

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: P936050

Luminaire Tested: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936050
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

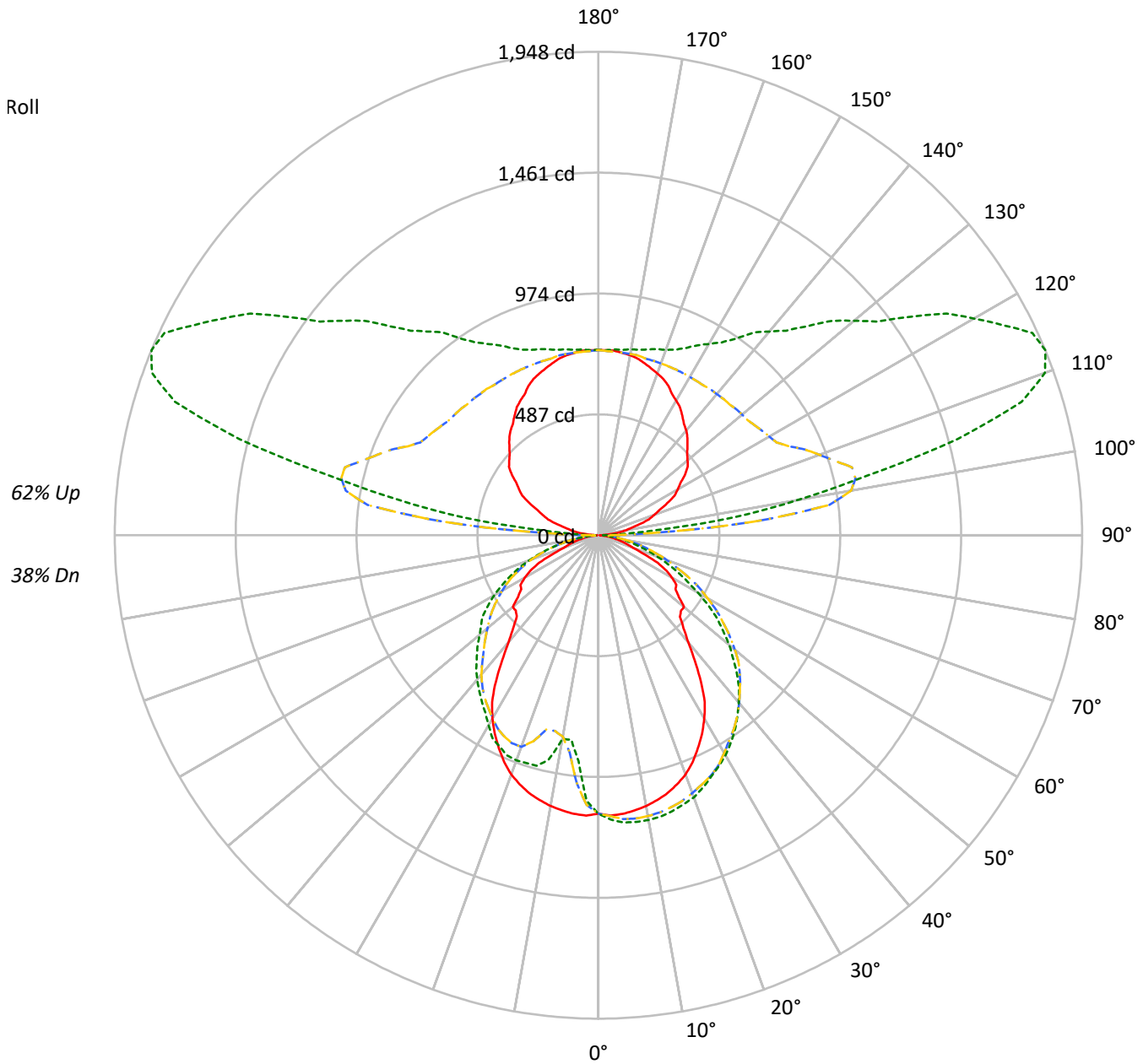
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7748.2 lumens
Efficiency: N/A
Efficacy: 107.0 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): 72.4
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: P936050
CATALOG NUMBER: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.3
10°-20°	287.4	3.7
20°-30°	444.3	5.7
30°-40°	530.4	6.8
40°-50°	533.5	6.9
50°-60°	464.2	6.0
60°-70°	329.1	4.2
70°-80°	174.1	2.2
80°-90°	46.2	0.6
90°-100°	363.8	4.7
100°-110°	956.4	12.3
110°-120°	991.6	12.8
120°-130°	795.4	10.3
130°-140°	624.1	8.1
140°-150°	479.0	6.2
150°-160°	345.0	4.5
160°-170°	211.1	2.7
170°-180°	71.3	0.9
0°-30°	832.9	10.8
0°-40°	1363.3	17.6
0°-60°	2361.0	30.5
0°-90°	2910.5	37.6
90°-120°	2311.7	29.8
90°-150°	4210.3	54.3
90°-180°	4838.0	62.4
0°-180°	7748.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1121	1121	1121	1121	1121	
5°	1127	1162	1127	914	1127	107
15°	1076	1151	1076	961	1076	303
25°	948	1074	948	940	948	435
35°	720	958	720	818	720	446
45°	465	789	465	693	465	372
55°	379	582	379	569	379	348
65°	263	351	263	393	263	251
75°	100	166	100	200	100	105
85°	17	42	17	36	17	23
90°	5	19	5	19	5	5
95°	48	220	48	220	48	53
105°	172	1498	172	1498	172	183
115°	306	1928	306	1928	306	302
125°	426	1536	426	1536	426	378
135°	507	1192	507	1192	507	393
145°	588	967	588	967	588	369
155°	665	832	665	832	665	306
165°	718	775	718	775	718	203
175°	746	751	746	751	746	71
180°	746	746	746	746	746	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1130.9	1130.9	1137.4	1139.5	1139.5	1136.2	1133.1	1136.2	1145.8	1149.0	1148.0
5°	1126.8	1135.2	1146.9	1149.0	1151.1	1150.1	1148.0	1150.1	1160.7	1162.8	1163.9
7.5°	1118.3	1134.2	1149.0	1152.2	1155.4	1152.2	1151.1	1153.3	1163.9	1166.0	1166.0
10°	1107.7	1129.9	1146.9	1149.0	1152.2	1149.0	1149.0	1153.3	1163.9	1166.0	1167.1
12.5°	1092.8	1123.6	1139.5	1141.6	1145.8	1144.8	1143.7	1148.0	1158.6	1160.7	1160.7
15°	1075.8	1111.9	1126.8	1128.9	1136.2	1134.2	1134.2	1138.4	1150.1	1153.3	1152.2
17.5°	1052.5	1097.1	1114.0	1117.2	1122.5	1121.4	1122.5	1126.8	1137.4	1139.5	1140.5
20°	1025.9	1076.9	1097.1	1100.2	1105.5	1105.5	1105.5	1110.8	1121.4	1125.6	1125.6
22.5°	989.9	1055.6	1076.9	1079.0	1085.3	1085.3	1087.5	1094.9	1104.4	1105.5	1105.5
25°	947.5	1032.3	1050.3	1056.7	1063.1	1066.2	1069.4	1073.7	1076.9	1075.8	1076.9
27.5°	902.9	1002.6	1025.9	1030.2	1038.7	1041.9	1046.1	1047.2	1048.2	1051.4	1049.3
30°	853.0	961.2	996.2	1000.5	1014.3	1016.4	1012.2	1014.3	1019.6	1021.7	1023.8
32.5°	796.7	899.7	965.4	975.0	987.8	981.3	980.3	983.5	992.0	992.0	994.1
35°	720.4	852.0	936.9	945.3	954.8	947.5	951.6	952.8	958.1	961.2	960.1
37.5°	636.5	810.5	907.1	913.5	920.9	911.3	917.7	920.9	925.1	923.0	923.0
40°	562.3	745.8	872.1	876.3	882.7	875.3	881.6	883.8	885.9	883.8	882.7
42.5°	507.2	674.8	835.0	840.3	836.0	841.3	843.5	847.7	844.5	840.3	840.3
45°	464.7	655.6	794.6	801.0	794.6	803.2	806.3	806.3	796.7	794.6	793.6
47.5°	450.9	617.5	754.3	754.3	751.1	761.7	767.1	759.6	750.1	747.0	747.0
50°	449.8	575.0	699.2	694.9	709.8	722.5	717.2	709.8	702.4	690.7	690.7
52.5°	408.5	523.1	628.1	644.0	667.4	674.8	666.2	658.9	646.1	640.8	636.5
55°	378.8	469.0	563.4	595.2	619.6	629.2	613.3	605.8	586.7	583.5	581.4
57.5°	372.4	390.4	504.0	544.3	574.0	572.9	563.4	549.6	533.7	530.5	529.4
60°	341.6	282.2	440.3	488.1	518.8	515.6	507.2	494.4	479.6	477.5	475.3
62.5°	309.8	204.8	368.2	422.3	465.7	464.7	457.3	438.2	427.6	422.3	418.0
65°	263.1	171.8	262.0	351.2	413.8	415.9	400.0	386.2	374.5	368.2	367.1
67.5°	200.5	140.0	177.1	292.9	363.9	361.8	341.6	335.3	320.4	317.2	310.8
70°	148.6	93.4	123.1	237.7	315.1	309.8	293.9	286.4	272.7	265.2	261.0
72.5°	123.1	75.3	90.2	184.6	265.2	258.9	245.1	236.6	224.9	218.6	214.3
75°	99.7	79.6	69.0	136.8	215.4	211.1	198.4	189.9	180.4	171.8	173.0
77.5°	73.2	74.3	55.2	100.8	170.8	164.5	157.0	146.4	142.1	133.7	133.7
80°	55.2	58.4	41.4	69.0	123.1	123.1	116.7	109.3	101.8	97.6	97.6
82.5°	37.1	37.1	30.8	43.5	83.8	80.6	76.4	74.3	70.0	67.9	67.9
85°	16.9	21.2	19.1	26.5	45.6	47.8	47.8	45.6	44.6	42.4	43.5
87.5°	5.3	9.6	11.6	14.9	23.4	24.4	25.5	25.5	25.5	26.5	26.5
90°	5.0	9.0	13.0	14.1	22.1	32.8	38.1	33.8	25.4	19.0	19.0
92.5°	20.0	54.0	88.2	96.7	135.9	188.1	214.3	187.8	134.9	95.2	91.4
95°	48.1	110.4	172.7	188.3	334.4	529.2	626.6	559.1	424.2	323.0	311.6
97.5°	83.1	138.1	193.1	206.9	450.4	775.2	937.6	894.9	809.7	745.7	723.9
100°	110.2	160.0	209.9	222.4	492.6	853.0	1033.2	1036.4	1042.6	1047.3	1021.3
102.5°	133.2	179.8	226.3	237.9	512.1	877.5	1060.3	1114.6	1223.2	1304.7	1282.5
105°	172.3	211.8	251.1	261.0	526.4	880.2	1057.2	1179.0	1422.5	1605.2	1593.2
107.5°	212.4	249.1	285.9	295.0	529.1	841.1	997.2	1167.0	1506.7	1761.5	1764.4
110°	239.4	272.5	305.8	314.1	525.1	806.4	947.1	1137.0	1516.7	1801.5	1814.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.0	297.6	329.2	337.1	525.2	776.1	901.5	1095.9	1484.5	1776.0	1795.1
115°	306.0	335.2	364.3	371.6	530.1	741.3	846.9	1034.1	1408.5	1689.4	1715.9
117.5°	345.6	372.1	398.6	405.2	539.9	719.6	809.3	978.3	1316.2	1569.6	1599.1
120°	368.6	393.6	418.4	424.7	547.9	712.2	794.3	948.7	1257.4	1489.0	1517.6
122.5°	391.1	416.3	441.5	447.8	559.5	708.4	782.8	921.8	1199.8	1408.4	1436.6
125°	425.8	448.6	471.6	477.3	574.9	705.2	770.3	888.4	1124.5	1301.7	1327.7
127.5°	453.8	476.9	500.0	505.8	590.4	703.3	759.8	861.2	1064.0	1216.1	1238.0
130°	468.8	493.7	518.6	524.8	601.8	704.5	755.8	846.0	1026.6	1161.9	1182.2
132.5°	484.3	509.3	534.2	540.4	611.0	705.2	752.3	833.0	994.7	1115.8	1134.0
135°	507.3	530.1	552.7	558.4	621.0	704.5	746.2	813.9	949.2	1050.7	1066.4
137.5°	530.9	553.3	575.8	581.5	636.1	708.9	745.3	802.4	916.9	1002.7	1015.5
140°	550.5	571.2	591.9	597.0	645.3	709.6	741.7	791.1	890.0	964.1	976.0
142.5°	565.5	584.6	603.7	608.5	652.9	712.1	741.7	785.2	872.0	937.1	947.4
145°	588.5	605.2	621.8	626.0	663.0	712.2	736.8	772.2	843.2	896.5	904.3
147.5°	611.5	627.8	644.0	648.1	677.7	717.1	736.8	764.7	820.5	862.4	868.8
150°	626.6	641.3	655.9	659.6	685.3	719.6	736.8	760.4	807.5	842.9	848.1
152.5°	642.1	653.2	664.3	667.1	690.3	721.3	736.8	756.9	797.2	827.4	831.3
155°	665.1	673.4	681.6	683.7	701.3	724.9	736.8	752.8	784.9	808.9	811.5
157.5°	682.1	690.2	698.1	700.1	712.3	728.6	736.8	749.2	774.1	792.8	794.6
160°	693.6	699.9	706.2	707.7	717.4	730.3	736.8	747.4	768.8	784.8	785.8
162.5°	705.2	709.9	714.5	715.7	722.7	732.1	736.8	745.7	763.8	777.3	778.3
165°	717.7	721.9	726.2	727.2	730.4	734.7	736.8	743.2	756.1	765.7	766.8
167.5°	729.2	731.2	733.2	733.7	736.4	740.0	741.7	746.0	754.4	760.8	761.2
170°	736.8	738.8	740.8	741.2	741.4	741.7	741.7	746.0	754.4	760.8	760.8
172.5°	740.8	741.2	741.7	741.7	741.7	741.7	741.7	745.1	751.8	756.7	756.3
175°	746.2	746.2	746.2	746.2	744.7	742.7	741.7	743.8	748.1	751.3	751.3
177.5°	746.2	746.2	746.2	746.2	745.1	743.6	742.8	744.5	747.8	750.2	749.8
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1150.1	1146.9	1150.1	1148.0	1149.0	1145.8	1136.2	1133.1	1136.2	1139.5	1139.5
5°	1163.9	1161.8	1163.9	1163.9	1162.8	1160.7	1150.1	1148.0	1150.1	1151.1	1149.0
7.5°	1168.1	1164.9	1168.1	1166.0	1166.0	1163.9	1153.3	1151.1	1152.2	1155.4	1152.2
10°	1168.1	1164.9	1168.1	1167.1	1166.0	1163.9	1153.3	1149.0	1149.0	1152.2	1149.0
12.5°	1162.8	1160.7	1162.8	1160.7	1160.7	1158.6	1148.0	1143.7	1144.8	1145.8	1141.6
15°	1154.3	1151.1	1154.3	1152.2	1153.3	1150.1	1138.4	1134.2	1134.2	1136.2	1128.9
17.5°	1141.6	1137.4	1141.6	1140.5	1139.5	1137.4	1126.8	1122.5	1121.4	1122.5	1117.2
20°	1126.8	1123.6	1126.8	1125.6	1125.6	1121.4	1110.8	1105.5	1105.5	1105.5	1100.2
22.5°	1103.4	1100.2	1103.4	1105.5	1105.5	1104.4	1094.9	1087.5	1085.3	1085.3	1079.0
25°	1076.9	1073.7	1076.9	1076.9	1075.8	1076.9	1073.7	1069.4	1066.2	1063.1	1056.7
27.5°	1051.4	1049.3	1051.4	1049.3	1051.4	1048.2	1047.2	1046.1	1041.9	1038.7	1030.2
30°	1025.9	1023.8	1025.9	1023.8	1021.7	1019.6	1014.3	1012.2	1016.4	1014.3	1000.5
32.5°	994.1	992.0	994.1	994.1	992.0	992.0	983.5	980.3	981.3	987.8	975.0
35°	961.2	958.1	961.2	960.1	961.2	958.1	952.8	951.6	947.5	954.8	945.3
37.5°	923.0	919.8	923.0	923.0	923.0	925.1	920.9	917.7	911.3	920.9	913.5
40°	883.8	879.5	883.8	882.7	883.8	885.9	883.8	881.6	875.3	882.7	876.3
42.5°	839.2	838.2	839.2	840.3	840.3	844.5	847.7	843.5	841.3	836.0	840.3
45°	791.4	789.3	791.4	793.6	794.6	796.7	806.3	806.3	803.2	794.6	801.0
47.5°	740.5	735.2	740.5	747.0	747.0	750.1	759.6	767.1	761.7	751.1	754.3
50°	686.4	687.5	686.4	690.7	690.7	702.4	709.8	717.2	722.5	709.8	694.9
52.5°	633.4	632.4	633.4	636.5	640.8	646.1	658.9	666.2	674.8	667.4	644.0
55°	580.3	582.5	580.3	581.4	583.5	586.7	605.8	613.3	629.2	619.6	595.2
57.5°	527.3	524.1	527.3	529.4	530.5	533.7	549.6	563.4	572.9	574.0	544.3
60°	465.7	461.5	465.7	475.3	477.5	479.6	494.4	507.2	515.6	518.8	488.1
62.5°	411.6	404.2	411.6	418.0	422.3	427.6	438.2	457.3	464.7	465.7	422.3
65°	354.4	351.2	354.4	367.1	368.2	374.5	386.2	400.0	415.9	413.8	351.2
67.5°	302.4	302.4	302.4	310.8	317.2	320.4	335.3	341.6	361.8	363.9	292.9
70°	254.6	253.6	254.6	261.0	265.2	272.7	286.4	293.9	309.8	315.1	237.7
72.5°	209.0	208.0	209.0	214.3	218.6	224.9	236.6	245.1	258.9	265.2	184.6
75°	168.7	166.5	168.7	173.0	171.8	180.4	189.9	198.4	211.1	215.4	136.8
77.5°	129.4	129.4	129.4	133.7	133.7	142.1	146.4	157.0	164.5	170.8	100.8
80°	96.5	95.5	96.5	97.6	97.6	101.8	109.3	116.7	123.1	123.1	69.0
82.5°	67.9	65.8	67.9	67.9	67.9	70.0	74.3	76.4	80.6	83.8	43.5
85°	42.4	42.4	42.4	43.5	42.4	44.6	45.6	47.8	47.8	45.6	26.5
87.5°	27.6	26.5	27.6	26.5	26.5	25.5	25.5	25.5	24.4	23.4	14.9
90°	19.0	19.0	19.0	19.0	19.0	25.4	33.8	38.1	32.8	22.1	14.1
92.5°	76.2	61.1	76.2	91.4	95.2	134.9	187.8	214.3	188.1	135.9	96.7
95°	265.7	219.9	265.7	311.6	323.0	424.2	559.1	626.6	529.2	334.4	188.3
97.5°	636.7	549.4	636.7	723.9	745.7	809.7	894.9	937.6	775.2	450.4	206.9
100°	917.3	813.4	917.3	1021.3	1047.3	1042.6	1036.4	1033.2	853.0	492.6	222.4
102.5°	1193.4	1104.4	1193.4	1282.5	1304.7	1223.2	1114.6	1060.3	877.5	512.1	237.9
105°	1545.4	1497.5	1545.4	1593.2	1605.2	1422.5	1179.0	1057.2	880.2	526.4	261.0
107.5°	1775.9	1787.5	1775.9	1764.4	1761.5	1506.7	1167.0	997.2	841.1	529.1	295.0
110°	1863.8	1913.7	1863.8	1814.0	1801.5	1516.7	1137.0	947.1	806.4	525.1	314.1



TEST NUMBER: P936050

CATALOG NUMBER: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1871.7	1948.2	1871.7	1795.1	1776.0	1484.5	1095.9	901.5	776.1	525.2	337.1
115°	1822.1	1928.2	1822.1	1715.9	1689.4	1408.5	1034.1	846.9	741.3	530.1	371.6
117.5°	1716.8	1834.5	1716.8	1599.1	1569.6	1316.2	978.3	809.3	719.6	539.9	405.2
120°	1632.0	1746.4	1632.0	1517.6	1489.0	1257.4	948.7	794.3	712.2	547.9	424.7
122.5°	1549.5	1662.3	1549.5	1436.6	1408.4	1199.8	921.8	782.8	708.4	559.5	447.8
125°	1431.6	1535.6	1431.6	1327.7	1301.7	1124.5	888.4	770.3	705.2	574.9	477.3
127.5°	1325.7	1413.4	1325.7	1238.0	1216.1	1064.0	861.2	759.8	703.3	590.4	505.8
130°	1263.2	1344.2	1263.2	1182.2	1161.9	1026.6	846.0	755.8	704.5	601.8	524.8
132.5°	1206.5	1279.1	1206.5	1134.0	1115.8	994.7	833.0	752.3	705.2	611.0	540.4
135°	1128.9	1191.5	1128.9	1066.4	1050.7	949.2	813.9	746.2	704.5	621.0	558.4
137.5°	1066.7	1117.9	1066.7	1015.5	1002.7	916.9	802.4	745.3	708.9	636.1	581.5
140°	1023.9	1071.8	1023.9	976.0	964.1	890.0	791.1	741.7	709.6	645.3	597.0
142.5°	988.6	1029.7	988.6	947.4	937.1	872.0	785.2	741.7	712.1	652.9	608.5
145°	935.5	966.7	935.5	904.3	896.5	843.2	772.2	736.8	712.2	663.0	626.0
147.5°	894.7	920.6	894.7	868.8	862.4	820.5	764.7	736.8	717.1	677.7	648.1
150°	869.1	890.0	869.1	848.1	842.9	807.5	760.4	736.8	719.6	685.3	659.6
152.5°	847.2	862.9	847.2	831.3	827.4	797.2	756.9	736.8	721.3	690.3	667.1
155°	822.0	832.4	822.0	811.5	808.9	784.9	752.8	736.8	724.9	701.3	683.7
157.5°	802.0	809.3	802.0	794.6	792.8	774.1	749.2	736.8	728.6	712.3	700.1
160°	790.1	794.3	790.1	785.8	784.8	768.8	747.4	736.8	730.3	717.4	707.7
162.5°	782.3	786.3	782.3	778.3	777.3	763.8	745.7	736.8	732.1	722.7	715.7
165°	771.0	775.3	771.0	766.8	765.7	756.1	743.2	736.8	734.7	730.4	727.2
167.5°	763.0	764.8	763.0	761.2	760.8	754.4	746.0	741.7	740.0	736.4	733.7
170°	760.8	760.8	760.8	760.8	760.8	754.4	746.0	741.7	741.7	741.4	741.2
172.5°	754.8	753.3	754.8	756.3	756.7	751.8	745.1	741.7	741.7	741.7	741.7
175°	751.3	751.3	751.3	751.3	751.3	748.1	743.8	741.7	742.7	744.7	746.2
177.5°	748.0	746.2	748.0	749.8	750.2	747.8	744.5	742.8	743.6	745.1	746.2
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



TEST NUMBER: P936050
 CATALOG NUMBER: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1137.4	1130.9	1130.9	1120.3	1116.1	1113.0	1107.7	1091.8	1087.5	1083.2	1089.6
5°	1146.9	1135.2	1126.8	1107.7	1091.8	1085.3	1065.2	1027.0	1001.5	982.5	971.9
7.5°	1149.0	1134.2	1118.3	1088.5	1050.3	1033.4	971.9	901.8	882.7	865.7	855.1
10°	1146.9	1129.9	1107.7	1063.1	972.9	943.2	881.6	836.0	824.4	821.1	824.4
12.5°	1139.5	1123.6	1092.8	1018.5	892.3	872.1	836.0	809.5	807.4	812.7	841.3
15°	1126.8	1111.9	1075.8	959.1	847.7	832.9	807.4	797.9	809.5	846.6	932.6
17.5°	1114.0	1097.1	1052.5	900.7	813.8	803.2	785.1	804.2	870.0	919.8	948.5
20°	1097.1	1076.9	1025.9	858.3	789.3	779.8	771.3	857.3	907.1	925.1	941.0
22.5°	1076.9	1055.6	989.9	828.6	763.9	756.4	761.7	887.0	907.1	919.8	933.6
25°	1050.3	1032.3	947.5	805.2	743.7	735.2	755.4	883.8	895.4	898.6	926.2
27.5°	1025.9	1002.6	902.9	784.0	719.3	716.1	760.7	870.0	878.5	881.6	911.3
30°	996.2	961.2	853.0	761.7	693.9	692.8	761.7	853.0	850.9	859.4	889.1
32.5°	965.4	899.7	796.7	734.2	669.5	668.4	754.3	827.6	825.4	837.1	859.4
35°	936.9	852.0	720.4	702.4	638.7	639.8	736.3	797.9	798.9	809.5	823.3
37.5°	907.1	810.5	636.5	667.4	609.0	609.0	711.9	770.2	768.1	771.3	790.4
40°	872.1	745.8	562.3	621.7	581.4	578.2	682.2	740.5	733.1	732.1	758.6
42.5°	835.0	674.8	507.2	561.2	549.6	545.3	646.1	704.5	690.7	693.9	727.8
45°	794.6	655.6	464.7	474.3	516.7	513.5	606.8	663.1	653.6	662.1	697.1
47.5°	754.3	617.5	450.9	393.6	481.6	480.6	563.4	622.8	617.5	625.9	663.1
50°	699.2	575.0	449.8	337.4	442.5	446.6	511.4	583.5	583.5	590.9	630.2
52.5°	628.1	523.1	408.5	305.5	396.8	409.5	465.7	549.6	551.7	559.1	594.1
55°	563.4	469.0	378.8	281.1	342.7	370.3	421.2	514.6	518.8	526.2	558.1
57.5°	504.0	390.4	372.4	252.5	292.9	319.4	381.9	480.6	482.8	489.1	519.9
60°	440.3	282.2	341.6	221.7	249.3	269.5	345.9	440.3	447.8	451.9	478.5
62.5°	368.2	204.8	309.8	200.5	228.1	232.4	316.1	402.1	411.6	414.8	430.7
65°	262.0	171.8	263.1	182.5	205.8	206.9	284.3	362.9	371.3	376.6	388.3
67.5°	177.1	140.0	200.5	165.5	188.9	189.9	253.6	317.2	328.9	333.2	340.6
70°	123.1	93.4	148.6	147.5	169.8	171.8	220.7	275.8	286.4	289.6	293.9
72.5°	90.2	75.3	123.1	132.7	149.6	151.7	186.7	229.2	239.8	243.0	245.1
75°	69.0	79.6	99.7	115.6	127.3	128.4	152.8	186.7	194.2	196.3	197.3
77.5°	55.2	74.3	73.2	93.4	104.0	101.8	119.9	144.3	150.6	150.6	150.6
80°	41.4	58.4	55.2	66.8	76.4	74.3	85.9	102.9	105.0	107.1	106.1
82.5°	30.8	37.1	37.1	42.4	50.9	48.8	57.3	66.8	66.8	66.8	69.0
85°	19.1	21.2	16.9	22.2	28.7	27.6	31.8	36.1	37.1	37.1	35.0
87.5°	11.6	9.6	5.3	8.5	12.8	12.8	14.9	15.9	14.9	14.9	14.9
90°	13.0	9.0	5.0	9.0	13.0	14.1	22.1	32.8	38.1	33.8	25.4
92.5°	88.2	54.0	20.0	54.0	88.2	96.7	135.9	188.1	214.3	187.8	134.9
95°	172.7	110.4	48.1	110.4	172.7	188.3	334.4	529.2	626.6	559.1	424.2
97.5°	193.1	138.1	83.1	138.1	193.1	206.9	450.4	775.2	937.6	894.9	809.7
100°	209.9	160.0	110.2	160.0	209.9	222.4	492.6	853.0	1033.2	1036.4	1042.6
102.5°	226.3	179.8	133.2	179.8	226.3	237.9	512.1	877.5	1060.3	1114.6	1223.2
105°	251.1	211.8	172.3	211.8	251.1	261.0	526.4	880.2	1057.2	1179.0	1422.5
107.5°	285.9	249.1	212.4	249.1	285.9	295.0	529.1	841.1	997.2	1167.0	1506.7
110°	305.8	272.5	239.4	272.5	305.8	314.1	525.1	806.4	947.1	1137.0	1516.7



TEST NUMBER: P936050

CATALOG NUMBER: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	329.2	297.6	266.0	297.6	329.2	337.1	525.2	776.1	901.5	1095.9	1484.5
115°	364.3	335.2	306.0	335.2	364.3	371.6	530.1	741.3	846.9	1034.1	1408.5
117.5°	398.6	372.1	345.6	372.1	398.6	405.2	539.9	719.6	809.3	978.3	1316.2
120°	418.4	393.6	368.6	393.6	418.4	424.7	547.9	712.2	794.3	948.7	1257.4
122.5°	441.5	416.3	391.1	416.3	441.5	447.8	559.5	708.4	782.8	921.8	1199.8
125°	471.6	448.6	425.8	448.6	471.6	477.3	574.9	705.2	770.3	888.4	1124.5
127.5°	500.0	476.9	453.8	476.9	500.0	505.8	590.4	703.3	759.8	861.2	1064.0
130°	518.6	493.7	468.8	493.7	518.6	524.8	601.8	704.5	755.8	846.0	1026.6
132.5°	534.2	509.3	484.3	509.3	534.2	540.4	611.0	705.2	752.3	833.0	994.7
135°	552.7	530.1	507.3	530.1	552.7	558.4	621.0	704.5	746.2	813.9	949.2
137.5°	575.8	553.3	530.9	553.3	575.8	581.5	636.1	708.9	745.3	802.4	916.9
140°	591.9	571.2	550.5	571.2	591.9	597.0	645.3	709.6	741.7	791.1	890.0
142.5°	603.7	584.6	565.5	584.6	603.7	608.5	652.9	712.1	741.7	785.2	872.0
145°	621.8	605.2	588.5	605.2	621.8	626.0	663.0	712.2	736.8	772.2	843.2
147.5°	644.0	627.8	611.5	627.8	644.0	648.1	677.7	717.1	736.8	764.7	820.5
150°	655.9	641.3	626.6	641.3	655.9	659.6	685.3	719.6	736.8	760.4	807.5
152.5°	664.3	653.2	642.1	653.2	664.3	667.1	690.3	721.3	736.8	756.9	797.2
155°	681.6	673.4	665.1	673.4	681.6	683.7	701.3	724.9	736.8	752.8	784.9
157.5°	698.1	690.2	682.1	690.2	698.1	700.1	712.3	728.6	736.8	749.2	774.1
160°	706.2	699.9	693.6	699.9	706.2	707.7	717.4	730.3	736.8	747.4	768.8
162.5°	714.5	709.9	705.2	709.9	714.5	715.7	722.7	732.1	736.8	745.7	763.8
165°	726.2	721.9	717.7	721.9	726.2	727.2	730.4	734.7	736.8	743.2	756.1
167.5°	733.2	731.2	729.2	731.2	733.2	733.7	736.4	740.0	741.7	746.0	754.4
170°	740.8	738.8	736.8	738.8	740.8	741.2	741.4	741.7	741.7	746.0	754.4
172.5°	741.7	741.2	740.8	741.2	741.7	741.7	741.7	741.7	741.7	745.1	751.8
175°	746.2	746.2	746.2	746.2	746.2	746.2	744.7	742.7	741.7	743.8	748.1
177.5°	746.2	746.2	746.2	746.2	746.2	746.2	745.1	743.6	742.8	744.5	747.8
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



TEST NUMBER: P936050
 CATALOG NUMBER: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1082.2	1079.0	1083.2	1071.5	1083.2	1079.0	1082.2	1089.6	1083.2	1087.5	1091.8
5°	949.5	944.2	927.3	913.5	927.3	944.2	949.5	971.9	982.5	1001.5	1027.0
7.5°	848.8	844.5	840.3	831.7	840.3	844.5	848.8	855.1	865.7	882.7	901.8
10°	826.4	827.6	833.9	832.9	833.9	827.6	826.4	824.4	821.1	824.4	836.0
12.5°	883.8	893.3	928.3	926.2	928.3	893.3	883.8	841.3	812.7	807.4	809.5
15°	949.5	952.8	960.1	961.2	960.1	952.8	949.5	932.6	846.6	809.5	797.9
17.5°	955.9	957.0	962.3	962.3	962.3	957.0	955.9	948.5	919.8	870.0	804.2
20°	950.6	952.8	963.4	965.4	963.4	952.8	950.6	941.0	925.1	907.1	857.3
22.5°	948.5	952.8	961.2	960.1	961.2	952.8	948.5	933.6	919.8	907.1	887.0
25°	937.9	937.9	938.9	940.0	938.9	937.9	937.9	926.2	898.6	895.4	883.8
27.5°	915.6	917.7	924.1	923.0	924.1	917.7	915.6	911.3	881.6	878.5	870.0
30°	895.4	893.3	888.0	883.8	888.0	893.3	895.4	889.1	859.4	850.9	853.0
32.5°	861.5	856.2	850.9	847.7	850.9	856.2	861.5	859.4	837.1	825.4	827.6
35°	821.1	822.3	821.1	818.0	821.1	822.3	821.1	823.3	809.5	798.9	797.9
37.5°	792.6	794.6	793.6	789.3	793.6	794.6	792.6	790.4	771.3	768.1	770.2
40°	762.8	763.9	762.8	759.6	762.8	763.9	762.8	758.6	732.1	733.1	740.5
42.5°	734.2	733.1	729.9	727.8	729.9	733.1	734.2	727.8	693.9	690.7	704.5
45°	701.3	702.4	696.0	692.8	696.0	702.4	701.3	697.1	662.1	653.6	663.1
47.5°	668.4	668.4	663.1	659.9	663.1	668.4	668.4	663.1	625.9	617.5	622.8
50°	633.4	632.4	624.9	623.9	624.9	632.4	633.4	630.2	590.9	583.5	583.5
52.5°	593.1	593.1	594.1	596.2	594.1	593.1	593.1	594.1	559.1	551.7	549.6
55°	558.1	559.1	566.5	568.7	566.5	559.1	558.1	558.1	526.2	518.8	514.6
57.5°	522.0	522.0	527.3	527.3	527.3	522.0	522.0	519.9	489.1	482.8	480.6
60°	480.6	482.8	486.9	485.9	486.9	482.8	480.6	478.5	451.9	447.8	440.3
62.5°	437.1	439.2	440.3	438.2	440.3	439.2	437.1	430.7	414.8	411.6	402.1
65°	391.5	393.6	394.7	392.6	394.7	393.6	391.5	388.3	376.6	371.3	362.9
67.5°	344.8	343.8	342.7	346.9	342.7	343.8	344.8	340.6	333.2	328.9	317.2
70°	297.0	297.0	296.0	298.2	296.0	297.0	297.0	293.9	289.6	286.4	275.8
72.5°	246.1	245.1	249.3	246.1	249.3	245.1	246.1	245.1	243.0	239.8	229.2
75°	196.3	198.4	196.3	199.5	196.3	198.4	196.3	197.3	196.3	194.2	186.7
77.5°	149.6	151.7	149.6	149.6	149.6	151.7	149.6	150.6	150.6	150.6	144.3
80°	106.1	105.0	105.0	104.0	105.0	105.0	106.1	106.1	107.1	105.0	102.9
82.5°	67.9	66.8	66.8	69.0	66.8	66.8	67.9	69.0	66.8	66.8	66.8
85°	37.1	38.2	36.1	36.1	36.1	38.2	37.1	35.0	37.1	37.1	36.1
87.5°	13.8	12.8	12.8	12.8	12.8	12.8	13.8	14.9	14.9	14.9	15.9
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.4	33.8	38.1	32.8
92.5°	95.2	91.4	76.2	61.1	76.2	91.4	95.2	134.9	187.8	214.3	188.1
95°	323.0	311.6	265.7	219.9	265.7	311.6	323.0	424.2	559.1	626.6	529.2
97.5°	745.7	723.9	636.7	549.4	636.7	723.9	745.7	809.7	894.9	937.6	775.2
100°	1047.3	1021.3	917.3	813.4	917.3	1021.3	1047.3	1042.6	1036.4	1033.2	853.0
102.5°	1304.7	1282.5	1193.4	1104.4	1193.4	1282.5	1304.7	1223.2	1114.6	1060.3	877.5
105°	1605.2	1593.2	1545.4	1497.5	1545.4	1593.2	1605.2	1422.5	1179.0	1057.2	880.2
107.5°	1761.5	1764.4	1775.9	1787.5	1775.9	1764.4	1761.5	1506.7	1167.0	997.2	841.1
110°	1801.5	1814.0	1863.8	1913.7	1863.8	1814.0	1801.5	1516.7	1137.0	947.1	806.4



TEST NUMBER: P936050

CATALOG NUMBER: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1776.0	1795.1	1871.7	1948.2	1871.7	1795.1	1776.0	1484.5	1095.9	901.5	776.1
115°	1689.4	1715.9	1822.1	1928.2	1822.1	1715.9	1689.4	1408.5	1034.1	846.9	741.3
117.5°	1569.6	1599.1	1716.8	1834.5	1716.8	1599.1	1569.6	1316.2	978.3	809.3	719.6
120°	1489.0	1517.6	1632.0	1746.4	1632.0	1517.6	1489.0	1257.4	948.7	794.3	712.2
122.5°	1408.4	1436.6	1549.5	1662.3	1549.5	1436.6	1408.4	1199.8	921.8	782.8	708.4
125°	1301.7	1327.7	1431.6	1535.6	1431.6	1327.7	1301.7	1124.5	888.4	770.3	705.2
127.5°	1216.1	1238.0	1325.7	1413.4	1325.7	1238.0	1216.1	1064.0	861.2	759.8	703.3
130°	1161.9	1182.2	1263.2	1344.2	1263.2	1182.2	1161.9	1026.6	846.0	755.8	704.5
132.5°	1115.8	1134.0	1206.5	1279.1	1206.5	1134.0	1115.8	994.7	833.0	752.3	705.2
135°	1050.7	1066.4	1128.9	1191.5	1128.9	1066.4	1050.7	949.2	813.9	746.2	704.5
137.5°	1002.7	1015.5	1066.7	1117.9	1066.7	1015.5	1002.7	916.9	802.4	745.3	708.9
140°	964.1	976.0	1023.9	1071.8	1023.9	976.0	964.1	890.0	791.1	741.7	709.6
142.5°	937.1	947.4	988.6	1029.7	988.6	947.4	937.1	872.0	785.2	741.7	712.1
145°	896.5	904.3	935.5	966.7	935.5	904.3	896.5	843.2	772.2	736.8	712.2
147.5°	862.4	868.8	894.7	920.6	894.7	868.8	862.4	820.5	764.7	736.8	717.1
150°	842.9	848.1	869.1	890.0	869.1	848.1	842.9	807.5	760.4	736.8	719.6
152.5°	827.4	831.3	847.2	862.9	847.2	831.3	827.4	797.2	756.9	736.8	721.3
155°	808.9	811.5	822.0	832.4	822.0	811.5	808.9	784.9	752.8	736.8	724.9
157.5°	792.8	794.6	802.0	809.3	802.0	794.6	792.8	774.1	749.2	736.8	728.6
160°	784.8	785.8	790.1	794.3	790.1	785.8	784.8	768.8	747.4	736.8	730.3
162.5°	777.3	778.3	782.3	786.3	782.3	778.3	777.3	763.8	745.7	736.8	732.1
165°	765.7	766.8	771.0	775.3	771.0	766.8	765.7	756.1	743.2	736.8	734.7
167.5°	760.8	761.2	763.0	764.8	763.0	761.2	760.8	754.4	746.0	741.7	740.0
170°	760.8	760.8	760.8	760.8	760.8	760.8	760.8	754.4	746.0	741.7	741.7
172.5°	756.7	756.3	754.8	753.3	754.8	756.3	756.7	751.8	745.1	741.7	741.7
175°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	748.1	743.8	741.7	742.7
177.5°	750.2	749.8	748.0	746.2	748.0	749.8	750.2	747.8	744.5	742.8	743.6
180°	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2	746.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1107.7	1113.0	1116.1	1120.3	1130.9
5°	1065.2	1085.3	1091.8	1107.7	1126.8
7.5°	971.9	1033.4	1050.3	1088.5	1118.3
10°	881.6	943.2	972.9	1063.1	1107.7
12.5°	836.0	872.1	892.3	1018.5	1092.8
15°	807.4	832.9	847.7	959.1	1075.8
17.5°	785.1	803.2	813.8	900.7	1052.5
20°	771.3	779.8	789.3	858.3	1025.9
22.5°	761.7	756.4	763.9	828.6	989.9
25°	755.4	735.2	743.7	805.2	947.5
27.5°	760.7	716.1	719.3	784.0	902.9
30°	761.7	692.8	693.9	761.7	853.0
32.5°	754.3	668.4	669.5	734.2	796.7
35°	736.3	639.8	638.7	702.4	720.4
37.5°	711.9	609.0	609.0	667.4	636.5
40°	682.2	578.2	581.4	621.7	562.3
42.5°	646.1	545.3	549.6	561.2	507.2
45°	606.8	513.5	516.7	474.3	464.7
47.5°	563.4	480.6	481.6	393.6	450.9
50°	511.4	446.6	442.5	337.4	449.8
52.5°	465.7	409.5	396.8	305.5	408.5
55°	421.2	370.3	342.7	281.1	378.8
57.5°	381.9	319.4	292.9	252.5	372.4
60°	345.9	269.5	249.3	221.7	341.6
62.5°	316.1	232.4	228.1	200.5	309.8
65°	284.3	206.9	205.8	182.5	263.1
67.5°	253.6	189.9	188.9	165.5	200.5
70°	220.7	171.8	169.8	147.5	148.6
72.5°	186.7	151.7	149.6	132.7	123.1
75°	152.8	128.4	127.3	115.6	99.7
77.5°	119.9	101.8	104.0	93.4	73.2
80°	85.9	74.3	76.4	66.8	55.2
82.5°	57.3	48.8	50.9	42.4	37.1
85°	31.8	27.6	28.7	22.2	16.9
87.5°	14.9	12.8	12.8	8.5	5.3
90°	22.1	14.1	13.0	9.0	5.0
92.5°	135.9	96.7	88.2	54.0	20.0
95°	334.4	188.3	172.7	110.4	48.1
97.5°	450.4	206.9	193.1	138.1	83.1
100°	492.6	222.4	209.9	160.0	110.2
102.5°	512.1	237.9	226.3	179.8	133.2
105°	526.4	261.0	251.1	211.8	172.3
107.5°	529.1	295.0	285.9	249.1	212.4
110°	525.1	314.1	305.8	272.5	239.4



TEST NUMBER: P936050

CATALOG NUMBER: SQ4-FA-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	525.2	337.1	329.2	297.6	266.0
115°	530.1	371.6	364.3	335.2	306.0
117.5°	539.9	405.2	398.6	372.1	345.6
120°	547.9	424.7	418.4	393.6	368.6
122.5°	559.5	447.8	441.5	416.3	391.1
125°	574.9	477.3	471.6	448.6	425.8
127.5°	590.4	505.8	500.0	476.9	453.8
130°	601.8	524.8	518.6	493.7	468.8
132.5°	611.0	540.4	534.2	509.3	484.3
135°	621.0	558.4	552.7	530.1	507.3
137.5°	636.1	581.5	575.8	553.3	530.9
140°	645.3	597.0	591.9	571.2	550.5
142.5°	652.9	608.5	603.7	584.6	565.5
145°	663.0	626.0	621.8	605.2	588.5
147.5°	677.7	648.1	644.0	627.8	611.5
150°	685.3	659.6	655.9	641.3	626.6
152.5°	690.3	667.1	664.3	653.2	642.1
155°	701.3	683.7	681.6	673.4	665.1
157.5°	712.3	700.1	698.1	690.2	682.1
160°	717.4	707.7	706.2	699.9	693.6
162.5°	722.7	715.7	714.5	709.9	705.2
165°	730.4	727.2	726.2	721.9	717.7
167.5°	736.4	733.7	733.2	731.2	729.2
170°	741.4	741.2	740.8	738.8	736.8
172.5°	741.7	741.7	741.7	741.2	740.8
175°	744.7	746.2	746.2	746.2	746.2
177.5°	745.1	746.2	746.2	746.2	746.2
180°	746.2	746.2	746.2	746.2	746.2



TEST NUMBER: P936050
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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	11.66	12.42	12.72	13.48	14.92	14.46	15.22	15.51	16.28	17.72
	3H	12.13	12.81	13.20	13.88	15.34	15.78	16.46	16.85	17.53	18.99
	4H	12.32	12.96	13.39	14.03	15.50	16.22	16.86	17.30	17.93	19.40
	6H	12.43	13.02	13.52	14.10	15.57	16.49	17.08	17.58	18.16	19.63
	8H	12.43	12.99	13.52	14.08	15.55	16.56	17.12	17.65	18.21	19.68
	12H	12.40	12.93	13.49	14.02	15.51	16.59	17.12	17.68	18.21	19.70
4H	2H	12.67	13.32	13.76	14.39	15.85	14.85	15.50	15.94	16.57	18.03
	3H	13.69	14.23	14.78	15.32	16.80	16.34	16.88	17.43	17.98	19.45
	4H	13.96	14.45	15.06	15.54	17.04	16.86	17.35	17.96	18.44	19.94
	6H	14.08	14.50	15.19	15.62	17.11	17.21	17.63	18.31	18.74	20.23
	8H	14.08	14.48	15.19	15.58	17.09	17.31	17.70	18.41	18.81	20.31
	12H	14.05	14.40	15.17	15.52	17.03	17.36	17.71	18.48	18.83	20.34
8H	4H	14.40	14.80	15.51	15.90	17.41	16.98	17.37	18.08	18.47	19.98
	6H	14.66	14.98	15.79	16.13	17.63	17.40	17.73	18.53	18.87	20.37
	8H	14.70	14.99	15.83	16.11	17.64	17.55	17.83	18.68	18.96	20.48
	12H	14.68	14.93	15.82	16.05	17.61	17.63	17.88	18.77	19.01	20.57
12H	4H	14.40	14.76	15.52	15.88	17.39	16.94	17.29	18.06	18.41	19.92
	6H	14.72	15.00	15.85	16.13	17.65	17.40	17.68	18.53	18.81	20.33
	8H	14.78	15.03	15.92	16.15	17.71	17.55	17.80	18.68	18.92	20.48