

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: P935087

Luminaire Tested: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935087
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

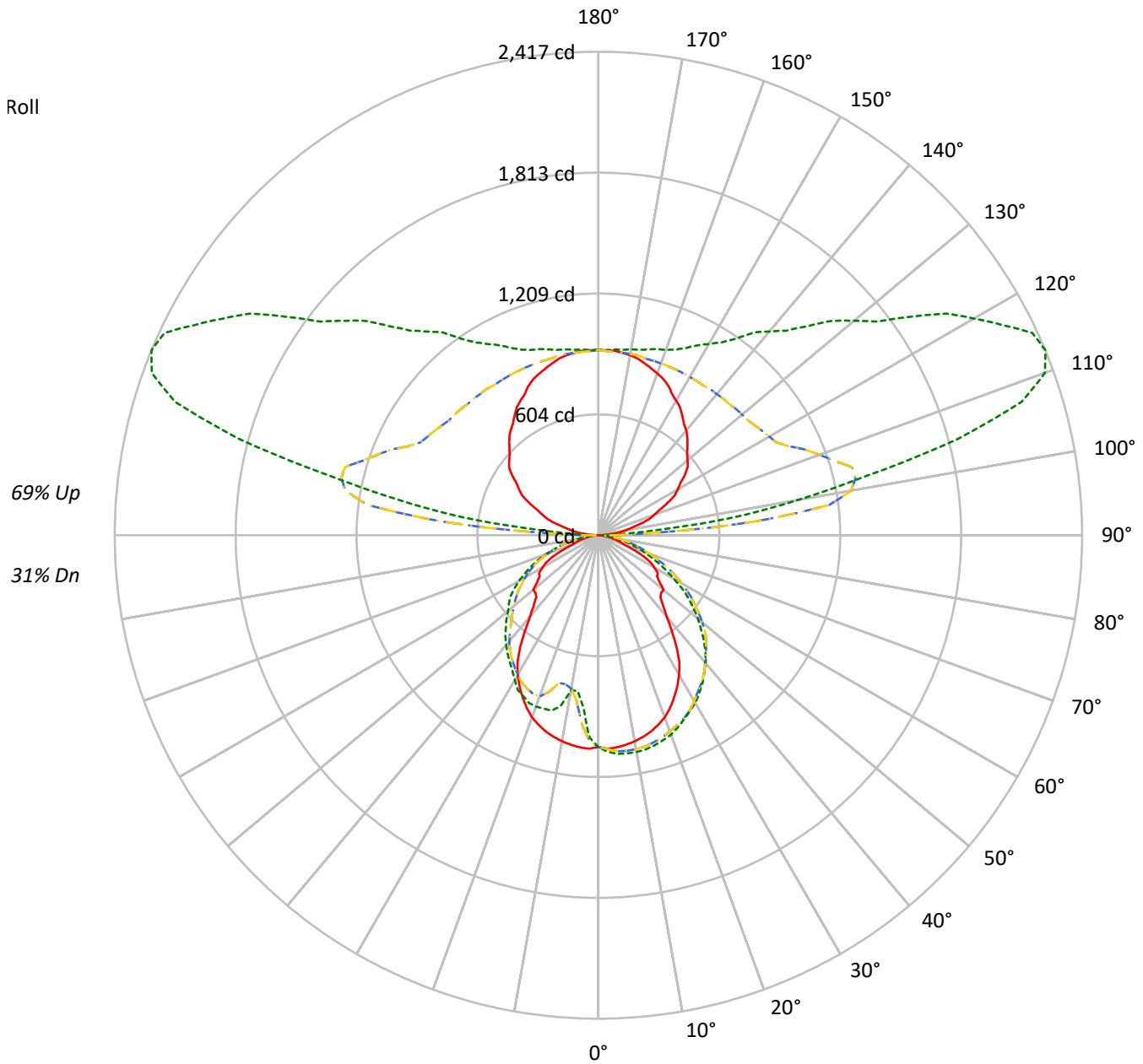
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8751.8 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P935087
CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

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	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	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	34	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	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	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	15	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°	6551	6551	6551	6551
5°	6598	6613	6598	5200
10°	6551	6515	6551	4657
15°	6478	6373	6478	5322
20°	6340	6206	6340	5333
25°	6060	5962	6060	5220
30°	5700	5760	5700	4972
35°	5079	5504	5079	4699
40°	4230	5203	4230	4493
45°	3776	4849	3776	4256
50°	4009	4429	4009	4018
55°	3768	3975	3768	3881
60°	3879	3376	3879	3555
65°	3512	2791	3512	3119
70°	2425	2223	2425	2615
75°	2120	1644	2120	1968
80°	1696	1086	1696	1184
85°	954	575	954	490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.1
10°-20°	271.4	3.1
20°-30°	419.6	4.8
30°-40°	500.9	5.7
40°-50°	503.8	5.8
50°-60°	438.4	5.0
60°-70°	310.8	3.6
70°-80°	164.4	1.9
80°-90°	44.5	0.5
90°-100°	451.3	5.2
100°-110°	1186.6	13.6
110°-120°	1230.4	14.1
120°-130°	986.9	11.3
130°-140°	774.4	8.8
140°-150°	594.4	6.8
150°-160°	428.0	4.9
160°-170°	261.9	3.0
170°-180°	88.5	1.0
0°-30°	786.6	9.0
0°-40°	1287.5	14.7
0°-60°	2229.7	25.5
0°-90°	2749.5	31.4
90°-120°	2868.3	32.8
90°-150°	5223.9	59.7
90°-180°	6002.0	68.6
0°-180°	8751.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1059	1059	1059	1059	1059	
5°	1064	1097	1064	863	1064	101
15°	1016	1087	1016	908	1016	286
25°	895	1014	895	888	895	411
35°	680	905	680	772	680	421
45°	439	745	439	654	439	352
55°	358	550	358	537	358	329
65°	248	332	248	371	248	237
75°	94	157	94	188	94	99
85°	16	40	16	34	16	22
90°	6	24	6	24	6	6
95°	60	273	60	273	60	66
105°	214	1858	214	1858	214	227
115°	380	2392	380	2392	380	375
125°	528	1905	528	1905	528	469
135°	630	1478	630	1478	630	487
145°	730	1199	730	1199	730	457
155°	825	1033	825	1033	825	379
165°	890	962	890	962	890	251
175°	926	932	926	932	926	88
180°	926	926	926	926	926	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1068.1	1068.1	1074.1	1076.1	1076.1	1073.1	1070.1	1073.1	1082.2	1085.1	1084.1
5°	1064.0	1072.1	1083.2	1085.1	1087.1	1086.1	1084.1	1086.1	1096.1	1098.2	1099.2
7.5°	1056.1	1071.1	1085.1	1088.1	1091.1	1088.1	1087.1	1089.1	1099.2	1101.2	1101.2
10°	1046.0	1067.1	1083.2	1085.1	1088.1	1085.1	1085.1	1089.1	1099.2	1101.2	1102.2
12.5°	1032.1	1061.0	1076.1	1078.1	1082.2	1081.2	1080.1	1084.1	1094.1	1096.1	1096.1
15°	1016.0	1050.1	1064.0	1066.1	1073.1	1071.1	1071.1	1075.1	1086.1	1089.1	1088.1
17.5°	993.9	1036.0	1052.1	1055.1	1060.0	1059.0	1060.0	1064.0	1074.1	1076.1	1077.1
20°	968.9	1017.0	1036.0	1039.0	1044.0	1044.0	1044.0	1049.1	1059.0	1063.0	1063.0
22.5°	934.8	996.9	1017.0	1019.0	1025.0	1025.0	1027.0	1034.0	1043.0	1044.0	1044.0
25°	894.7	974.9	991.9	998.0	1004.0	1007.0	1009.9	1014.0	1017.0	1016.0	1017.0
27.5°	852.7	946.8	968.9	972.9	981.0	983.9	987.9	988.9	989.9	992.9	990.9
30°	805.6	907.8	940.8	944.8	957.9	959.8	955.9	957.9	962.8	964.9	966.9
32.5°	752.5	849.7	911.7	920.8	932.9	926.8	925.8	928.8	936.8	936.8	938.8
35°	680.4	804.6	884.7	892.7	901.8	894.7	898.8	899.8	904.8	907.8	906.8
37.5°	601.2	765.5	856.7	862.6	869.7	860.6	866.7	869.7	873.7	871.7	871.7
40°	531.1	704.4	823.6	827.6	833.7	826.6	832.7	834.6	836.6	834.6	833.7
42.5°	479.0	637.2	788.5	793.5	789.5	794.5	796.6	800.6	797.6	793.5	793.5
45°	438.8	619.2	750.5	756.5	750.5	758.5	761.4	761.4	752.5	750.5	749.5
47.5°	425.8	583.2	712.4	712.4	709.4	719.4	724.4	717.4	708.4	705.4	705.4
50°	424.8	543.0	660.2	656.3	670.3	682.4	677.3	670.3	663.3	652.3	652.3
52.5°	385.8	493.9	593.1	608.2	630.3	637.2	629.3	622.2	610.1	605.2	601.2
55°	357.7	442.8	532.1	562.1	585.2	594.1	579.2	572.1	554.1	551.1	549.1
57.5°	351.7	368.7	475.9	514.0	542.0	541.0	532.1	519.0	504.0	501.0	500.0
60°	322.6	266.5	415.8	460.9	489.9	486.9	479.0	466.9	452.9	450.9	448.9
62.5°	292.5	193.4	347.7	398.8	439.8	438.8	431.9	413.8	403.8	398.8	394.8
65°	248.5	162.3	247.5	331.7	390.7	392.7	377.8	364.7	353.7	347.7	346.7
67.5°	189.3	132.3	167.3	276.6	343.7	341.6	322.6	316.6	302.6	299.6	293.6
70°	140.2	88.1	116.2	224.4	297.6	292.5	277.6	270.5	257.5	250.5	246.5
72.5°	116.2	71.1	85.2	174.3	250.5	244.5	231.5	223.4	212.4	206.4	202.4
75°	94.2	75.1	65.1	129.3	203.4	199.4	187.3	179.4	170.3	162.3	163.3
77.5°	69.1	70.1	52.1	95.2	161.4	155.3	148.3	138.2	134.3	126.3	126.3
80°	52.1	55.1	39.0	65.1	116.2	116.2	110.3	103.2	96.2	92.2	92.2
82.5°	35.1	35.1	29.1	41.0	79.2	76.2	72.1	70.1	66.1	64.1	64.1
85°	16.0	20.0	18.0	25.0	43.1	45.1	45.1	43.1	42.1	40.0	41.0
87.5°	5.0	9.1	11.1	14.0	22.0	23.0	24.0	24.0	24.0	25.0	25.0
90°	6.2	11.2	16.1	17.4	27.4	40.6	47.2	41.9	31.5	23.6	23.6
92.5°	24.9	67.1	109.4	119.9	168.6	233.5	265.9	233.1	167.3	118.0	113.3
95°	59.7	137.0	214.3	233.7	414.9	656.6	777.4	693.7	526.3	400.8	386.5
97.5°	103.2	171.4	239.6	256.7	558.9	961.8	1163.3	1110.4	1004.7	925.3	898.2
100°	136.8	198.6	260.5	275.9	611.2	1058.3	1282.0	1285.8	1293.6	1299.4	1267.1
102.5°	165.3	223.1	280.8	295.2	635.3	1088.8	1315.5	1382.9	1517.7	1618.8	1591.2
105°	213.7	262.6	311.5	323.8	653.2	1092.3	1311.8	1462.9	1765.0	1991.6	1976.8
107.5°	263.4	309.1	354.7	366.0	656.5	1043.6	1237.2	1448.0	1869.4	2185.5	2189.1
110°	297.0	338.1	379.4	389.6	651.5	1000.6	1175.1	1410.6	1881.8	2235.2	2250.7



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CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	330.0	369.2	408.5	418.2	651.7	962.9	1118.5	1359.6	1841.9	2203.6	2227.3
115°	379.7	415.8	452.0	461.0	657.7	919.7	1050.8	1283.0	1747.7	2096.1	2129.0
117.5°	428.8	461.6	494.5	502.7	669.8	892.7	1004.2	1213.8	1633.0	1947.5	1984.0
120°	457.4	488.3	519.2	527.0	679.9	883.7	985.5	1177.1	1560.1	1847.5	1882.9
122.5°	485.4	516.5	547.8	555.6	694.1	878.9	971.3	1143.8	1488.7	1747.4	1782.4
125°	528.2	556.7	585.2	592.2	713.4	875.0	955.8	1102.3	1395.3	1615.1	1647.4
127.5°	563.0	591.7	620.5	627.7	732.7	872.7	942.7	1068.5	1320.1	1508.8	1536.0
130°	581.7	612.6	643.5	651.3	746.8	874.1	937.7	1049.7	1273.7	1441.7	1466.8
132.5°	600.9	631.9	662.7	670.5	758.2	875.0	933.4	1033.6	1234.1	1384.5	1407.0
135°	629.5	657.7	685.8	692.9	770.6	874.1	925.9	1009.8	1177.8	1303.8	1323.2
137.5°	658.7	686.5	714.5	721.5	789.2	879.6	924.7	995.7	1137.6	1244.1	1259.9
140°	683.0	708.7	734.4	740.7	800.6	880.4	920.3	981.7	1104.3	1196.2	1211.0
142.5°	701.6	725.4	749.1	755.1	810.1	883.6	920.3	974.2	1081.9	1162.6	1175.4
145°	730.2	750.9	771.6	776.8	822.6	883.7	914.1	958.2	1046.3	1112.3	1122.0
147.5°	758.8	778.9	799.0	804.1	840.7	889.6	914.1	948.8	1018.1	1070.1	1078.1
150°	777.4	795.6	813.8	818.4	850.3	892.8	914.1	943.4	1001.9	1045.8	1052.3
152.5°	796.7	810.5	824.3	827.8	856.6	894.9	914.1	939.1	989.1	1026.6	1031.5
155°	825.3	835.4	845.6	848.2	870.2	899.5	914.1	934.0	973.8	1003.6	1006.9
157.5°	846.4	856.4	866.2	868.7	883.9	904.1	914.1	929.6	960.5	983.7	986.0
160°	860.6	868.4	876.2	878.1	890.1	906.2	914.1	927.4	953.9	973.8	975.1
162.5°	875.0	880.8	886.5	888.0	896.7	908.4	914.1	925.3	947.7	964.4	965.6
165°	890.5	895.7	901.0	902.3	906.3	911.5	914.1	922.1	938.1	950.2	951.5
167.5°	904.8	907.3	909.7	910.3	913.6	918.1	920.3	925.6	936.0	943.9	944.5
170°	914.1	916.6	919.1	919.7	919.9	920.2	920.3	925.6	936.0	943.9	943.9
172.5°	919.1	919.6	920.2	920.3	920.3	920.3	920.3	924.5	932.8	938.9	938.4
175°	925.9	925.9	925.9	925.9	924.0	921.5	920.3	922.9	928.2	932.2	932.2
177.5°	925.9	925.9	925.9	925.9	924.5	922.6	921.6	923.7	927.8	930.9	930.3
180°	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1086.1	1083.2	1086.1	1084.1	1085.1	1082.2	1073.1	1070.1	1073.1	1076.1	1076.1
5°	1099.2	1097.1	1099.2	1099.2	1098.2	1096.1	1086.1	1084.1	1086.1	1087.1	1085.1
7.5°	1103.2	1100.2	1103.2	1101.2	1101.2	1099.2	1089.1	1087.1	1088.1	1091.1	1088.1
10°	1103.2	1100.2	1103.2	1102.2	1101.2	1099.2	1089.1	1085.1	1085.1	1088.1	1085.1
12.5°	1098.2	1096.1	1098.2	1096.1	1096.1	1094.1	1084.1	1080.1	1081.2	1082.2	1078.1
15°	1090.1	1087.1	1090.1	1088.1	1089.1	1086.1	1075.1	1071.1	1071.1	1073.1	1066.1
17.5°	1078.1	1074.1	1078.1	1077.1	1076.1	1074.1	1064.0	1060.0	1059.0	1060.0	1055.1
20°	1064.0	1061.0	1064.0	1063.0	1063.0	1059.0	1049.1	1044.0	1044.0	1044.0	1039.0
22.5°	1042.0	1039.0	1042.0	1044.0	1044.0	1043.0	1034.0	1027.0	1025.0	1025.0	1019.0
25°	1017.0	1014.0	1017.0	1017.0	1016.0	1017.0	1014.0	1009.9	1007.0	1004.0	998.0
27.5°	992.9	990.9	992.9	990.9	992.9	989.9	988.9	987.9	983.9	981.0	972.9
30°	968.9	966.9	968.9	966.9	964.9	962.8	957.9	955.9	959.8	957.9	944.8
32.5°	938.8	936.8	938.8	938.8	936.8	936.8	928.8	925.8	926.8	932.9	920.8
35°	907.8	904.8	907.8	906.8	907.8	904.8	899.8	898.8	894.7	901.8	892.7
37.5°	871.7	868.7	871.7	871.7	871.7	873.7	869.7	866.7	860.6	869.7	862.6
40°	834.6	830.7	834.6	833.7	834.6	836.6	834.6	832.7	826.6	833.7	827.6
42.5°	792.5	791.5	792.5	793.5	793.5	797.6	800.6	796.6	794.5	789.5	793.5
45°	747.5	745.4	747.5	749.5	750.5	752.5	761.4	761.4	758.5	750.5	756.5
47.5°	699.4	694.3	699.4	705.4	705.4	708.4	717.4	724.4	719.4	709.4	712.4
50°	648.3	649.3	648.3	652.3	652.3	663.3	670.3	677.3	682.4	670.3	656.3
52.5°	598.2	597.2	598.2	601.2	605.2	610.1	622.2	629.3	637.2	630.3	608.2
55°	548.1	550.1	548.1	549.1	551.1	554.1	572.1	579.2	594.1	585.2	562.1
57.5°	498.0	495.0	498.0	500.0	501.0	504.0	519.0	532.1	541.0	542.0	514.0
60°	439.8	435.8	439.8	448.9	450.9	452.9	466.9	479.0	486.9	489.9	460.9
62.5°	388.7	381.8	388.7	394.8	398.8	403.8	413.8	431.9	438.8	439.8	398.8
65°	334.7	331.7	334.7	346.7	347.7	353.7	364.7	377.8	392.7	390.7	331.7
67.5°	285.6	285.6	285.6	293.6	299.6	302.6	316.6	322.6	341.6	343.7	276.6
70°	240.4	239.4	240.4	246.5	250.5	257.5	270.5	277.6	292.5	297.6	224.4
72.5°	197.4	196.4	197.4	202.4	206.4	212.4	223.4	231.5	244.5	250.5	174.3
75°	159.4	157.3	159.4	163.3	162.3	170.3	179.4	187.3	199.4	203.4	129.3
77.5°	122.2	122.2	122.2	126.3	126.3	134.3	138.2	148.3	155.3	161.4	95.2
80°	91.1	90.1	91.1	92.2	92.2	96.2	103.2	110.3	116.2	116.2	65.1
82.5°	64.1	62.2	64.1	64.1	64.1	66.1	70.1	72.1	76.2	79.2	41.0
85°	40.0	40.0	40.0	41.0	40.0	42.1	43.1	45.1	45.1	43.1	25.0
87.5°	26.1	25.0	26.1	25.0	25.0	24.0	24.0	24.0	23.0	22.0	14.0
90°	23.6	23.6	23.6	23.6	23.6	31.5	41.9	47.2	40.6	27.4	17.4
92.5°	94.5	75.8	94.5	113.3	118.0	167.3	233.1	265.9	233.5	168.6	119.9
95°	329.7	272.8	329.7	386.5	400.8	526.3	693.7	777.4	656.6	414.9	233.7
97.5°	789.9	681.7	789.9	898.2	925.3	1004.7	1110.4	1163.3	961.8	558.9	256.7
100°	1138.1	1009.1	1138.1	1267.1	1299.4	1293.6	1285.8	1282.0	1058.3	611.2	275.9
102.5°	1480.7	1370.2	1480.7	1591.2	1618.8	1517.7	1382.9	1315.5	1088.8	635.3	295.2
105°	1917.4	1858.0	1917.4	1976.8	1991.6	1765.0	1462.9	1311.8	1092.3	653.2	323.8
107.5°	2203.6	2217.9	2203.6	2189.1	2185.5	1869.4	1448.0	1237.2	1043.6	656.5	366.0
110°	2312.6	2374.5	2312.6	2250.7	2235.2	1881.8	1410.6	1175.1	1000.6	651.5	389.6



TEST NUMBER: P935087

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2322.3	2417.3	2322.3	2227.3	2203.6	1841.9	1359.6	1118.5	962.9	651.7	418.2
115°	2260.7	2392.5	2260.7	2129.0	2096.1	1747.7	1283.0	1050.8	919.7	657.7	461.0
117.5°	2130.1	2276.3	2130.1	1984.0	1947.5	1633.0	1213.8	1004.2	892.7	669.8	502.7
120°	2025.0	2166.9	2025.0	1882.9	1847.5	1560.1	1177.1	985.5	883.7	679.9	527.0
122.5°	1922.5	2062.5	1922.5	1782.4	1747.4	1488.7	1143.8	971.3	878.9	694.1	555.6
125°	1776.3	1905.2	1776.3	1647.4	1615.1	1395.3	1102.3	955.8	875.0	713.4	592.2
127.5°	1644.9	1753.7	1644.9	1536.0	1508.8	1320.1	1068.5	942.7	872.7	732.7	627.7
130°	1567.4	1667.9	1567.4	1466.8	1441.7	1273.7	1049.7	937.7	874.1	746.8	651.3
132.5°	1497.1	1587.1	1497.1	1407.0	1384.5	1234.1	1033.6	933.4	875.0	758.2	670.5
135°	1400.8	1478.4	1400.8	1323.2	1303.8	1177.8	1009.8	925.9	874.1	770.6	692.9
137.5°	1323.5	1387.0	1323.5	1259.9	1244.1	1137.6	995.7	924.7	879.6	789.2	721.5
140°	1270.5	1329.9	1270.5	1211.0	1196.2	1104.3	981.7	920.3	880.4	800.6	740.7
142.5°	1226.6	1277.7	1226.6	1175.4	1162.6	1081.9	974.2	920.3	883.6	810.1	755.1
145°	1160.7	1199.4	1160.7	1122.0	1112.3	1046.3	958.2	914.1	883.7	822.6	776.8
147.5°	1110.1	1142.2	1110.1	1078.1	1070.1	1018.1	948.8	914.1	889.6	840.7	804.1
150°	1078.3	1104.3	1078.3	1052.3	1045.8	1001.9	943.4	914.1	892.8	850.3	818.4
152.5°	1051.1	1070.7	1051.1	1031.5	1026.6	989.1	939.1	914.1	894.9	856.6	827.8
155°	1019.8	1032.8	1019.8	1006.9	1003.6	973.8	934.0	914.1	899.5	870.2	848.2
157.5°	995.1	1004.2	995.1	986.0	983.7	960.5	929.6	914.1	904.1	883.9	868.7
160°	980.4	985.5	980.4	975.1	973.8	953.9	927.4	914.1	906.2	890.1	878.1
162.5°	970.6	975.6	970.6	965.6	964.4	947.7	925.3	914.1	908.4	896.7	888.0
165°	956.8	961.9	956.8	951.5	950.2	938.1	922.1	914.1	911.5	906.3	902.3
167.5°	946.7	948.9	946.7	944.5	943.9	936.0	925.6	920.3	918.1	913.6	910.3
170°	943.9	943.9	943.9	943.9	943.9	936.0	925.6	920.3	920.2	919.9	919.7
172.5°	936.5	934.6	936.5	938.4	938.9	932.8	924.5	920.3	920.3	920.3	920.3
175°	932.2	932.2	932.2	932.2	932.2	928.2	922.9	920.3	921.5	924.0	925.9
177.5°	928.1	925.9	928.1	930.3	930.9	927.8	923.7	921.6	922.6	924.5	925.9
180°	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9



TEST NUMBER: P935087

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1074.1	1068.1	1068.1	1058.1	1054.1	1051.1	1046.0	1031.1	1027.0	1023.0	1029.0
5°	1083.2	1072.1	1064.0	1046.0	1031.1	1025.0	1006.0	969.9	945.8	927.8	917.8
7.5°	1085.1	1071.1	1056.1	1028.0	991.9	975.9	917.8	851.7	833.7	817.6	807.6
10°	1083.2	1067.1	1046.0	1004.0	918.8	890.7	832.7	789.5	778.5	775.5	778.5
12.5°	1076.1	1061.0	1032.1	961.8	842.6	823.6	789.5	764.5	762.4	767.5	794.5
15°	1064.0	1050.1	1016.0	905.8	800.6	786.5	762.4	753.5	764.5	799.6	880.8
17.5°	1052.1	1036.0	993.9	850.7	768.5	758.5	741.4	759.4	821.6	868.7	895.7
20°	1036.0	1017.0	968.9	810.5	745.4	736.4	728.4	809.5	856.7	873.7	888.7
22.5°	1017.0	996.9	934.8	782.6	721.4	714.4	719.4	837.6	856.7	868.7	881.8
25°	991.9	974.9	894.7	760.4	702.4	694.3	713.4	834.6	845.6	848.7	874.7
27.5°	968.9	946.8	852.7	740.4	679.4	676.3	718.4	821.6	829.7	832.7	860.6
30°	940.8	907.8	805.6	719.4	655.3	654.3	719.4	805.6	803.6	811.5	839.6
32.5°	911.7	849.7	752.5	693.3	632.3	631.3	712.4	781.6	779.6	790.5	811.5
35°	884.7	804.6	680.4	663.3	603.2	604.2	695.3	753.5	754.5	764.5	777.5
37.5°	856.7	765.5	601.2	630.3	575.1	575.1	672.3	727.4	725.4	728.4	746.5
40°	823.6	704.4	531.1	587.1	549.1	546.1	644.2	699.4	692.3	691.3	716.4
42.5°	788.5	637.2	479.0	530.1	519.0	515.0	610.1	665.3	652.3	655.3	687.3
45°	750.5	619.2	438.8	447.9	487.9	485.0	573.1	626.2	617.2	625.2	658.3
47.5°	712.4	583.2	425.8	371.7	454.9	453.9	532.1	588.1	583.2	591.1	626.2
50°	660.2	543.0	424.8	318.6	417.8	421.8	483.0	551.1	551.1	558.1	595.2
52.5°	593.1	493.9	385.8	288.5	374.7	386.7	439.8	519.0	521.0	528.1	561.0
55°	532.1	442.8	357.7	265.5	323.6	349.7	397.8	485.9	489.9	497.0	527.0
57.5°	475.9	368.7	351.7	238.4	276.6	301.6	360.8	453.9	455.9	461.9	490.9
60°	415.8	266.5	322.6	209.4	235.5	254.5	326.6	415.8	422.8	426.8	451.9
62.5°	347.7	193.4	292.5	189.3	215.4	219.4	298.6	379.8	388.7	391.7	406.8
65°	247.5	162.3	248.5	172.3	194.4	195.4	268.5	342.6	350.7	355.7	366.7
67.5°	167.3	132.3	189.3	156.3	178.4	179.4	239.4	299.6	310.7	314.6	321.6
70°	116.2	88.1	140.2	139.2	160.4	162.3	208.4	260.6	270.5	273.5	277.6
72.5°	85.2	71.1	116.2	125.2	141.2	143.3	176.4	216.4	226.5	229.5	231.5
75°	65.1	75.1	94.2	109.3	120.2	121.2	144.3	176.4	183.4	185.4	186.4
77.5°	52.1	70.1	69.1	88.1	98.2	96.2	113.2	136.3	142.2	142.2	142.2
80°	39.0	55.1	52.1	63.1	72.1	70.1	81.2	97.2	99.2	101.2	100.2
82.5°	29.1	35.1	35.1	40.0	48.1	46.1	54.1	63.1	63.1	63.1	65.1
85°	18.0	20.0	16.0	21.0	27.1	26.1	30.1	34.1	35.1	35.1	33.1
87.5°	11.1	9.1	5.0	8.0	12.1	12.1	14.0	15.0	14.0	14.0	14.0
90°	16.1	11.2	6.2	11.2	16.1	17.4	27.4	40.6	47.2	41.9	31.5
92.5°	109.4	67.1	24.9	67.1	109.4	119.9	168.6	233.5	265.9	233.1	167.3
95°	214.3	137.0	59.7	137.0	214.3	233.7	414.9	656.6	777.4	693.7	526.3
97.5°	239.6	171.4	103.2	171.4	239.6	256.7	558.9	961.8	1163.3	1110.4	1004.7
100°	260.5	198.6	136.8	198.6	260.5	275.9	611.2	1058.3	1282.0	1285.8	1293.6
102.5°	280.8	223.1	165.3	223.1	280.8	295.2	635.3	1088.8	1315.5	1382.9	1517.7
105°	311.5	262.6	213.7	262.6	311.5	323.8	653.2	1092.3	1311.8	1462.9	1765.0
107.5°	354.7	309.1	263.4	309.1	354.7	366.0	656.5	1043.6	1237.2	1448.0	1869.4
110°	379.4	338.1	297.0	338.1	379.4	389.6	651.5	1000.6	1175.1	1410.6	1881.8



TEST NUMBER: P935087

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	408.5	369.2	330.0	369.2	408.5	418.2	651.7	962.9	1118.5	1359.6	1841.9
115°	452.0	415.8	379.7	415.8	452.0	461.0	657.7	919.7	1050.8	1283.0	1747.7
117.5°	494.5	461.6	428.8	461.6	494.5	502.7	669.8	892.7	1004.2	1213.8	1633.0
120°	519.2	488.3	457.4	488.3	519.2	527.0	679.9	883.7	985.5	1177.1	1560.1
122.5°	547.8	516.5	485.4	516.5	547.8	555.6	694.1	878.9	971.3	1143.8	1488.7
125°	585.2	556.7	528.2	556.7	585.2	592.2	713.4	875.0	955.8	1102.3	1395.3
127.5°	620.5	591.7	563.0	591.7	620.5	627.7	732.7	872.7	942.7	1068.5	1320.1
130°	643.5	612.6	581.7	612.6	643.5	651.3	746.8	874.1	937.7	1049.7	1273.7
132.5°	662.7	631.9	600.9	631.9	662.7	670.5	758.2	875.0	933.4	1033.6	1234.1
135°	685.8	657.7	629.5	657.7	685.8	692.9	770.6	874.1	925.9	1009.8	1177.8
137.5°	714.5	686.5	658.7	686.5	714.5	721.5	789.2	879.6	924.7	995.7	1137.6
140°	734.4	708.7	683.0	708.7	734.4	740.7	800.6	880.4	920.3	981.7	1104.3
142.5°	749.1	725.4	701.6	725.4	749.1	755.1	810.1	883.6	920.3	974.2	1081.9
145°	771.6	750.9	730.2	750.9	771.6	776.8	822.6	883.7	914.1	958.2	1046.3
147.5°	799.0	778.9	758.8	778.9	799.0	804.1	840.7	889.6	914.1	948.8	1018.1
150°	813.8	795.6	777.4	795.6	813.8	818.4	850.3	892.8	914.1	943.4	1001.9
152.5°	824.3	810.5	796.7	810.5	824.3	827.8	856.6	894.9	914.1	939.1	989.1
155°	845.6	835.4	825.3	835.4	845.6	848.2	870.2	899.5	914.1	934.0	973.8
157.5°	866.2	856.4	846.4	856.4	866.2	868.7	883.9	904.1	914.1	929.6	960.5
160°	876.2	868.4	860.6	868.4	876.2	878.1	890.1	906.2	914.1	927.4	953.9
162.5°	886.5	880.8	875.0	880.8	886.5	888.0	896.7	908.4	914.1	925.3	947.7
165°	901.0	895.7	890.5	895.7	901.0	902.3	906.3	911.5	914.1	922.1	938.1
167.5°	909.7	907.3	904.8	907.3	909.7	910.3	913.6	918.1	920.3	925.6	936.0
170°	919.1	916.6	914.1	916.6	919.1	919.7	919.9	920.2	920.3	925.6	936.0
172.5°	920.2	919.6	919.1	919.6	920.2	920.3	920.3	920.3	920.3	924.5	932.8
175°	925.9	925.9	925.9	925.9	925.9	925.9	924.0	921.5	920.3	922.9	928.2
177.5°	925.9	925.9	925.9	925.9	925.9	925.9	924.5	922.6	921.6	923.7	927.8
180°	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9



TEST NUMBER: P935087

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1022.0	1019.0	1023.0	1011.9	1023.0	1019.0	1022.0	1029.0	1023.0	1027.0	1031.1
5°	896.8	891.7	875.7	862.6	875.7	891.7	896.8	917.8	927.8	945.8	969.9
7.5°	801.6	797.6	793.5	785.5	793.5	797.6	801.6	807.6	817.6	833.7	851.7
10°	780.6	781.6	787.5	786.5	787.5	781.6	780.6	778.5	775.5	778.5	789.5
12.5°	834.6	843.6	876.7	874.7	876.7	843.6	834.6	794.5	767.5	762.4	764.5
15°	896.8	899.8	906.8	907.8	906.8	899.8	896.8	880.8	799.6	764.5	753.5
17.5°	902.8	903.8	908.8	908.8	908.8	903.8	902.8	895.7	868.7	821.6	759.4
20°	897.8	899.8	909.7	911.7	909.7	899.8	897.8	888.7	873.7	856.7	809.5
22.5°	895.7	899.8	907.8	906.8	907.8	899.8	895.7	881.8	868.7	856.7	837.6
25°	885.7	885.7	886.7	887.7	886.7	885.7	885.7	874.7	848.7	845.6	834.6
27.5°	864.7	866.7	872.7	871.7	872.7	866.7	864.7	860.6	832.7	829.7	821.6
30°	845.6	843.6	838.6	834.6	838.6	843.6	845.6	839.6	811.5	803.6	805.6
32.5°	813.6	808.6	803.6	800.6	803.6	808.6	813.6	811.5	790.5	779.6	781.6
35°	775.5	776.5	775.5	772.5	775.5	776.5	775.5	777.5	764.5	754.5	753.5
37.5°	748.5	750.5	749.5	745.4	749.5	750.5	748.5	746.5	728.4	725.4	727.4
40°	720.4	721.4	720.4	717.4	720.4	721.4	720.4	716.4	691.3	692.3	699.4
42.5°	693.3	692.3	689.3	687.3	689.3	692.3	693.3	687.3	655.3	652.3	665.3
45°	662.3	663.3	657.3	654.3	657.3	663.3	662.3	658.3	625.2	617.2	626.2
47.5°	631.3	631.3	626.2	623.2	626.2	631.3	631.3	626.2	591.1	583.2	588.1
50°	598.2	597.2	590.1	589.1	590.1	597.2	598.2	595.2	558.1	551.1	551.1
52.5°	560.1	560.1	561.0	563.1	561.0	560.1	560.1	561.0	528.1	521.0	519.0
55°	527.0	528.1	535.1	537.0	535.1	528.1	527.0	527.0	497.0	489.9	485.9
57.5°	492.9	492.9	498.0	498.0	498.0	492.9	492.9	490.9	461.9	455.9	453.9
60°	453.9	455.9	459.9	458.9	459.9	455.9	453.9	451.9	426.8	422.8	415.8
62.5°	412.8	414.8	415.8	413.8	415.8	414.8	412.8	406.8	391.7	388.7	379.8
65°	369.7	371.7	372.7	370.7	372.7	371.7	369.7	366.7	355.7	350.7	342.6
67.5°	325.6	324.6	323.6	327.7	323.6	324.6	325.6	321.6	314.6	310.7	299.6
70°	280.6	280.6	279.6	281.6	279.6	280.6	280.6	277.6	273.5	270.5	260.6
72.5°	232.5	231.5	235.5	232.5	235.5	231.5	232.5	231.5	229.5	226.5	216.4
75°	185.4	187.3	185.4	188.3	185.4	187.3	185.4	186.4	185.4	183.4	176.4
77.5°	141.2	143.3	141.2	141.2	141.2	143.3	141.2	142.2	142.2	142.2	136.3
80°	100.2	99.2	99.2	98.2	99.2	99.2	100.2	100.2	101.2	99.2	97.2
82.5°	64.1	63.1	63.1	65.1	63.1	63.1	64.1	65.1	63.1	63.1	63.1
85°	35.1	36.1	34.1	34.1	34.1	36.1	35.1	33.1	35.1	35.1	34.1
87.5°	13.0	12.1	12.1	12.1	12.1	12.1	13.0	14.0	14.0	14.0	15.0
90°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	31.5	41.9	47.2	40.6
92.5°	118.0	113.3	94.5	75.8	94.5	113.3	118.0	167.3	233.1	265.9	233.5
95°	400.8	386.5	329.7	272.8	329.7	386.5	400.8	526.3	693.7	777.4	656.6
97.5°	925.3	898.2	789.9	681.7	789.9	898.2	925.3	1004.7	1110.4	1163.3	961.8
100°	1299.4	1267.1	1138.1	1009.1	1138.1	1267.1	1299.4	1293.6	1285.8	1282.0	1058.3
102.5°	1618.8	1591.2	1480.7	1370.2	1480.7	1591.2	1618.8	1517.7	1382.9	1315.5	1088.8
105°	1991.6	1976.8	1917.4	1858.0	1917.4	1976.8	1991.6	1765.0	1462.9	1311.8	1092.3
107.5°	2185.5	2189.1	2203.6	2217.9	2203.6	2189.1	2185.5	1869.4	1448.0	1237.2	1043.6
110°	2235.2	2250.7	2312.6	2374.5	2312.6	2250.7	2235.2	1881.8	1410.6	1175.1	1000.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2203.6	2227.3	2322.3	2417.3	2322.3	2227.3	2203.6	1841.9	1359.6	1118.5	962.9
115°	2096.1	2129.0	2260.7	2392.5	2260.7	2129.0	2096.1	1747.7	1283.0	1050.8	919.7
117.5°	1947.5	1984.0	2130.1	2276.3	2130.1	1984.0	1947.5	1633.0	1213.8	1004.2	892.7
120°	1847.5	1882.9	2025.0	2166.9	2025.0	1882.9	1847.5	1560.1	1177.1	985.5	883.7
122.5°	1747.4	1782.4	1922.5	2062.5	1922.5	1782.4	1747.4	1488.7	1143.8	971.3	878.9
125°	1615.1	1647.4	1776.3	1905.2	1776.3	1647.4	1615.1	1395.3	1102.3	955.8	875.0
127.5°	1508.8	1536.0	1644.9	1753.7	1644.9	1536.0	1508.8	1320.1	1068.5	942.7	872.7
130°	1441.7	1466.8	1567.4	1667.9	1567.4	1466.8	1441.7	1273.7	1049.7	937.7	874.1
132.5°	1384.5	1407.0	1497.1	1587.1	1497.1	1407.0	1384.5	1234.1	1033.6	933.4	875.0
135°	1303.8	1323.2	1400.8	1478.4	1400.8	1323.2	1303.8	1177.8	1009.8	925.9	874.1
137.5°	1244.1	1259.9	1323.5	1387.0	1323.5	1259.9	1244.1	1137.6	995.7	924.7	879.6
140°	1196.2	1211.0	1270.5	1329.9	1270.5	1211.0	1196.2	1104.3	981.7	920.3	880.4
142.5°	1162.6	1175.4	1226.6	1277.7	1226.6	1175.4	1162.6	1081.9	974.2	920.3	883.6
145°	1112.3	1122.0	1160.7	1199.4	1160.7	1122.0	1112.3	1046.3	958.2	914.1	883.7
147.5°	1070.1	1078.1	1110.1	1142.2	1110.1	1078.1	1070.1	1018.1	948.8	914.1	889.6
150°	1045.8	1052.3	1078.3	1104.3	1078.3	1052.3	1045.8	1001.9	943.4	914.1	892.8
152.5°	1026.6	1031.5	1051.1	1070.7	1051.1	1031.5	1026.6	989.1	939.1	914.1	894.9
155°	1003.6	1006.9	1019.8	1032.8	1019.8	1006.9	1003.6	973.8	934.0	914.1	899.5
157.5°	983.7	986.0	995.1	1004.2	995.1	986.0	983.7	960.5	929.6	914.1	904.1
160°	973.8	975.1	980.4	985.5	980.4	975.1	973.8	953.9	927.4	914.1	906.2
162.5°	964.4	965.6	970.6	975.6	970.6	965.6	964.4	947.7	925.3	914.1	908.4
165°	950.2	951.5	956.8	961.9	956.8	951.5	950.2	938.1	922.1	914.1	911.5
167.5°	943.9	944.5	946.7	948.9	946.7	944.5	943.9	936.0	925.6	920.3	918.1
170°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	936.0	925.6	920.3	920.2
172.5°	938.9	938.4	936.5	934.6	936.5	938.4	938.9	932.8	924.5	920.3	920.3
175°	932.2	932.2	932.2	932.2	932.2	932.2	932.2	928.2	922.9	920.3	921.5
177.5°	930.9	930.3	928.1	925.9	928.1	930.3	930.9	927.8	923.7	921.6	922.6
180°	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1046.0	1051.1	1054.1	1058.1	1068.1
5°	1006.0	1025.0	1031.1	1046.0	1064.0
7.5°	917.8	975.9	991.9	1028.0	1056.1
10°	832.7	890.7	918.8	1004.0	1046.0
12.5°	789.5	823.6	842.6	961.8	1032.1
15°	762.4	786.5	800.6	905.8	1016.0
17.5°	741.4	758.5	768.5	850.7	993.9
20°	728.4	736.4	745.4	810.5	968.9
22.5°	719.4	714.4	721.4	782.6	934.8
25°	713.4	694.3	702.4	760.4	894.7
27.5°	718.4	676.3	679.4	740.4	852.7
30°	719.4	654.3	655.3	719.4	805.6
32.5°	712.4	631.3	632.3	693.3	752.5
35°	695.3	604.2	603.2	663.3	680.4
37.5°	672.3	575.1	575.1	630.3	601.2
40°	644.2	546.1	549.1	587.1	531.1
42.5°	610.1	515.0	519.0	530.1	479.0
45°	573.1	485.0	487.9	447.9	438.8
47.5°	532.1	453.9	454.9	371.7	425.8
50°	483.0	421.8	417.8	318.6	424.8
52.5°	439.8	386.7	374.7	288.5	385.8
55°	397.8	349.7	323.6	265.5	357.7
57.5°	360.8	301.6	276.6	238.4	351.7
60°	326.6	254.5	235.5	209.4	322.6
62.5°	298.6	219.4	215.4	189.3	292.5
65°	268.5	195.4	194.4	172.3	248.5
67.5°	239.4	179.4	178.4	156.3	189.3
70°	208.4	162.3	160.4	139.2	140.2
72.5°	176.4	143.3	141.2	125.2	116.2
75°	144.3	121.2	120.2	109.3	94.2
77.5°	113.2	96.2	98.2	88.1	69.1
80°	81.2	70.1	72.1	63.1	52.1
82.5°	54.1	46.1	48.1	40.0	35.1
85°	30.1	26.1	27.1	21.0	16.0
87.5°	14.0	12.1	12.1	8.0	5.0
90°	27.4	17.4	16.1	11.2	6.2
92.5°	168.6	119.9	109.4	67.1	24.9
95°	414.9	233.7	214.3	137.0	59.7
97.5°	558.9	256.7	239.6	171.4	103.2
100°	611.2	275.9	260.5	198.6	136.8
102.5°	635.3	295.2	280.8	223.1	165.3
105°	653.2	323.8	311.5	262.6	213.7
107.5°	656.5	366.0	354.7	309.1	263.4
110°	651.5	389.6	379.4	338.1	297.0



TEST NUMBER: P935087

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	651.7	418.2	408.5	369.2	330.0
115°	657.7	461.0	452.0	415.8	379.7
117.5°	669.8	502.7	494.5	461.6	428.8
120°	679.9	527.0	519.2	488.3	457.4
122.5°	694.1	555.6	547.8	516.5	485.4
125°	713.4	592.2	585.2	556.7	528.2
127.5°	732.7	627.7	620.5	591.7	563.0
130°	746.8	651.3	643.5	612.6	581.7
132.5°	758.2	670.5	662.7	631.9	600.9
135°	770.6	692.9	685.8	657.7	629.5
137.5°	789.2	721.5	714.5	686.5	658.7
140°	800.6	740.7	734.4	708.7	683.0
142.5°	810.1	755.1	749.1	725.4	701.6
145°	822.6	776.8	771.6	750.9	730.2
147.5°	840.7	804.1	799.0	778.9	758.8
150°	850.3	818.4	813.8	795.6	777.4
152.5°	856.6	827.8	824.3	810.5	796.7
155°	870.2	848.2	845.6	835.4	825.3
157.5°	883.9	868.7	866.2	856.4	846.4
160°	890.1	878.1	876.2	868.4	860.6
162.5°	896.7	888.0	886.5	880.8	875.0
165°	906.3	902.3	901.0	895.7	890.5
167.5°	913.6	910.3	909.7	907.3	904.8
170°	919.9	919.7	919.1	916.6	914.1
172.5°	920.3	920.3	920.2	919.6	919.1
175°	924.0	925.9	925.9	925.9	925.9
177.5°	924.5	925.9	925.9	925.9	925.9
180°	925.9	925.9	925.9	925.9	925.9



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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	9.31	10.03	10.41	11.12	12.64	12.13	12.85	13.24	13.95	15.46
	3H	9.78	10.42	10.89	11.52	13.05	13.47	14.11	14.58	15.21	16.74
	4H	9.96	10.57	11.08	11.68	13.21	13.90	14.51	15.02	15.62	17.16
	6H	10.07	10.63	11.20	11.74	13.29	14.18	14.74	15.31	15.85	17.40
	8H	10.07	10.60	11.20	11.73	13.27	14.25	14.78	15.38	15.91	17.45
	12H	10.03	10.54	11.17	11.66	13.22	14.28	14.79	15.42	15.91	17.47
4H	2H	10.32	10.93	11.45	12.04	13.58	12.53	13.13	13.65	14.24	15.78
	3H	11.34	11.84	12.47	12.98	14.53	14.02	14.52	15.15	15.66	17.21
	4H	11.61	12.07	12.74	13.20	14.76	14.54	15.00	15.67	16.13	17.69
	6H	11.72	12.12	12.87	13.27	14.83	14.89	15.29	16.04	16.44	18.00
	8H	11.72	12.10	12.87	13.24	14.81	14.99	15.37	16.14	16.50	18.08
	12H	11.68	12.02	12.84	13.17	14.75	15.04	15.38	16.20	16.53	18.11
8H	4H	12.05	12.42	13.19	13.56	15.13	14.65	15.02	15.79	16.16	17.74
	6H	12.30	12.61	13.47	13.79	15.36	15.08	15.39	16.24	16.57	18.14
	8H	12.34	12.61	13.51	13.77	15.36	15.23	15.50	16.40	16.66	18.25
	12H	12.32	12.56	13.49	13.71	15.34	15.32	15.55	16.49	16.71	18.34
12H	4H	12.05	12.38	13.21	13.53	15.11	14.61	14.94	15.77	16.09	17.68
	6H	12.36	12.63	13.53	13.79	15.38	15.07	15.34	16.24	16.50	18.10
	8H	12.42	12.66	13.59	13.81	15.44	15.23	15.46	16.40	16.62	18.25