	858.9	808.8	783.7	765.4	728.9	701.6
152.5°	901.1	917.8	901.1	884.3	880.1	848.0	805.1	783.7	767.2	734.3	709.6
155°	874.3	885.4	874.3	863.2	860.4	834.8	800.7	783.7	771.1	746.0	727.2
157.5°	853.0	860.9	853.0	845.2	843.3	823.4	796.9	783.7	775.0	757.7	744.7
160°	840.4	844.9	840.4	835.8	834.7	817.7	795.0	783.7	776.8	763.1	752.7
162.5°	832.1	836.4	832.1	827.8	826.8	812.4	793.2	783.7	778.7	768.7	761.3
165°	820.1	824.7	820.1	815.6	814.5	804.2	790.5	783.7	781.4	776.9	773.5
167.5°	811.6	813.5	811.6	809.7	809.2	802.5	793.5	789.0	787.1	783.2	780.4
170°	809.2	809.2	809.2	809.2	809.2	802.5	793.5	789.0	788.9	788.6	788.4
172.5°	802.9	801.3	802.9	804.5	804.9	799.6	792.5	789.0	789.0	789.0	789.0
175°	799.1	799.1	799.1	799.1	799.1	795.7	791.2	789.0	790.0	792.1	793.7
177.5°	795.6	793.7	795.6	797.5	798.0	795.4	791.9	790.1	790.9	792.5	793.7
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	915.8	910.6	910.6	902.0	898.6	896.1	891.8	879.0	875.6	872.2	877.3
5°	923.5	914.1	907.2	891.8	879.0	873.9	857.6	826.9	806.4	791.0	782.5
7.5°	925.2	913.2	900.3	876.4	845.7	832.0	782.5	726.1	710.7	697.1	688.5
10°	923.5	909.7	891.8	855.9	783.3	759.4	709.9	673.1	663.7	661.2	663.7
12.5°	917.5	904.6	879.8	820.0	718.4	702.2	673.1	651.8	650.1	654.3	677.4
15°	907.2	895.2	866.2	772.2	682.5	670.6	650.1	642.4	651.8	681.7	750.9
17.5°	896.9	883.3	847.4	725.2	655.2	646.7	632.1	647.5	700.5	740.6	763.7
20°	883.3	867.0	826.0	691.1	635.6	627.9	621.0	690.2	730.4	744.9	757.7
22.5°	867.0	849.9	797.0	667.2	615.1	609.1	613.3	714.1	730.4	740.6	751.7
25°	845.7	831.2	762.8	648.4	598.8	592.0	608.2	711.6	721.0	723.5	745.7
27.5°	826.0	807.2	726.9	631.3	579.2	576.6	612.5	700.5	707.3	709.9	733.8
30°	802.1	773.9	686.8	613.3	558.7	557.8	613.3	686.8	685.1	691.9	715.8
32.5°	777.3	724.4	641.5	591.1	539.0	538.2	607.4	666.3	664.6	674.0	691.9
35°	754.3	686.0	580.0	565.5	514.3	515.1	592.9	642.4	643.2	651.8	662.9
37.5°	730.4	652.6	512.6	537.3	490.4	490.4	573.2	620.2	618.5	621.0	636.4
40°	702.2	600.5	452.8	500.6	468.1	465.6	549.3	596.3	590.3	589.4	610.8
42.5°	672.3	543.3	408.4	451.9	442.5	439.1	520.2	567.2	556.1	558.7	586.0
45°	639.8	527.9	374.2	381.9	416.0	413.5	488.6	533.9	526.2	533.1	561.2
47.5°	607.4	497.2	363.1	317.0	387.9	387.0	453.6	501.5	497.2	504.0	533.9
50°	563.0	463.0	362.2	271.6	356.3	359.7	411.8	469.9	469.9	475.8	507.4
52.5°	505.7	421.2	328.9	246.0	319.5	329.8	375.0	442.5	444.2	450.2	478.4
55°	453.6	377.6	305.0	226.3	275.9	298.1	339.2	414.3	417.8	423.7	449.4
57.5°	405.8	314.4	299.8	203.3	235.7	257.1	307.6	387.0	388.7	393.8	418.6
60°	354.5	227.2	275.0	178.5	200.7	216.9	278.4	354.5	360.5	363.9	385.3
62.5°	296.4	164.8	249.4	161.4	183.6	187.1	254.5	323.8	331.5	334.0	346.9
65°	211.0	138.4	211.8	146.9	165.7	166.6	228.9	292.1	298.9	303.2	312.7
67.5°	142.6	112.7	161.4	133.2	152.0	152.9	204.1	255.4	264.8	268.2	274.2
70°	99.1	75.2	119.6	118.7	136.7	138.4	177.7	222.1	230.6	233.2	236.6
72.5°	72.6	60.6	99.1	106.8	120.4	122.1	150.3	184.5	193.0	195.6	197.3
75°	55.5	64.1	80.3	93.1	102.5	103.3	123.0	150.3	156.3	158.0	158.9
77.5°	44.4	59.8	58.9	75.2	83.7	82.0	96.5	116.2	121.3	121.3	121.3
80°	33.3	47.0	44.4	53.8	61.5	59.8	69.2	82.9	84.6	86.3	85.4
82.5°	24.8	29.9	29.9	34.2	41.0	39.3	46.1	53.8	53.8	53.8	55.5
85°	15.4	17.1	13.7	17.9	23.1	22.2	25.6	29.0	29.9	29.9	28.2
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	12.0	12.8	12.0	12.0	12.0
90°	13.8	9.6	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0
92.5°	93.8	57.5	21.3	57.5	93.8	102.8	144.5	200.1	228.0	199.8	143.5
95°	183.7	117.4	51.2	117.4	183.7	200.3	355.7	562.9	666.5	594.7	451.2
97.5°	205.4	146.9	88.4	146.9	205.4	220.0	479.1	824.6	997.3	951.9	861.2
100°	223.3	170.2	117.2	170.2	223.3	236.5	524.0	907.3	1099.0	1102.3	1109.0
102.5°	240.7	191.2	141.7	191.2	240.7	253.1	544.7	933.4	1127.8	1185.5	1301.1
105°	267.1	225.2	183.3	225.2	267.1	277.6	559.9	936.3	1124.5	1254.0	1513.1
107.5°	304.1	265.0	225.9	265.0	304.1	313.8	562.8	894.7	1060.7	1241.3	1602.6
110°	325.3	289.9	254.6	289.9	325.3	334.0	558.5	857.7	1007.4	1209.4	1613.3



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	350.2	316.5	282.9	316.5	350.2	358.6	558.7	825.5	958.9	1165.6	1579.0
115°	387.5	356.5	325.5	356.5	387.5	395.3	563.8	788.5	900.8	1099.9	1498.2
117.5°	424.0	395.8	367.6	395.8	424.0	431.0	574.3	765.4	860.9	1040.6	1400.0
120°	445.1	418.6	392.0	418.6	445.1	451.7	582.8	757.5	844.9	1009.1	1337.5
122.5°	469.6	442.8	416.0	442.8	469.6	476.3	595.1	753.5	832.7	980.5	1276.2
125°	501.6	477.2	452.9	477.2	501.6	507.7	611.6	750.1	819.4	944.9	1196.1
127.5°	531.9	507.3	482.7	507.3	531.9	538.0	628.0	748.1	808.2	916.1	1131.7
130°	551.6	525.1	498.6	525.1	551.6	558.3	640.2	749.3	803.9	899.9	1091.9
132.5°	568.2	541.7	515.1	541.7	568.2	574.8	649.9	750.1	800.1	886.1	1058.0
135°	587.9	563.8	539.6	563.8	587.9	594.0	660.6	749.3	793.7	865.7	1009.7
137.5°	612.5	588.6	564.7	588.6	612.5	618.5	676.6	754.0	792.7	853.5	975.2
140°	629.6	607.5	585.5	607.5	629.6	635.0	686.4	754.8	789.0	841.5	946.6
142.5°	642.1	621.8	601.5	621.8	642.1	647.3	694.5	757.4	789.0	835.2	927.5
145°	661.4	643.8	626.0	643.8	661.4	665.9	705.2	757.5	783.7	821.4	896.9
147.5°	685.0	667.8	650.4	667.8	685.0	689.4	720.8	762.7	783.7	813.4	872.7
150°	697.7	682.1	666.5	682.1	697.7	701.6	728.9	765.4	783.7	808.8	858.9
152.5°	706.6	694.8	683.0	694.8	706.6	709.6	734.3	767.2	783.7	805.1	848.0
155°	725.0	716.3	707.5	716.3	725.0	727.2	746.0	771.1	783.7	800.7	834.8
157.5°	742.6	734.1	725.6	734.1	742.6	744.7	757.7	775.0	783.7	796.9	823.4
160°	751.1	744.5	737.8	744.5	751.1	752.7	763.1	776.8	783.7	795.0	817.7
162.5°	760.0	755.0	750.1	755.0	760.0	761.3	768.7	778.7	783.7	793.2	812.4
165°	772.4	767.9	763.4	767.9	772.4	773.5	776.9	781.4	783.7	790.5	804.2
167.5°	779.9	777.8	775.6	777.8	779.9	780.4	783.2	787.1	789.0	793.5	802.5
170°	787.9	785.8	783.7	785.8	787.9	788.4	788.6	788.9	789.0	793.5	802.5
172.5°	788.9	788.4	787.9	788.4	788.9	789.0	789.0	789.0	789.0	792.5	799.6
175°	793.7	793.7	793.7	793.7	793.7	793.7	792.1	790.0	789.0	791.2	795.7
177.5°	793.7	793.7	793.7	793.7	793.7	793.7	792.5	790.9	790.1	791.9	795.4
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	871.3	868.7	872.2	862.8	872.2	868.7	871.3	877.3	872.2	875.6	879.0
5°	764.5	760.3	746.6	735.5	746.6	760.3	764.5	782.5	791.0	806.4	826.9
7.5°	683.4	680.0	676.6	669.7	676.6	680.0	683.4	688.5	697.1	710.7	726.1
10°	665.5	666.3	671.4	670.6	671.4	666.3	665.5	663.7	661.2	663.7	673.1
12.5°	711.6	719.3	747.4	745.7	747.4	719.3	711.6	677.4	654.3	650.1	651.8
15°	764.5	767.1	773.1	773.9	773.1	767.1	764.5	750.9	681.7	651.8	642.4
17.5°	769.7	770.5	774.8	774.8	774.8	770.5	769.7	763.7	740.6	700.5	647.5
20°	765.4	767.1	775.6	777.3	775.6	767.1	765.4	757.7	744.9	730.4	690.2
22.5°	763.7	767.1	773.9	773.1	773.9	767.1	763.7	751.7	740.6	730.4	714.1
25°	755.1	755.1	756.0	756.8	756.0	755.1	755.1	745.7	723.5	721.0	711.6
27.5°	737.2	738.9	744.0	743.2	744.0	738.9	737.2	733.8	709.9	707.3	700.5
30°	721.0	719.3	715.0	711.6	715.0	719.3	721.0	715.8	691.9	685.1	686.8
32.5°	693.6	689.4	685.1	682.5	685.1	689.4	693.6	691.9	674.0	664.6	666.3
35°	661.2	662.0	661.2	658.6	661.2	662.0	661.2	662.9	651.8	643.2	642.4
37.5°	638.1	639.8	639.0	635.6	639.0	639.8	638.1	636.4	621.0	618.5	620.2
40°	614.2	615.1	614.2	611.6	614.2	615.1	614.2	610.8	589.4	590.3	596.3
42.5°	591.1	590.3	587.7	586.0	587.7	590.3	591.1	586.0	558.7	556.1	567.2
45°	564.7	565.5	560.4	557.8	560.4	565.5	564.7	561.2	533.1	526.2	533.9
47.5°	538.2	538.2	533.9	531.4	533.9	538.2	538.2	533.9	504.0	497.2	501.5
50°	510.0	509.1	503.2	502.3	503.2	509.1	510.0	507.4	475.8	469.9	469.9
52.5°	477.5	477.5	478.4	480.1	478.4	477.5	477.5	478.4	450.2	444.2	442.5
55°	449.4	450.2	456.2	457.9	456.2	450.2	449.4	449.4	423.7	417.8	414.3
57.5°	420.3	420.3	424.6	424.6	424.6	420.3	420.3	418.6	393.8	388.7	387.0
60°	387.0	388.7	392.1	391.3	392.1	388.7	387.0	385.3	363.9	360.5	354.5
62.5°	352.0	353.7	354.5	352.8	354.5	353.7	352.0	346.9	334.0	331.5	323.8
65°	315.3	317.0	317.8	316.1	317.8	317.0	315.3	312.7	303.2	298.9	292.1
67.5°	277.6	276.7	275.9	279.3	275.9	276.7	277.6	274.2	268.2	264.8	255.4
70°	239.2	239.2	238.3	240.0	238.3	239.2	239.2	236.6	233.2	230.6	222.1
72.5°	198.2	197.3	200.7	198.2	200.7	197.3	198.2	197.3	195.6	193.0	184.5
75°	158.0	159.7	158.0	160.6	158.0	159.7	158.0	158.9	158.0	156.3	150.3
77.5°	120.4	122.1	120.4	120.4	120.4	122.1	120.4	121.3	121.3	121.3	116.2
80°	85.4	84.6	84.6	83.7	84.6	84.6	85.4	85.4	86.3	84.6	82.9
82.5°	54.7	53.8	53.8	55.5	53.8	53.8	54.7	55.5	53.8	53.8	53.8
85°	29.9	30.7	29.0	29.0	29.0	30.7	29.9	28.2	29.9	29.9	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	12.0	12.0	12.0	12.8
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8
92.5°	101.2	97.2	81.1	65.0	81.1	97.2	101.2	143.5	199.8	228.0	200.1
95°	343.6	331.4	282.6	233.9	282.6	331.4	343.6	451.2	594.7	666.5	562.9
97.5°	793.2	770.0	677.2	584.4	677.2	770.0	793.2	861.2	951.9	997.3	824.6
100°	1114.0	1086.3	975.8	865.1	975.8	1086.3	1114.0	1109.0	1102.3	1099.0	907.3
102.5°	1387.8	1364.1	1269.4	1174.7	1269.4	1364.1	1387.8	1301.1	1185.5	1127.8	933.4
105°	1707.4	1694.7	1643.8	1592.9	1643.8	1694.7	1707.4	1513.1	1254.0	1124.5	936.3
107.5°	1873.6	1876.7	1889.0	1901.3	1889.0	1876.7	1873.6	1602.6	1241.3	1060.7	894.7
110°	1916.2	1929.5	1982.5	2035.6	1982.5	1929.5	1916.2	1613.3	1209.4	1007.4	857.7



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1889.1	1909.4	1990.9	2072.3	1990.9	1909.4	1889.1	1579.0	1165.6	958.9	825.5
115°	1796.9	1825.2	1938.1	2051.0	1938.1	1825.2	1796.9	1498.2	1099.9	900.8	788.5
117.5°	1669.6	1700.9	1826.1	1951.3	1826.1	1700.9	1669.6	1400.0	1040.6	860.9	765.4
120°	1583.8	1614.2	1735.9	1857.6	1735.9	1614.2	1583.8	1337.5	1009.1	844.9	757.5
122.5°	1498.1	1528.0	1648.1	1768.1	1648.1	1528.0	1498.1	1276.2	980.5	832.7	753.5
125°	1384.5	1412.2	1522.7	1633.3	1522.7	1412.2	1384.5	1196.1	944.9	819.4	750.1
127.5°	1293.5	1316.8	1410.1	1503.4	1410.1	1316.8	1293.5	1131.7	916.1	808.2	748.1
130°	1235.9	1257.4	1343.6	1429.8	1343.6	1257.4	1235.9	1091.9	899.9	803.9	749.3
132.5°	1186.9	1206.2	1283.3	1360.5	1283.3	1206.2	1186.9	1058.0	886.1	800.1	750.1
135°	1117.6	1134.3	1200.8	1267.4	1200.8	1134.3	1117.6	1009.7	865.7	793.7	749.3
137.5°	1066.5	1080.1	1134.6	1189.0	1134.6	1080.1	1066.5	975.2	853.5	792.7	754.0
140°	1025.5	1038.2	1089.1	1140.0	1089.1	1038.2	1025.5	946.6	841.5	789.0	754.8
142.5°	996.8	1007.7	1051.5	1095.2	1051.5	1007.7	996.8	927.5	835.2	789.0	757.4
145°	953.5	961.8	995.1	1028.2	995.1	961.8	953.5	896.9	821.4	783.7	757.5
147.5°	917.3	924.2	951.7	979.2	951.7	924.2	917.3	872.7	813.4	783.7	762.7
150°	896.6	902.1	924.4	946.6	924.4	902.1	896.6	858.9	808.8	783.7	765.4
152.5°	880.1	884.3	901.1	917.8	901.1	884.3	880.1	848.0	805.1	783.7	767.2
155°	860.4	863.2	874.3	885.4	874.3	863.2	860.4	834.8	800.7	783.7	771.1
157.5°	843.3	845.2	853.0	860.9	853.0	845.2	843.3	823.4	796.9	783.7	775.0
160°	834.7	835.8	840.4	844.9	840.4	835.8	834.7	817.7	795.0	783.7	776.8
162.5°	826.8	827.8	832.1	836.4	832.1	827.8	826.8	812.4	793.2	783.7	778.7
165°	814.5	815.6	820.1	824.7	820.1	815.6	814.5	804.2	790.5	783.7	781.4
167.5°	809.2	809.7	811.6	813.5	811.6	809.7	809.2	802.5	793.5	789.0	787.1
170°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	802.5	793.5	789.0	788.9
172.5°	804.9	804.5	802.9	801.3	802.9	804.5	804.9	799.6	792.5	789.0	789.0
175°	799.1	799.1	799.1	799.1	799.1	799.1	799.1	795.7	791.2	789.0	790.0
177.5°	798.0	797.5	795.6	793.7	795.6	797.5	798.0	795.4	791.9	790.1	790.9
180°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	902.9	902.9	902.9	902.9	902.9
2.5°	891.8	896.1	898.6	902.0	910.6
5°	857.6	873.9	879.0	891.8	907.2
7.5°	782.5	832.0	845.7	876.4	900.3
10°	709.9	759.4	783.3	855.9	891.8
12.5°	673.1	702.2	718.4	820.0	879.8
15°	650.1	670.6	682.5	772.2	866.2
17.5°	632.1	646.7	655.2	725.2	847.4
20°	621.0	627.9	635.6	691.1	826.0
22.5°	613.3	609.1	615.1	667.2	797.0
25°	608.2	592.0	598.8	648.4	762.8
27.5°	612.5	576.6	579.2	631.3	726.9
30°	613.3	557.8	558.7	613.3	686.8
32.5°	607.4	538.2	539.0	591.1	641.5
35°	592.9	515.1	514.3	565.5	580.0
37.5°	573.2	490.4	490.4	537.3	512.6
40°	549.3	465.6	468.1	500.6	452.8
42.5°	520.2	439.1	442.5	451.9	408.4
45°	488.6	413.5	416.0	381.9	374.2
47.5°	453.6	387.0	387.9	317.0	363.1
50°	411.8	359.7	356.3	271.6	362.2
52.5°	375.0	329.8	319.5	246.0	328.9
55°	339.2	298.1	275.9	226.3	305.0
57.5°	307.6	257.1	235.7	203.3	299.8
60°	278.4	216.9	200.7	178.5	275.0
62.5°	254.5	187.1	183.6	161.4	249.4
65°	228.9	166.6	165.7	146.9	211.8
67.5°	204.1	152.9	152.0	133.2	161.4
70°	177.7	138.4	136.7	118.7	119.6
72.5°	150.3	122.1	120.4	106.8	99.1
75°	123.0	103.3	102.5	93.1	80.3
77.5°	96.5	82.0	83.7	75.2	58.9
80°	69.2	59.8	61.5	53.8	44.4
82.5°	46.1	39.3	41.0	34.2	29.9
85°	25.6	22.2	23.1	17.9	13.7
87.5°	12.0	10.2	10.2	6.8	4.3
90°	23.5	14.9	13.8	9.6	5.3
92.5°	144.5	102.8	93.8	57.5	21.3
95°	355.7	200.3	183.7	117.4	51.2
97.5°	479.1	220.0	205.4	146.9	88.4
100°	524.0	236.5	223.3	170.2	117.2
102.5°	544.7	253.1	240.7	191.2	141.7
105°	559.9	277.6	267.1	225.2	183.3
107.5°	562.8	313.8	304.1	265.0	225.9
110°	558.5	334.0	325.3	289.9	254.6



TEST NUMBER: P935931

CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	558.7	358.6	350.2	316.5	282.9
115°	563.8	395.3	387.5	356.5	325.5
117.5°	574.3	431.0	424.0	395.8	367.6
120°	582.8	451.7	445.1	418.6	392.0
122.5°	595.1	476.3	469.6	442.8	416.0
125°	611.6	507.7	501.6	477.2	452.9
127.5°	628.0	538.0	531.9	507.3	482.7
130°	640.2	558.3	551.6	525.1	498.6
132.5°	649.9	574.8	568.2	541.7	515.1
135°	660.6	594.0	587.9	563.8	539.6
137.5°	676.6	618.5	612.5	588.6	564.7
140°	686.4	635.0	629.6	607.5	585.5
142.5°	694.5	647.3	642.1	621.8	601.5
145°	705.2	665.9	661.4	643.8	626.0
147.5°	720.8	689.4	685.0	667.8	650.4
150°	728.9	701.6	697.7	682.1	666.5
152.5°	734.3	709.6	706.6	694.8	683.0
155°	746.0	727.2	725.0	716.3	707.5
157.5°	757.7	744.7	742.6	734.1	725.6
160°	763.1	752.7	751.1	744.5	737.8
162.5°	768.7	761.3	760.0	755.0	750.1
165°	776.9	773.5	772.4	767.9	763.4
167.5°	783.2	780.4	779.9	777.8	775.6
170°	788.6	788.4	787.9	785.8	783.7
172.5°	789.0	789.0	788.9	788.4	787.9
175°	792.1	793.7	793.7	793.7	793.7
177.5°	792.5	793.7	793.7	793.7	793.7
180°	793.7	793.7	793.7	793.7	793.7



TEST NUMBER: P935931
 CATALOG NUMBER: SQ4-FA-150U-075D-92765-1D-UNV-STD-W-4-2700K

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	10.14	10.85	11.24	11.95	13.47	12.94	13.65	14.04	14.75	16.27
	3H	10.60	11.24	11.72	12.35	13.88	14.26	14.90	15.37	16.01	17.54
	4H	10.79	11.40	11.91	12.51	14.04	14.69	15.30	15.81	16.41	17.95
	6H	10.90	11.46	12.03	12.57	14.12	14.96	15.52	16.09	16.63	18.18
	8H	10.90	11.43	12.03	12.56	14.10	15.03	15.56	16.16	16.69	18.23
	12H	10.86	11.37	12.00	12.49	14.05	15.06	15.56	16.19	16.68	18.25
4H	2H	11.15	11.75	12.27	12.86	14.40	13.33	13.94	14.46	15.05	16.58
	3H	12.16	12.66	13.29	13.80	15.35	14.81	15.32	15.95	16.45	18.00
	4H	12.43	12.89	13.57	14.02	15.59	15.33	15.79	16.46	16.92	18.49
	6H	12.55	12.94	13.69	14.09	15.65	15.68	16.07	16.82	17.22	18.78
	8H	12.55	12.92	13.69	14.06	15.64	15.77	16.15	16.92	17.28	18.86
	12H	12.51	12.85	13.67	14.00	15.58	15.82	16.16	16.98	17.31	18.89
8H	4H	12.86	13.24	14.01	14.38	15.95	15.44	15.81	16.58	16.95	18.53
	6H	13.12	13.43	14.29	14.61	16.18	15.86	16.17	17.03	17.35	18.92
	8H	13.16	13.43	14.33	14.59	16.18	16.01	16.28	17.18	17.44	19.03
	12H	13.14	13.37	14.31	14.53	16.16	16.09	16.33	17.27	17.49	19.12
12H	4H	12.86	13.20	14.02	14.35	15.93	15.40	15.73	16.56	16.89	18.47
	6H	13.18	13.45	14.35	14.61	16.20	15.86	16.13	17.03	17.29	18.88
	8H	13.24	13.47	14.41	14.63	16.26	16.01	16.24	17.18	17.40	19.03