

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: P935052

Luminaire Tested: SQ4-FA-100U-050D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935052
REPORT IS A COMBINATION OF REPORTS P933740 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

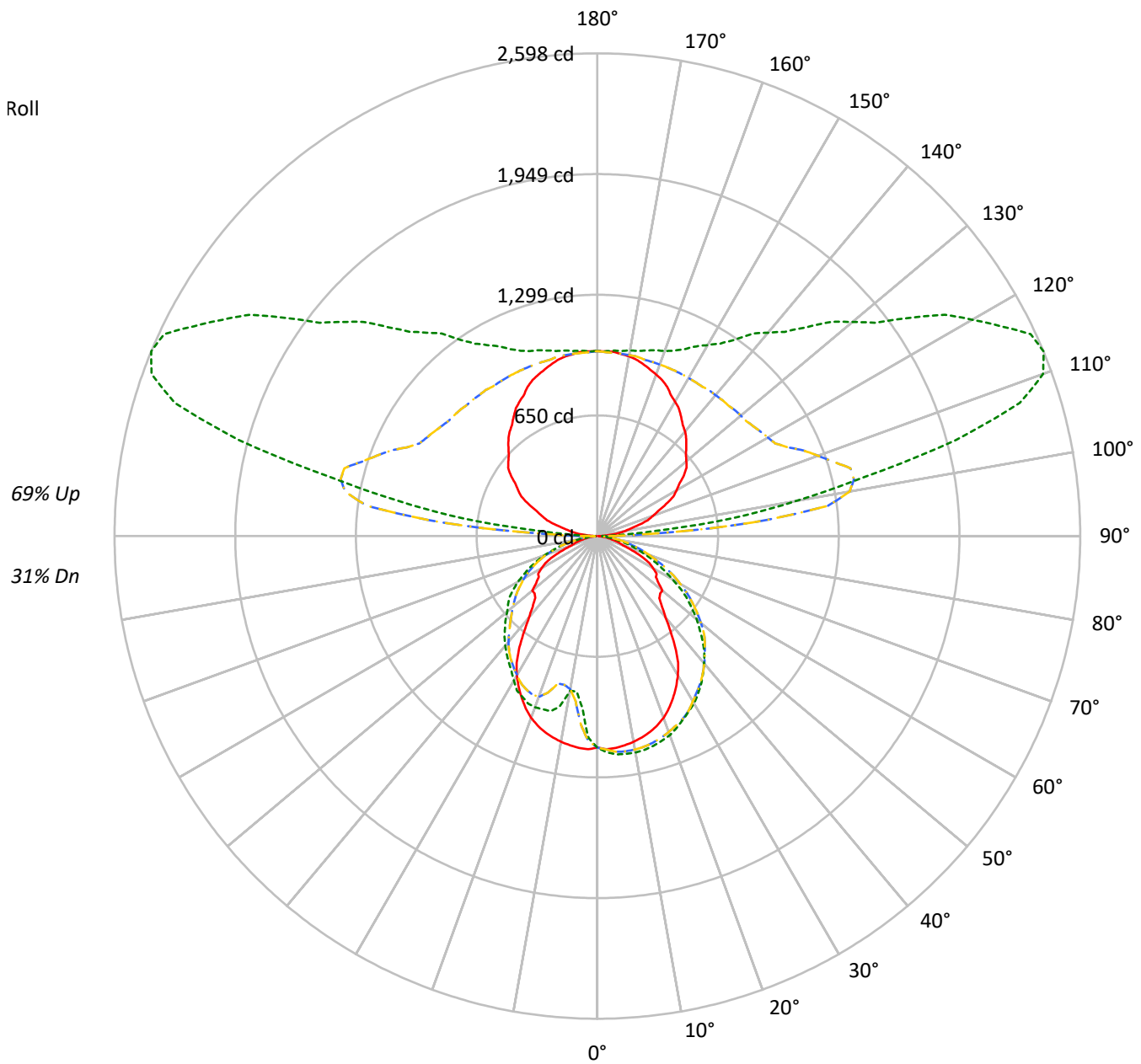
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9408.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 82.4
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

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	5282	5282	5282	5282
5°	5322	5332	5322	4193
10°	5286	5253	5286	3755
15°	5229	5138	5229	4291
20°	5119	5004	5119	4300
25°	4895	4807	4895	4209
30°	4606	4644	4606	4009
35°	4106	4437	4106	3789
40°	3422	4194	3422	3623
45°	3057	3910	3057	3431
50°	3248	3571	3248	3240
55°	3056	3205	3056	3129
60°	3150	2722	3150	2866
65°	2856	2250	2856	2515
70°	1978	1793	1978	2109
75°	1735	1326	1735	1587
80°	1397	876	1397	954
85°	806	464	806	394

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	1.1
10°-20°	291.8	3.1
20°-30°	451.0	4.8
30°-40°	538.4	5.7
40°-50°	541.6	5.8
50°-60°	471.3	5.0
60°-70°	334.1	3.6
70°-80°	176.8	1.9
80°-90°	47.8	0.5
90°-100°	485.2	5.2
100°-110°	1275.5	13.6
110°-120°	1322.6	14.1
120°-130°	1060.9	11.3
130°-140°	832.4	8.8
140°-150°	638.9	6.8
150°-160°	460.1	4.9
160°-170°	281.5	3.0
170°-180°	95.1	1.0
0°-30°	845.6	9.0
0°-40°	1384.0	14.7
0°-60°	2396.9	25.5
0°-90°	2955.6	31.4
90°-120°	3083.3	32.8
90°-150°	5615.6	59.7
90°-180°	6452.0	68.6
0°-180°	9408.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1138	1138	1138	1138	1138	
5°	1144	1179	1144	927	1144	109
15°	1092	1169	1092	976	1092	307
25°	962	1090	962	954	962	442
35°	731	973	731	830	731	452
45°	472	801	472	703	472	378
55°	384	591	384	577	384	353
65°	267	356	267	398	267	255
75°	101	169	101	202	101	106
85°	17	43	17	37	17	23
90°	7	25	7	25	7	6
95°	64	293	64	293	64	71
105°	230	1997	230	1997	230	244
115°	408	2572	408	2572	408	403
125°	568	2048	568	2048	568	504
135°	677	1589	677	1589	677	524
145°	785	1289	785	1289	785	492
155°	887	1110	887	1110	887	408
165°	957	1034	957	1034	957	270
175°	995	1002	995	1002	995	94
180°	995	995	995	995	995	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1148.1	1148.1	1154.6	1156.8	1156.8	1153.5	1150.3	1153.5	1163.2	1166.4	1165.4
5°	1143.9	1152.5	1164.4	1166.4	1168.6	1167.6	1165.4	1167.6	1178.3	1180.5	1181.5
7.5°	1135.2	1151.4	1166.4	1169.7	1172.9	1169.7	1168.6	1170.8	1181.5	1183.7	1183.7
10°	1124.4	1147.1	1164.4	1166.4	1169.7	1166.4	1166.4	1170.8	1181.5	1183.7	1184.7
12.5°	1109.3	1140.6	1156.8	1158.9	1163.2	1162.2	1161.1	1165.4	1176.2	1178.3	1178.3
15°	1092.2	1128.8	1143.9	1146.0	1153.5	1151.4	1151.4	1155.7	1167.6	1170.8	1169.7
17.5°	1068.5	1113.7	1130.9	1134.2	1139.5	1138.5	1139.5	1143.9	1154.6	1156.8	1157.8
20°	1041.5	1093.2	1113.7	1116.9	1122.3	1122.3	1122.3	1127.7	1138.5	1142.7	1142.7
22.5°	1004.9	1071.7	1093.2	1095.4	1101.9	1101.9	1104.0	1111.5	1121.2	1122.3	1122.3
25°	961.8	1048.0	1066.3	1072.7	1079.2	1082.4	1085.7	1090.0	1093.2	1092.2	1093.2
27.5°	916.6	1017.8	1041.5	1045.8	1054.4	1057.7	1062.0	1063.1	1064.1	1067.3	1065.3
30°	866.0	975.8	1011.4	1015.7	1029.7	1031.9	1027.5	1029.7	1035.1	1037.2	1039.4
32.5°	808.9	913.3	980.1	989.9	1002.8	996.3	995.2	998.5	1007.0	1007.0	1009.2
35°	731.3	864.9	951.1	959.7	969.4	961.8	966.2	967.2	972.6	975.8	974.8
37.5°	646.3	822.9	920.9	927.4	934.9	925.2	931.6	934.9	939.2	937.0	937.0
40°	570.9	757.1	885.4	889.6	896.1	888.6	895.0	897.2	899.4	897.2	896.1
42.5°	514.8	685.0	847.6	853.0	848.7	854.2	856.2	860.6	857.4	853.0	853.0
45°	471.8	665.6	806.7	813.2	806.7	815.4	818.6	818.6	808.9	806.7	805.6
47.5°	457.8	626.8	765.8	765.8	762.5	773.4	778.7	771.2	761.5	758.3	758.3
50°	456.7	583.8	709.8	705.5	720.5	733.5	728.1	720.5	713.0	701.2	701.2
52.5°	414.7	531.0	637.7	653.8	677.5	685.0	676.4	668.9	656.0	650.5	646.3
55°	384.5	476.1	571.9	604.3	629.0	638.7	622.6	615.0	595.6	592.4	590.2
57.5°	378.1	396.4	511.6	552.5	582.7	581.6	571.9	557.9	541.8	538.6	537.4
60°	346.8	286.5	446.9	495.5	526.7	523.5	514.8	501.9	486.9	484.7	482.5
62.5°	314.5	207.9	373.7	428.6	472.8	471.8	464.2	444.9	434.0	428.6	424.4
65°	267.1	174.5	266.0	356.5	420.0	422.2	406.1	392.0	380.2	373.7	372.7
67.5°	203.6	142.2	179.9	297.3	369.5	367.3	346.8	340.4	325.3	322.1	315.6
70°	150.8	94.8	124.9	241.3	319.9	314.5	298.3	290.8	276.8	269.2	265.0
72.5°	124.9	76.4	91.5	187.4	269.2	262.8	248.8	240.2	228.4	221.9	217.5
75°	101.3	80.8	70.0	138.9	218.7	214.3	201.4	192.8	183.1	174.5	175.5
77.5°	74.4	75.4	56.0	102.3	173.4	166.9	159.4	148.6	144.3	135.7	135.7
80°	56.0	59.3	42.0	70.0	124.9	124.9	118.4	111.0	103.4	99.1	99.1
82.5°	37.7	37.7	31.2	44.2	85.1	81.8	77.6	75.4	71.1	68.9	68.9
85°	17.3	21.5	19.4	26.9	46.3	48.5	48.5	46.3	45.2	43.1	44.2
87.5°	5.4	9.7	11.9	15.1	23.7	24.8	25.9	25.9	25.9	26.9	26.9
90°	6.7	12.0	17.3	18.7	29.4	43.6	50.7	45.1	33.8	25.4	25.4
92.5°	26.7	72.2	117.6	129.0	181.2	251.0	285.9	250.5	180.0	127.0	121.9
95°	64.2	147.3	230.4	251.2	446.0	705.8	835.7	745.7	565.8	430.9	415.6
97.5°	110.9	184.2	257.6	275.9	600.8	1033.9	1250.5	1193.7	1080.0	994.7	965.6
100°	146.9	213.4	280.0	296.6	657.1	1137.8	1378.1	1382.3	1390.6	1396.8	1362.1
102.5°	177.7	239.7	301.8	317.3	682.9	1170.4	1414.2	1486.6	1631.5	1740.2	1710.5
105°	229.8	282.3	334.9	348.0	702.1	1174.1	1410.1	1572.5	1897.3	2141.0	2125.0
107.5°	283.2	332.2	381.2	393.5	705.7	1121.9	1330.0	1556.5	2009.6	2349.3	2353.2
110°	319.3	363.5	407.8	418.8	700.3	1075.5	1263.2	1516.5	2022.9	2402.8	2419.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	354.7	396.8	439.1	449.6	700.5	1035.1	1202.4	1461.6	1980.0	2368.8	2394.3
115°	408.2	447.0	486.0	495.7	707.0	988.7	1129.6	1379.3	1878.7	2253.2	2288.6
117.5°	460.9	496.3	531.6	540.4	720.1	959.7	1079.5	1304.8	1755.5	2093.5	2132.8
120°	491.7	524.9	558.2	566.4	730.8	949.9	1059.5	1265.4	1677.1	1986.0	2024.1
122.5°	521.7	555.3	588.8	597.2	746.1	944.7	1044.1	1229.5	1600.3	1878.5	1916.1
125°	567.8	598.4	629.0	636.6	766.9	940.6	1027.4	1184.9	1499.9	1736.2	1770.9
127.5°	605.2	636.1	667.0	674.7	787.6	938.1	1013.4	1148.6	1419.1	1621.9	1651.1
130°	625.2	658.5	691.7	700.1	802.7	939.6	1008.0	1128.4	1369.2	1549.8	1576.8
132.5°	645.9	679.2	712.4	720.8	815.0	940.6	1003.3	1111.1	1326.6	1488.3	1512.5
135°	676.7	707.0	737.3	744.9	828.4	939.7	995.3	1085.6	1266.1	1401.5	1422.4
137.5°	708.1	738.0	768.1	775.5	848.4	945.5	994.0	1070.2	1222.9	1337.3	1354.4
140°	734.1	761.7	789.3	796.3	860.6	946.4	989.3	1055.2	1187.1	1285.9	1301.9
142.5°	754.2	779.7	805.2	811.6	870.9	949.8	989.3	1047.2	1163.0	1249.9	1263.6
145°	784.9	807.2	829.5	835.0	884.3	949.9	982.6	1030.0	1124.7	1195.7	1206.1
147.5°	815.6	837.3	859.0	864.4	903.9	956.4	982.6	1019.9	1094.4	1150.3	1158.9
150°	835.7	855.3	874.9	879.8	914.1	959.7	982.6	1014.1	1077.1	1124.3	1131.3
152.5°	856.4	871.3	886.1	889.8	920.7	962.0	982.6	1009.5	1063.3	1103.6	1108.9
155°	887.1	898.1	909.1	911.8	935.4	966.9	982.6	1004.0	1046.8	1078.8	1082.3
157.5°	909.8	920.5	931.2	933.9	950.1	971.8	982.6	999.3	1032.5	1057.5	1059.9
160°	925.2	933.6	941.8	943.9	956.9	974.0	982.6	996.9	1025.4	1046.8	1048.2
162.5°	940.6	946.8	953.1	954.6	963.9	976.4	982.6	994.7	1018.7	1036.8	1038.1
165°	957.3	962.9	968.5	969.9	974.2	979.8	982.6	991.2	1008.5	1021.4	1022.9
167.5°	972.6	975.2	978.0	978.6	982.1	986.9	989.3	994.9	1006.2	1014.7	1015.2
170°	982.6	985.3	988.0	988.7	988.9	989.1	989.3	994.9	1006.2	1014.7	1014.7
172.5°	988.0	988.6	989.1	989.3	989.3	989.3	989.3	993.8	1002.7	1009.4	1008.9
175°	995.3	995.3	995.3	995.3	993.3	990.7	989.3	992.1	997.7	1002.0	1002.0
177.5°	995.3	995.3	995.3	995.3	993.8	991.7	990.7	992.9	997.3	1000.7	1000.1
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1167.6	1164.4	1167.6	1165.4	1166.4	1163.2	1153.5	1150.3	1153.5	1156.8	1156.8
5°	1181.5	1179.4	1181.5	1181.5	1180.5	1178.3	1167.6	1165.4	1167.6	1168.6	1166.4
7.5°	1185.9	1182.7	1185.9	1183.7	1183.7	1181.5	1170.8	1168.6	1169.7	1172.9	1169.7
10°	1185.9	1182.7	1185.9	1184.7	1183.7	1181.5	1170.8	1166.4	1166.4	1169.7	1166.4
12.5°	1180.5	1178.3	1180.5	1178.3	1178.3	1176.2	1165.4	1161.1	1162.2	1163.2	1158.9
15°	1171.8	1168.6	1171.8	1169.7	1170.8	1167.6	1155.7	1151.4	1151.4	1153.5	1146.0
17.5°	1158.9	1154.6	1158.9	1157.8	1156.8	1154.6	1143.9	1139.5	1138.5	1139.5	1134.2
20°	1143.9	1140.6	1143.9	1142.7	1142.7	1138.5	1127.7	1122.3	1122.3	1122.3	1116.9
22.5°	1120.2	1116.9	1120.2	1122.3	1122.3	1121.2	1111.5	1104.0	1101.9	1101.9	1095.4
25°	1093.2	1090.0	1093.2	1093.2	1092.2	1093.2	1090.0	1085.7	1082.4	1079.2	1072.7
27.5°	1067.3	1065.3	1067.3	1065.3	1067.3	1064.1	1063.1	1062.0	1057.7	1054.4	1045.8
30°	1041.5	1039.4	1041.5	1039.4	1037.2	1035.1	1029.7	1027.5	1031.9	1029.7	1015.7
32.5°	1009.2	1007.0	1009.2	1009.2	1007.0	1007.0	998.5	995.2	996.3	1002.8	989.9
35°	975.8	972.6	975.8	974.8	975.8	972.6	967.2	966.2	961.8	969.4	959.7
37.5°	937.0	933.8	937.0	937.0	937.0	939.2	934.9	931.6	925.2	934.9	927.4
40°	897.2	892.9	897.2	896.1	897.2	899.4	897.2	895.0	888.6	896.1	889.6
42.5°	852.0	850.9	852.0	853.0	853.0	857.4	860.6	856.2	854.2	848.7	853.0
45°	803.5	801.3	803.5	805.6	806.7	808.9	818.6	818.6	815.4	806.7	813.2
47.5°	751.8	746.4	751.8	758.3	758.3	761.5	771.2	778.7	773.4	762.5	765.8
50°	696.8	698.0	696.8	701.2	701.2	713.0	720.5	728.1	733.5	720.5	705.5
52.5°	643.0	641.9	643.0	646.3	650.5	656.0	668.9	676.4	685.0	677.5	653.8
55°	589.2	591.3	589.2	590.2	592.4	595.6	615.0	622.6	638.7	629.0	604.3
57.5°	535.3	532.1	535.3	537.4	538.6	541.8	557.9	571.9	581.6	582.7	552.5
60°	472.8	468.6	472.8	482.5	484.7	486.9	501.9	514.8	523.5	526.7	495.5
62.5°	417.9	410.3	417.9	424.4	428.6	434.0	444.9	464.2	471.8	472.8	428.6
65°	359.7	356.5	359.7	372.7	373.7	380.2	392.0	406.1	422.2	420.0	356.5
67.5°	307.0	307.0	307.0	315.6	322.1	325.3	340.4	346.8	367.3	369.5	297.3
70°	258.5	257.4	258.5	265.0	269.2	276.8	290.8	298.3	314.5	319.9	241.3
72.5°	212.2	211.1	212.2	217.5	221.9	228.4	240.2	248.8	262.8	269.2	187.4
75°	171.3	169.1	171.3	175.5	174.5	183.1	192.8	201.4	214.3	218.7	138.9
77.5°	131.4	131.4	131.4	135.7	135.7	144.3	148.6	159.4	166.9	173.4	102.3
80°	98.0	96.9	98.0	99.1	99.1	103.4	111.0	118.4	124.9	124.9	70.0
82.5°	68.9	66.8	68.9	68.9	68.9	71.1	75.4	77.6	81.8	85.1	44.2
85°	43.1	43.1	43.1	44.2	43.1	45.2	46.3	48.5	48.5	46.3	26.9
87.5°	28.0	26.9	28.0	26.9	26.9	25.9	25.9	25.9	24.8	23.7	15.1
90°	25.4	25.4	25.4	25.4	25.4	33.8	45.1	50.7	43.6	29.4	18.7
92.5°	101.7	81.5	101.7	121.9	127.0	180.0	250.5	285.9	251.0	181.2	129.0
95°	354.4	293.3	354.4	415.6	430.9	565.8	745.7	835.7	705.8	446.0	251.2
97.5°	849.2	732.8	849.2	965.6	994.7	1080.0	1193.7	1250.5	1033.9	600.8	275.9
100°	1223.5	1084.9	1223.5	1362.1	1396.8	1390.6	1382.3	1378.1	1137.8	657.1	296.6
102.5°	1591.7	1472.9	1591.7	1710.5	1740.2	1631.5	1486.6	1414.2	1170.4	682.9	317.3
105°	2061.1	1997.3	2061.1	2125.0	2141.0	1897.3	1572.5	1410.1	1174.1	702.1	348.0
107.5°	2368.7	2384.1	2368.7	2353.2	2349.3	2009.6	1556.5	1330.0	1121.9	705.7	393.5
110°	2485.9	2552.4	2485.9	2419.4	2402.8	2022.9	1516.5	1263.2	1075.5	700.3	418.8



TEST NUMBER: P935052

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2496.4	2598.5	2496.4	2394.3	2368.8	1980.0	1461.6	1202.4	1035.1	700.5	449.6
115°	2430.2	2571.8	2430.2	2288.6	2253.2	1878.7	1379.3	1129.6	988.7	707.0	495.7
117.5°	2289.8	2446.9	2289.8	2132.8	2093.5	1755.5	1304.8	1079.5	959.7	720.1	540.4
120°	2176.8	2329.3	2176.8	2024.1	1986.0	1677.1	1265.4	1059.5	949.9	730.8	566.4
122.5°	2066.6	2217.1	2066.6	1916.1	1878.5	1600.3	1229.5	1044.1	944.7	746.1	597.2
125°	1909.5	2048.1	1909.5	1770.9	1736.2	1499.9	1184.9	1027.4	940.6	766.9	636.6
127.5°	1768.1	1885.1	1768.1	1651.1	1621.9	1419.1	1148.6	1013.4	938.1	787.6	674.7
130°	1684.9	1792.9	1684.9	1576.8	1549.8	1369.2	1128.4	1008.0	939.6	802.7	700.1
132.5°	1609.3	1706.1	1609.3	1512.5	1488.3	1326.6	1111.1	1003.3	940.6	815.0	720.8
135°	1505.8	1589.2	1505.8	1422.4	1401.5	1266.1	1085.6	995.3	939.7	828.4	744.9
137.5°	1422.7	1491.0	1422.7	1354.4	1337.3	1222.9	1070.2	994.0	945.5	848.4	775.5
140°	1365.7	1429.5	1365.7	1301.9	1285.9	1187.1	1055.2	989.3	946.4	860.6	796.3
142.5°	1318.5	1373.5	1318.5	1263.6	1249.9	1163.0	1047.2	989.3	949.8	870.9	811.6
145°	1247.7	1289.2	1247.7	1206.1	1195.7	1124.7	1030.0	982.6	949.9	884.3	835.0
147.5°	1193.3	1227.8	1193.3	1158.9	1150.3	1094.4	1019.9	982.6	956.4	903.9	864.4
150°	1159.1	1187.1	1159.1	1131.3	1124.3	1077.1	1014.1	982.6	959.7	914.1	879.8
152.5°	1129.9	1150.9	1129.9	1108.9	1103.6	1063.3	1009.5	982.6	962.0	920.7	889.8
155°	1096.3	1110.2	1096.3	1082.3	1078.8	1046.8	1004.0	982.6	966.9	935.4	911.8
157.5°	1069.7	1079.5	1069.7	1059.9	1057.5	1032.5	999.3	982.6	971.8	950.1	933.9
160°	1053.9	1059.5	1053.9	1048.2	1046.8	1025.4	996.9	982.6	974.0	956.9	943.9
162.5°	1043.4	1048.8	1043.4	1038.1	1036.8	1018.7	994.7	982.6	976.4	963.9	954.6
165°	1028.5	1034.1	1028.5	1022.9	1021.4	1008.5	991.2	982.6	979.8	974.2	969.9
167.5°	1017.6	1020.1	1017.6	1015.2	1014.7	1006.2	994.9	989.3	986.9	982.1	978.6
170°	1014.7	1014.7	1014.7	1014.7	1014.7	1006.2	994.9	989.3	989.1	988.9	988.7
172.5°	1006.8	1004.7	1006.8	1008.9	1009.4	1002.7	993.8	989.3	989.3	989.3	989.3
175°	1002.0	1002.0	1002.0	1002.0	1002.0	997.7	992.1	989.3	990.7	993.3	995.3
177.5°	997.7	995.3	997.7	1000.1	1000.7	997.3	992.9	990.7	991.7	993.8	995.3
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P935052

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1154.6	1148.1	1148.1	1137.4	1133.1	1129.8	1124.4	1108.3	1104.0	1099.7	1106.1
5°	1164.4	1152.5	1143.9	1124.4	1108.3	1101.9	1081.4	1042.6	1016.8	997.3	986.6
7.5°	1166.4	1151.4	1135.2	1105.1	1066.3	1049.0	986.6	915.5	896.1	878.9	868.1
10°	1164.4	1147.1	1124.4	1079.2	987.7	957.5	895.0	848.7	836.9	833.7	836.9
12.5°	1156.8	1140.6	1109.3	1034.0	905.8	885.4	848.7	821.8	819.6	825.0	854.2
15°	1143.9	1128.8	1092.2	973.6	860.6	845.5	819.6	810.0	821.8	859.5	946.7
17.5°	1130.9	1113.7	1068.5	914.5	826.1	815.4	797.1	816.4	883.2	933.8	962.9
20°	1113.7	1093.2	1041.5	871.3	801.3	791.7	783.0	870.3	920.9	939.2	955.3
22.5°	1093.2	1071.7	1004.9	841.2	775.5	768.0	773.4	900.4	920.9	933.8	947.8
25°	1066.3	1048.0	961.8	817.5	755.1	746.4	766.9	897.2	909.1	912.3	940.3
27.5°	1041.5	1017.8	916.6	795.9	730.2	727.0	772.2	883.2	891.8	895.0	925.2
30°	1011.4	975.8	866.0	773.4	704.4	703.3	773.4	866.0	863.8	872.5	902.6
32.5°	980.1	913.3	808.9	745.3	679.7	678.5	765.8	840.1	837.9	849.8	872.5
35°	951.1	864.9	731.3	713.0	648.4	649.5	747.5	810.0	811.0	821.8	835.8
37.5°	920.9	822.9	646.3	677.5	618.2	618.2	722.7	782.0	779.8	783.0	802.4
40°	885.4	757.1	570.9	631.2	590.2	587.0	692.6	751.8	744.2	743.2	770.1
42.5°	847.6	685.0	514.8	569.8	557.9	553.6	656.0	715.2	701.2	704.4	738.8
45°	806.7	665.6	471.8	481.5	524.5	521.3	616.1	673.2	663.4	672.1	707.6
47.5°	765.8	626.8	457.8	399.6	489.0	487.9	571.9	632.2	626.8	635.5	673.2
50°	709.8	583.8	456.7	342.5	449.1	453.5	519.1	592.4	592.4	599.9	639.8
52.5°	637.7	531.0	414.7	310.2	402.8	415.7	472.8	557.9	560.1	567.6	603.1
55°	571.9	476.1	384.5	285.4	347.9	375.9	427.6	522.4	526.7	534.2	566.5
57.5°	511.6	396.4	378.1	256.3	297.3	324.2	387.8	487.9	490.1	496.5	527.7
60°	446.9	286.5	346.8	225.1	253.1	273.6	351.2	446.9	454.5	458.8	485.7
62.5°	373.7	207.9	314.5	203.6	231.6	235.8	321.0	408.2	417.9	421.2	437.3
65°	266.0	174.5	267.1	185.3	208.9	210.1	288.7	368.3	377.0	382.4	394.2
67.5°	179.9	142.2	203.6	168.0	191.8	192.8	257.4	322.1	333.9	338.2	345.8
70°	124.9	94.8	150.8	149.7	172.3	174.5	224.0	280.0	290.8	294.1	298.3
72.5°	91.5	76.4	124.9	134.7	151.8	154.0	189.6	232.6	243.4	246.7	248.8
75°	70.0	80.8	101.3	117.4	129.3	130.3	155.1	189.6	197.1	199.2	200.3
77.5°	56.0	75.4	74.4	94.8	105.5	103.4	121.7	146.5	153.0	153.0	153.0
80°	42.0	59.3	56.0	67.9	77.6	75.4	87.2	104.5	106.6	108.8	107.7
82.5°	31.2	37.7	37.7	43.1	51.7	49.5	58.1	67.9	67.9	67.9	70.0
85°	19.4	21.5	17.3	22.6	29.1	28.0	32.3	36.6	37.7	37.7	35.6
87.5°	11.9	9.7	5.4	8.6	12.9	12.9	15.1	16.1	15.1	15.1	15.1
90°	17.3	12.0	6.7	12.0	17.3	18.7	29.4	43.6	50.7	45.1	33.8
92.5°	117.6	72.2	26.7	72.2	117.6	129.0	181.2	251.0	285.9	250.5	180.0
95°	230.4	147.3	64.2	147.3	230.4	251.2	446.0	705.8	835.7	745.7	565.8
97.5°	257.6	184.2	110.9	184.2	257.6	275.9	600.8	1033.9	1250.5	1193.7	1080.0
100°	280.0	213.4	146.9	213.4	280.0	296.6	657.1	1137.8	1378.1	1382.3	1390.6
102.5°	301.8	239.7	177.7	239.7	301.8	317.3	682.9	1170.4	1414.2	1486.6	1631.5
105°	334.9	282.3	229.8	282.3	334.9	348.0	702.1	1174.1	1410.1	1572.5	1897.3
107.5°	381.2	332.2	283.2	332.2	381.2	393.5	705.7	1121.9	1330.0	1556.5	2009.6
110°	407.8	363.5	319.3	363.5	407.8	418.8	700.3	1075.5	1263.2	1516.5	2022.9



TEST NUMBER: P935052

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	439.1	396.8	354.7	396.8	439.1	449.6	700.5	1035.1	1202.4	1461.6	1980.0
115°	486.0	447.0	408.2	447.0	486.0	495.7	707.0	988.7	1129.6	1379.3	1878.7
117.5°	531.6	496.3	460.9	496.3	531.6	540.4	720.1	959.7	1079.5	1304.8	1755.5
120°	558.2	524.9	491.7	524.9	558.2	566.4	730.8	949.9	1059.5	1265.4	1677.1
122.5°	588.8	555.3	521.7	555.3	588.8	597.2	746.1	944.7	1044.1	1229.5	1600.3
125°	629.0	598.4	567.8	598.4	629.0	636.6	766.9	940.6	1027.4	1184.9	1499.9
127.5°	667.0	636.1	605.2	636.1	667.0	674.7	787.6	938.1	1013.4	1148.6	1419.1
130°	691.7	658.5	625.2	658.5	691.7	700.1	802.7	939.6	1008.0	1128.4	1369.2
132.5°	712.4	679.2	645.9	679.2	712.4	720.8	815.0	940.6	1003.3	1111.1	1326.6
135°	737.3	707.0	676.7	707.0	737.3	744.9	828.4	939.7	995.3	1085.6	1266.1
137.5°	768.1	738.0	708.1	738.0	768.1	775.5	848.4	945.5	994.0	1070.2	1222.9
140°	789.3	761.7	734.1	761.7	789.3	796.3	860.6	946.4	989.3	1055.2	1187.1
142.5°	805.2	779.7	754.2	779.7	805.2	811.6	870.9	949.8	989.3	1047.2	1163.0
145°	829.5	807.2	784.9	807.2	829.5	835.0	884.3	949.9	982.6	1030.0	1124.7
147.5°	859.0	837.3	815.6	837.3	859.0	864.4	903.9	956.4	982.6	1019.9	1094.4
150°	874.9	855.3	835.7	855.3	874.9	879.8	914.1	959.7	982.6	1014.1	1077.1
152.5°	886.1	871.3	856.4	871.3	886.1	889.8	920.7	962.0	982.6	1009.5	1063.3
155°	909.1	898.1	887.1	898.1	909.1	911.8	935.4	966.9	982.6	1004.0	1046.8
157.5°	931.2	920.5	909.8	920.5	931.2	933.9	950.1	971.8	982.6	999.3	1032.5
160°	941.8	933.6	925.2	933.6	941.8	943.9	956.9	974.0	982.6	996.9	1025.4
162.5°	953.1	946.8	940.6	946.8	953.1	954.6	963.9	976.4	982.6	994.7	1018.7
165°	968.5	962.9	957.3	962.9	968.5	969.9	974.2	979.8	982.6	991.2	1008.5
167.5°	978.0	975.2	972.6	975.2	978.0	978.6	982.1	986.9	989.3	994.9	1006.2
170°	988.0	985.3	982.6	985.3	988.0	988.7	988.9	989.1	989.3	994.9	1006.2
172.5°	989.1	988.6	988.0	988.6	989.1	989.3	989.3	989.3	989.3	993.8	1002.7
175°	995.3	995.3	995.3	995.3	995.3	995.3	993.3	990.7	989.3	992.1	997.7
177.5°	995.3	995.3	995.3	995.3	995.3	995.3	993.8	991.7	990.7	992.9	997.3
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P935052

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1098.6	1095.4	1099.7	1087.8	1099.7	1095.4	1098.6	1106.1	1099.7	1104.0	1108.3
5°	964.0	958.6	941.4	927.4	941.4	958.6	964.0	986.6	997.3	1016.8	1042.6
7.5°	861.6	857.4	853.0	844.4	853.0	857.4	861.6	868.1	878.9	896.1	915.5
10°	839.1	840.1	846.6	845.5	846.6	840.1	839.1	836.9	833.7	836.9	848.7
12.5°	897.2	906.9	942.4	940.3	942.4	906.9	897.2	854.2	825.0	819.6	821.8
15°	964.0	967.2	974.8	975.8	974.8	967.2	964.0	946.7	859.5	821.8	810.0
17.5°	970.4	971.5	976.9	976.9	976.9	971.5	970.4	962.9	933.8	883.2	816.4
20°	965.0	967.2	978.0	980.1	978.0	967.2	965.0	955.3	939.2	920.9	870.3
22.5°	962.9	967.2	975.8	974.8	975.8	967.2	962.9	947.8	933.8	920.9	900.4
25°	952.1	952.1	953.2	954.3	953.2	952.1	952.1	940.3	912.3	909.1	897.2
27.5°	929.5	931.6	938.1	937.0	938.1	931.6	929.5	925.2	895.0	891.8	883.2
30°	909.1	906.9	901.5	897.2	901.5	906.9	909.1	902.6	872.5	863.8	866.0
32.5°	874.5	869.2	863.8	860.6	863.8	869.2	874.5	872.5	849.8	837.9	840.1
35°	833.7	834.7	833.7	830.4	833.7	834.7	833.7	835.8	821.8	811.0	810.0
37.5°	804.6	806.7	805.6	801.3	805.6	806.7	804.6	802.4	783.0	779.8	782.0
40°	774.4	775.5	774.4	771.2	774.4	775.5	774.4	770.1	743.2	744.2	751.8
42.5°	745.3	744.2	741.0	738.8	741.0	744.2	745.3	738.8	704.4	701.2	715.2
45°	711.9	713.0	706.6	703.3	706.6	713.0	711.9	707.6	672.1	663.4	673.2
47.5°	678.5	678.5	673.2	669.9	673.2	678.5	678.5	673.2	635.5	626.8	632.2
50°	643.0	641.9	634.4	633.3	634.4	641.9	643.0	639.8	599.9	592.4	592.4
52.5°	602.1	602.1	603.1	605.3	603.1	602.1	602.1	603.1	567.6	560.1	557.9
55°	566.5	567.6	575.2	577.3	575.2	567.6	566.5	566.5	534.2	526.7	522.4
57.5°	529.9	529.9	535.3	535.3	535.3	529.9	529.9	527.7	496.5	490.1	487.9
60°	487.9	490.1	494.4	493.3	494.4	490.1	487.9	485.7	458.8	454.5	446.9
62.5°	443.7	445.9	446.9	444.9	446.9	445.9	443.7	437.3	421.2	417.9	408.2
65°	397.4	399.6	400.7	398.5	400.7	399.6	397.4	394.2	382.4	377.0	368.3
67.5°	350.0	349.0	347.9	352.2	347.9	349.0	350.0	345.8	338.2	333.9	322.1
70°	301.6	301.6	300.5	302.7	300.5	301.6	301.6	298.3	294.1	290.8	280.0
72.5°	249.9	248.8	253.1	249.9	253.1	248.8	249.9	248.8	246.7	243.4	232.6
75°	199.2	201.4	199.2	202.5	199.2	201.4	199.2	200.3	199.2	197.1	189.6
77.5°	151.8	154.0	151.8	151.8	151.8	154.0	151.8	153.0	153.0	153.0	146.5
80°	107.7	106.6	106.6	105.5	106.6	106.6	107.7	107.7	108.8	106.6	104.5
82.5°	68.9	67.9	67.9	70.0	67.9	67.9	68.9	70.0	67.9	67.9	67.9
85°	37.7	38.8	36.6	36.6	36.6	38.8	37.7	35.6	37.7	37.7	36.6
87.5°	14.0	12.9	12.9	12.9	12.9	12.9	14.0	15.1	15.1	15.1	16.1
90°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	33.8	45.1	50.7	43.6
92.5°	127.0	121.9	101.7	81.5	101.7	121.9	127.0	180.0	250.5	285.9	251.0
95°	430.9	415.6	354.4	293.3	354.4	415.6	430.9	565.8	745.7	835.7	705.8
97.5°	994.7	965.6	849.2	732.8	849.2	965.6	994.7	1080.0	1193.7	1250.5	1033.9
100°	1396.8	1362.1	1223.5	1084.9	1223.5	1362.1	1396.8	1390.6	1382.3	1378.1	1137.8
102.5°	1740.2	1710.5	1591.7	1472.9	1591.7	1710.5	1740.2	1631.5	1486.6	1414.2	1170.4
105°	2141.0	2125.0	2061.1	1997.3	2061.1	2125.0	2141.0	1897.3	1572.5	1410.1	1174.1
107.5°	2349.3	2353.2	2368.7	2384.1	2368.7	2353.2	2349.3	2009.6	1556.5	1330.0	1121.9
110°	2402.8	2419.4	2485.9	2552.4	2485.9	2419.4	2402.8	2022.9	1516.5	1263.2	1075.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2368.8	2394.3	2496.4	2598.5	2496.4	2394.3	2368.8	1980.0	1461.6	1202.4	1035.1
115°	2253.2	2288.6	2430.2	2571.8	2430.2	2288.6	2253.2	1878.7	1379.3	1129.6	988.7
117.5°	2093.5	2132.8	2289.8	2446.9	2289.8	2132.8	2093.5	1755.5	1304.8	1079.5	959.7
120°	1986.0	2024.1	2176.8	2329.3	2176.8	2024.1	1986.0	1677.1	1265.4	1059.5	949.9
122.5°	1878.5	1916.1	2066.6	2217.1	2066.6	1916.1	1878.5	1600.3	1229.5	1044.1	944.7
125°	1736.2	1770.9	1909.5	2048.1	1909.5	1770.9	1736.2	1499.9	1184.9	1027.4	940.6
127.5°	1621.9	1651.1	1768.1	1885.1	1768.1	1651.1	1621.9	1419.1	1148.6	1013.4	938.1
130°	1549.8	1576.8	1684.9	1792.9	1684.9	1576.8	1549.8	1369.2	1128.4	1008.0	939.6
132.5°	1488.3	1512.5	1609.3	1706.1	1609.3	1512.5	1488.3	1326.6	1111.1	1003.3	940.6
135°	1401.5	1422.4	1505.8	1589.2	1505.8	1422.4	1401.5	1266.1	1085.6	995.3	939.7
137.5°	1337.3	1354.4	1422.7	1491.0	1422.7	1354.4	1337.3	1222.9	1070.2	994.0	945.5
140°	1285.9	1301.9	1365.7	1429.5	1365.7	1301.9	1285.9	1187.1	1055.2	989.3	946.4
142.5°	1249.9	1263.6	1318.5	1373.5	1318.5	1263.6	1249.9	1163.0	1047.2	989.3	949.8
145°	1195.7	1206.1	1247.7	1289.2	1247.7	1206.1	1195.7	1124.7	1030.0	982.6	949.9
147.5°	1150.3	1158.9	1193.3	1227.8	1193.3	1158.9	1150.3	1094.4	1019.9	982.6	956.4
150°	1124.3	1131.3	1159.1	1187.1	1159.1	1131.3	1124.3	1077.1	1014.1	982.6	959.7
152.5°	1103.6	1108.9	1129.9	1150.9	1129.9	1108.9	1103.6	1063.3	1009.5	982.6	962.0
155°	1078.8	1082.3	1096.3	1110.2	1096.3	1082.3	1078.8	1046.8	1004.0	982.6	966.9
157.5°	1057.5	1059.9	1069.7	1079.5	1069.7	1059.9	1057.5	1032.5	999.3	982.6	971.8
160°	1046.8	1048.2	1053.9	1059.5	1053.9	1048.2	1046.8	1025.4	996.9	982.6	974.0
162.5°	1036.8	1038.1	1043.4	1048.8	1043.4	1038.1	1036.8	1018.7	994.7	982.6	976.4
165°	1021.4	1022.9	1028.5	1034.1	1028.5	1022.9	1021.4	1008.5	991.2	982.6	979.8
167.5°	1014.7	1015.2	1017.6	1020.1	1017.6	1015.2	1014.7	1006.2	994.9	989.3	986.9
170°	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1006.2	994.9	989.3	989.1
172.5°	1009.4	1008.9	1006.8	1004.7	1006.8	1008.9	1009.4	1002.7	993.8	989.3	989.3
175°	1002.0	1002.0	1002.0	1002.0	1002.0	1002.0	1002.0	997.7	992.1	989.3	990.7
177.5°	1000.7	1000.1	997.7	995.3	997.7	1000.1	1000.7	997.3	992.9	990.7	991.7
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1138.5	1138.5	1138.5	1138.5	1138.5
2.5°	1124.4	1129.8	1133.1	1137.4	1148.1
5°	1081.4	1101.9	1108.3	1124.4	1143.9
7.5°	986.6	1049.0	1066.3	1105.1	1135.2
10°	895.0	957.5	987.7	1079.2	1124.4
12.5°	848.7	885.4	905.8	1034.0	1109.3
15°	819.6	845.5	860.6	973.6	1092.2
17.5°	797.1	815.4	826.1	914.5	1068.5
20°	783.0	791.7	801.3	871.3	1041.5
22.5°	773.4	768.0	775.5	841.2	1004.9
25°	766.9	746.4	755.1	817.5	961.8
27.5°	772.2	727.0	730.2	795.9	916.6
30°	773.4	703.3	704.4	773.4	866.0
32.5°	765.8	678.5	679.7	745.3	808.9
35°	747.5	649.5	648.4	713.0	731.3
37.5°	722.7	618.2	618.2	677.5	646.3
40°	692.6	587.0	590.2	631.2	570.9
42.5°	656.0	553.6	557.9	569.8	514.8
45°	616.1	521.3	524.5	481.5	471.8
47.5°	571.9	487.9	489.0	399.6	457.8
50°	519.1	453.5	449.1	342.5	456.7
52.5°	472.8	415.7	402.8	310.2	414.7
55°	427.6	375.9	347.9	285.4	384.5
57.5°	387.8	324.2	297.3	256.3	378.1
60°	351.2	273.6	253.1	225.1	346.8
62.5°	321.0	235.8	231.6	203.6	314.5
65°	288.7	210.1	208.9	185.3	267.1
67.5°	257.4	192.8	191.8	168.0	203.6
70°	224.0	174.5	172.3	149.7	150.8
72.5°	189.6	154.0	151.8	134.7	124.9
75°	155.1	130.3	129.3	117.4	101.3
77.5°	121.7	103.4	105.5	94.8	74.4
80°	87.2	75.4	77.6	67.9	56.0
82.5°	58.1	49.5	51.7	43.1	37.7
85°	32.3	28.0	29.1	22.6	17.3
87.5°	15.1	12.9	12.9	8.6	5.4
90°	29.4	18.7	17.3	12.0	6.7
92.5°	181.2	129.0	117.6	72.2	26.7
95°	446.0	251.2	230.4	147.3	64.2
97.5°	600.8	275.9	257.6	184.2	110.9
100°	657.1	296.6	280.0	213.4	146.9
102.5°	682.9	317.3	301.8	239.7	177.7
105°	702.1	348.0	334.9	282.3	229.8
107.5°	705.7	393.5	381.2	332.2	283.2
110°	700.3	418.8	407.8	363.5	319.3



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CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	700.5	449.6	439.1	396.8	354.7
115°	707.0	495.7	486.0	447.0	408.2
117.5°	720.1	540.4	531.6	496.3	460.9
120°	730.8	566.4	558.2	524.9	491.7
122.5°	746.1	597.2	588.8	555.3	521.7
125°	766.9	636.6	629.0	598.4	567.8
127.5°	787.6	674.7	667.0	636.1	605.2
130°	802.7	700.1	691.7	658.5	625.2
132.5°	815.0	720.8	712.4	679.2	645.9
135°	828.4	744.9	737.3	707.0	676.7
137.5°	848.4	775.5	768.1	738.0	708.1
140°	860.6	796.3	789.3	761.7	734.1
142.5°	870.9	811.6	805.2	779.7	754.2
145°	884.3	835.0	829.5	807.2	784.9
147.5°	903.9	864.4	859.0	837.3	815.6
150°	914.1	879.8	874.9	855.3	835.7
152.5°	920.7	889.8	886.1	871.3	856.4
155°	935.4	911.8	909.1	898.1	887.1
157.5°	950.1	933.9	931.2	920.5	909.8
160°	956.9	943.9	941.8	933.6	925.2
162.5°	963.9	954.6	953.1	946.8	940.6
165°	974.2	969.9	968.5	962.9	957.3
167.5°	982.1	978.6	978.0	975.2	972.6
170°	988.9	988.7	988.0	985.3	982.6
172.5°	989.3	989.3	989.1	988.6	988.0
175°	993.3	995.3	995.3	995.3	995.3
177.5°	993.8	995.3	995.3	995.3	995.3
180°	995.3	995.3	995.3	995.3	995.3



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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	8.57	9.28	9.67	10.38	11.89	11.40	12.12	12.50	13.22	14.73
	3H	9.03	9.67	10.14	10.78	12.31	12.74	13.38	13.85	14.49	16.02
	4H	9.22	9.82	10.34	10.93	12.47	13.18	13.79	14.30	14.90	16.43
	6H	9.33	9.89	10.46	11.00	12.55	13.46	14.02	14.59	15.13	16.68
	8H	9.32	9.86	10.46	10.98	12.52	13.53	14.06	14.66	15.19	16.73
	12H	9.29	9.80	10.43	10.92	12.48	13.56	14.07	14.70	15.19	16.75
4H	2H	9.58	10.19	10.71	11.30	12.83	11.79	12.40	12.92	13.51	15.05
	3H	10.60	11.10	11.73	12.24	13.79	13.29	13.80	14.42	14.93	16.48
	4H	10.87	11.33	12.00	12.45	14.02	13.81	14.28	14.95	15.40	16.97
	6H	10.98	11.38	12.13	12.53	14.09	14.17	14.57	15.31	15.72	17.28
	8H	10.98	11.36	12.13	12.49	14.07	14.28	14.65	15.42	15.79	17.36
	12H	10.94	11.28	12.10	12.43	14.01	14.33	14.66	15.49	15.81	17.40
8H	4H	11.31	11.68	12.45	12.82	14.40	13.92	14.30	15.07	15.43	17.01
	6H	11.56	11.87	12.73	13.05	14.62	14.36	14.66	15.52	15.84	17.42
	8H	11.60	11.87	12.77	13.03	14.63	14.51	14.78	15.68	15.94	17.53
	12H	11.58	11.82	12.76	12.97	14.60	14.60	14.84	15.78	15.99	17.62
12H	4H	11.31	11.65	12.47	12.80	14.38	13.88	14.22	15.04	15.37	16.95
	6H	11.62	11.89	12.79	13.05	14.65	14.35	14.62	15.52	15.78	17.37
	8H	11.68	11.92	12.86	13.08	14.70	14.51	14.74	15.68	15.90	17.53