

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: P934050

Luminaire Tested: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934050
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

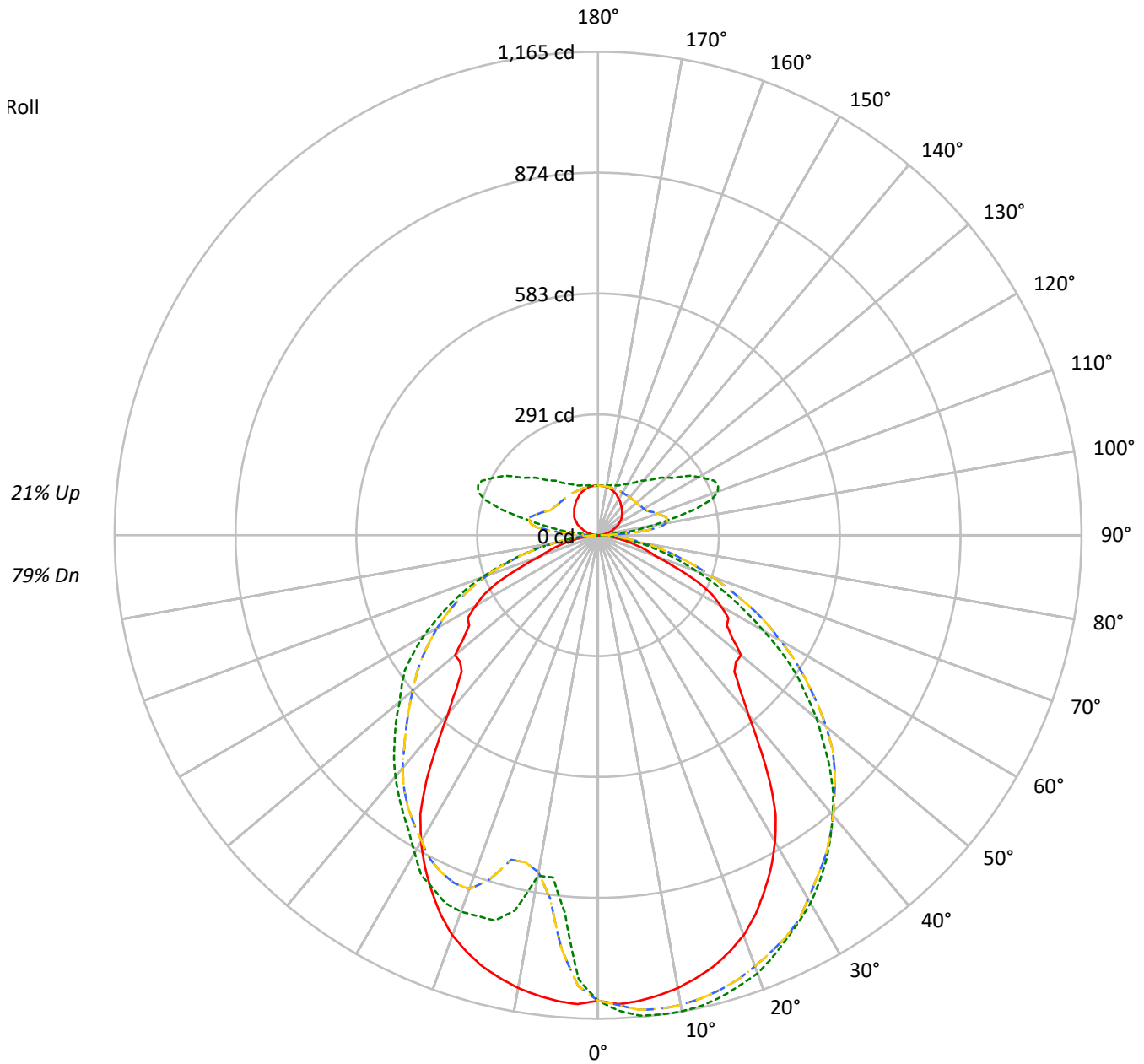
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684.9 lumens
Efficiency: N/A
Efficacy: 95.0 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-Direct

Input Watts (W): 38.8
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: P934050
CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4

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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79				
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67				
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56				
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47				
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41				
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35				
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31				
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27				
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24				
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22				
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10406	10406	10406	10406
5°	10473	10505	10473	8260
10°	10391	10347	10391	7398
15°	10266	10123	10266	8453
20°	10039	9858	10039	8470
25°	9589	9470	9589	8291
30°	9010	9148	9010	7897
35°	8020	8742	8020	7464
40°	6671	8263	6671	7136
45°	5949	7702	5949	6760
50°	6305	7034	6305	6383
55°	5917	6314	5917	6165
60°	6076	5362	6076	5646
65°	5483	4433	5483	4956
70°	3772	3533	3772	4154
75°	3269	2610	3269	3128
80°	2583	1727	2583	1880
85°	1399	914	1399	778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9135 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	2.7
10°-20°	287.4	7.8
20°-30°	444.3	12.1
30°-40°	530.4	14.4
40°-50°	533.5	14.5
50°-60°	464.2	12.6
60°-70°	329.1	8.9
70°-80°	174.1	4.7
80°-90°	43.8	1.2
90°-100°	58.4	1.6
100°-110°	153.6	4.2
110°-120°	159.2	4.3
120°-130°	127.7	3.5
130°-140°	100.2	2.7
140°-150°	76.9	2.1
150°-160°	55.4	1.5
160°-170°	33.9	0.9
170°-180°	11.4	0.3
0°-30°	832.9	22.6
0°-40°	1363.3	37.0
0°-60°	2361.0	64.1
0°-90°	2908.1	78.9
90°-120°	371.2	10.1
90°-150°	676.1	18.3
90°-180°	777.0	21.1
0°-180°	3684.9	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°	1	3	1	3	1	1
95°	8	35	8	35	8	9
105°	28	240	28	240	28	29
115°	49	310	49	310	49	49
125°	68	247	68	247	68	61
135°	82	191	82	191	82	63
145°	94	155	94	155	94	59
155°	107	134	107	134	107	49
165°	115	124	115	124	115	33
175°	120	121	120	121	120	11
180°	120	120	120	120	120	



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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°	0.8	1.4	2.1	2.2	3.5	5.2	6.1	5.5	4.1	3.1	3.1
92.5°	3.2	8.7	14.1	15.5	21.8	30.3	34.4	30.2	21.7	15.3	14.6
95°	7.7	17.7	27.8	30.3	53.7	85.0	100.6	89.8	68.1	51.9	50.0
97.5°	13.3	22.2	31.0	33.2	72.4	124.5	150.6	143.7	130.0	119.7	116.2
100°	17.7	25.7	33.7	35.7	79.1	137.0	165.9	166.4	167.4	168.1	164.0
102.5°	21.4	28.8	36.4	38.2	82.2	140.9	170.2	179.0	196.4	209.5	205.9
105°	27.7	34.0	40.3	41.9	84.6	141.3	169.8	189.3	228.5	257.8	255.8
107.5°	34.1	40.0	45.9	47.4	85.0	135.1	160.1	187.4	241.9	282.9	283.4
110°	38.5	43.8	49.1	50.4	84.3	129.5	152.1	182.6	243.5	289.3	291.3



TEST NUMBER: P934050

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	42.7	47.8	52.8	54.1	84.3	124.6	144.8	176.0	238.4	285.2	288.3
115°	49.1	53.8	58.5	59.7	85.1	119.1	136.0	166.1	226.2	271.3	275.5
117.5°	55.5	59.7	64.0	65.0	86.7	115.6	130.0	157.1	211.3	252.1	256.8
120°	59.2	63.2	67.2	68.2	87.9	114.3	127.5	152.3	202.0	239.1	243.7
122.5°	62.8	66.8	70.8	71.9	89.8	113.7	125.7	148.0	192.6	226.1	230.6
125°	68.3	72.0	75.7	76.7	92.3	113.2	123.7	142.6	180.6	209.0	213.2
127.5°	72.8	76.6	80.3	81.3	94.8	112.9	122.0	138.3	170.9	195.3	198.8
130°	75.2	79.3	83.3	84.3	96.7	113.1	121.3	135.9	164.9	186.6	189.8
132.5°	77.8	81.8	85.8	86.8	98.1	113.2	120.8	133.8	159.7	179.2	182.1
135°	81.5	85.1	88.8	89.7	99.7	113.1	119.8	130.6	152.4	168.7	171.2
137.5°	85.3	88.9	92.5	93.4	102.1	113.8	119.6	128.8	147.2	161.0	163.1
140°	88.4	91.7	95.1	95.9	103.6	113.9	119.1	127.0	142.9	154.8	156.7
142.5°	90.8	93.9	96.9	97.7	104.9	114.3	119.1	126.1	140.0	150.5	152.2
145°	94.5	97.2	99.9	100.5	106.5	114.3	118.3	124.0	135.4	144.0	145.3
147.5°	98.2	100.8	103.4	104.1	108.8	115.2	118.3	122.8	131.8	138.5	139.6
150°	100.6	102.9	105.4	105.9	110.0	115.6	118.3	122.1	129.7	135.4	136.2
152.5°	103.1	104.9	106.6	107.1	110.8	115.8	118.3	121.5	128.0	132.9	133.5
155°	106.8	108.1	109.4	109.8	112.6	116.4	118.3	120.9	126.1	129.9	130.3
157.5°	109.5	110.8	112.1	112.4	114.3	117.0	118.3	120.3	124.3	127.3	127.6
160°	111.4	112.3	113.4	113.6	115.2	117.2	118.3	120.0	123.4	126.0	126.2
162.5°	113.2	113.9	114.7	114.9	116.0	117.6	118.3	119.7	122.6	124.8	124.9
165°	115.2	115.9	116.6	116.8	117.2	118.0	118.3	119.3	121.4	122.9	123.1
167.5°	117.1	117.4	117.7	117.8	118.2	118.8	119.1	119.7	121.1	122.1	122.2
170°	118.3	118.6	118.9	119.0	119.0	119.1	119.1	119.7	121.1	122.1	122.1
172.5°	118.9	119.0	119.1	119.1	119.1	119.1	119.1	119.6	120.7	121.5	121.4
175°	119.8	119.8	119.8	119.8	119.6	119.2	119.1	119.4	120.1	120.6	120.6
177.5°	119.8	119.8	119.8	119.8	119.6	119.4	119.2	119.5	120.0	120.4	120.4
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8



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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°	3.1	3.1	3.1	3.1	3.1	4.1	5.5	6.1	5.2	3.5	2.2
92.5°	12.2	9.8	12.2	14.6	15.3	21.7	30.2	34.4	30.3	21.8	15.5
95°	42.7	35.3	42.7	50.0	51.9	68.1	89.8	100.6	85.0	53.7	30.3
97.5°	102.2	88.2	102.2	116.2	119.7	130.0	143.7	150.6	124.5	72.4	33.2
100°	147.4	130.6	147.4	164.0	168.1	167.4	166.4	165.9	137.0	79.1	35.7
102.5°	191.6	177.3	191.6	205.9	209.5	196.4	179.0	170.2	140.9	82.2	38.2
105°	248.2	240.5	248.2	255.8	257.8	228.5	189.3	169.8	141.3	84.6	41.9
107.5°	285.2	287.1	285.2	283.4	282.9	241.9	187.4	160.1	135.1	85.0	47.4
110°	299.3	307.3	299.3	291.3	289.3	243.5	182.6	152.1	129.5	84.3	50.4



TEST NUMBER: P934050

CATALOG NUMBER: SQ4-FA-025U-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°	300.6	312.8	300.6	288.3	285.2	238.4	176.0	144.8	124.6	84.3	54.1
115°	292.6	309.6	292.6	275.5	271.3	226.2	166.1	136.0	119.1	85.1	59.7
117.5°	275.7	294.6	275.7	256.8	252.1	211.3	157.1	130.0	115.6	86.7	65.0
120°	262.1	280.4	262.1	243.7	239.1	202.0	152.3	127.5	114.3	87.9	68.2
122.5°	248.8	266.9	248.8	230.6	226.1	192.6	148.0	125.7	113.7	89.8	71.9
125°	229.9	246.6	229.9	213.2	209.0	180.6	142.6	123.7	113.2	92.3	76.7
127.5°	212.9	226.9	212.9	198.8	195.3	170.9	138.3	122.0	112.9	94.8	81.3
130°	202.8	215.8	202.8	189.8	186.6	164.9	135.9	121.3	113.1	96.7	84.3
132.5°	193.8	205.4	193.8	182.1	179.2	159.7	133.8	120.8	113.2	98.1	86.8
135°	181.3	191.4	181.3	171.2	168.7	152.4	130.6	119.8	113.1	99.7	89.7
137.5°	171.3	179.6	171.3	163.1	161.0	147.2	128.8	119.6	113.8	102.1	93.4
140°	164.4	172.1	164.4	156.7	154.8	142.9	127.0	119.1	113.9	103.6	95.9
142.5°	158.8	165.3	158.8	152.2	150.5	140.0	126.1	119.1	114.3	104.9	97.7
145°	150.2	155.2	150.2	145.3	144.0	135.4	124.0	118.3	114.3	106.5	100.5
147.5°	143.7	147.8	143.7	139.6	138.5	131.8	122.8	118.3	115.2	108.8	104.1
150°	139.6	142.9	139.6	136.2	135.4	129.7	122.1	118.3	115.6	110.0	105.9
152.5°	136.0	138.6	136.0	133.5	132.9	128.0	121.5	118.3	115.8	110.8	107.1
155°	132.0	133.7	132.0	130.3	129.9	126.1	120.9	118.3	116.4	112.6	109.8
157.5°	128.8	130.0	128.8	127.6	127.3	124.3	120.3	118.3	117.0	114.3	112.4
160°	126.9	127.5	126.9	126.2	126.0	123.4	120.0	118.3	117.2	115.2	113.6
162.5°	125.6	126.2	125.6	124.9	124.8	122.6	119.7	118.3	117.6	116.0	114.9
165°	123.8	124.5	123.8	123.1	122.9	121.4	119.3	118.3	118.0	117.2	116.8
167.5°	122.5	122.8	122.5	122.2	122.1	121.1	119.7	119.1	118.8	118.2	117.8
170°	122.1	122.1	122.1	122.1	122.1	121.1	119.7	119.1	119.1	119.0	119.0
172.5°	121.2	120.9	121.2	121.4	121.5	120.7	119.6	119.1	119.1	119.1	119.1
175°	120.6	120.6	120.6	120.6	120.6	120.1	119.4	119.1	119.2	119.6	119.8
177.5°	120.1	119.8	120.1	120.4	120.4	120.0	119.5	119.2	119.4	119.6	119.8
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8



TEST NUMBER: P934050

CATALOG NUMBER: SQ4-FA-025U-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°	2.1	1.4	0.8	1.4	2.1	2.2	3.5	5.2	6.1	5.5	4.1
92.5°	14.1	8.7	3.2	8.7	14.1	15.5	21.8	30.3	34.4	30.2	21.7
95°	27.8	17.7	7.7	17.7	27.8	30.3	53.7	85.0	100.6	89.8	68.1
97.5°	31.0	22.2	13.3	22.2	31.0	33.2	72.4	124.5	150.6	143.7	130.0
100°	33.7	25.7	17.7	25.7	33.7	35.7	79.1	137.0	165.9	166.4	167.4
102.5°	36.4	28.8	21.4	28.8	36.4	38.2	82.2	140.9	170.2	179.0	196.4
105°	40.3	34.0	27.7	34.0	40.3	41.9	84.6	141.3	169.8	189.3	228.5
107.5°	45.9	40.0	34.1	40.0	45.9	47.4	85.0	135.1	160.1	187.4	241.9
110°	49.1	43.8	38.5	43.8	49.1	50.4	84.3	129.5	152.1	182.6	243.5



TEST NUMBER: P934050

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	52.8	47.8	42.7	47.8	52.8	54.1	84.3	124.6	144.8	176.0	238.4
115°	58.5	53.8	49.1	53.8	58.5	59.7	85.1	119.1	136.0	166.1	226.2
117.5°	64.0	59.7	55.5	59.7	64.0	65.0	86.7	115.6	130.0	157.1	211.3
120°	67.2	63.2	59.2	63.2	67.2	68.2	87.9	114.3	127.5	152.3	202.0
122.5°	70.8	66.8	62.8	66.8	70.8	71.9	89.8	113.7	125.7	148.0	192.6
125°	75.7	72.0	68.3	72.0	75.7	76.7	92.3	113.2	123.7	142.6	180.6
127.5°	80.3	76.6	72.8	76.6	80.3	81.3	94.8	112.9	122.0	138.3	170.9
130°	83.3	79.3	75.2	79.3	83.3	84.3	96.7	113.1	121.3	135.9	164.9
132.5°	85.8	81.8	77.8	81.8	85.8	86.8	98.1	113.2	120.8	133.8	159.7
135°	88.8	85.1	81.5	85.1	88.8	89.7	99.7	113.1	119.8	130.6	152.4
137.5°	92.5	88.9	85.3	88.9	92.5	93.4	102.1	113.8	119.6	128.8	147.2
140°	95.1	91.7	88.4	91.7	95.1	95.9	103.6	113.9	119.1	127.0	142.9
142.5°	96.9	93.9	90.8	93.9	96.9	97.7	104.9	114.3	119.1	126.1	140.0
145°	99.9	97.2	94.5	97.2	99.9	100.5	106.5	114.3	118.3	124.0	135.4
147.5°	103.4	100.8	98.2	100.8	103.4	104.1	108.8	115.2	118.3	122.8	131.8
150°	105.4	102.9	100.6	102.9	105.4	105.9	110.0	115.6	118.3	122.1	129.7
152.5°	106.6	104.9	103.1	104.9	106.6	107.1	110.8	115.8	118.3	121.5	128.0
155°	109.4	108.1	106.8	108.1	109.4	109.8	112.6	116.4	118.3	120.9	126.1
157.5°	112.1	110.8	109.5	110.8	112.1	112.4	114.3	117.0	118.3	120.3	124.3
160°	113.4	112.3	111.4	112.3	113.4	113.6	115.2	117.2	118.3	120.0	123.4
162.5°	114.7	113.9	113.2	113.9	114.7	114.9	116.0	117.6	118.3	119.7	122.6
165°	116.6	115.9	115.2	115.9	116.6	116.8	117.2	118.0	118.3	119.3	121.4
167.5°	117.7	117.4	117.1	117.4	117.7	117.8	118.2	118.8	119.1	119.7	121.1
170°	118.9	118.6	118.3	118.6	118.9	119.0	119.0	119.1	119.1	119.7	121.1
172.5°	119.1	119.0	118.9	119.0	119.1	119.1	119.1	119.1	119.1	119.6	120.7
175°	119.8	119.8	119.8	119.8	119.8	119.8	119.6	119.2	119.1	119.4	120.1
177.5°	119.8	119.8	119.8	119.8	119.8	119.8	119.6	119.4	119.2	119.5	120.0
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8



TEST NUMBER: P934050
 CATALOG NUMBER: SQ4-FA-025U-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°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	5.5	6.1	5.2
92.5°	15.3	14.6	12.2	9.8	12.2	14.6	15.3	21.7	30.2	34.4	30.3
95°	51.9	50.0	42.7	35.3	42.7	50.0	51.9	68.1	89.8	100.6	85.0
97.5°	119.7	116.2	102.2	88.2	102.2	116.2	119.7	130.0	143.7	150.6	124.5
100°	168.1	164.0	147.4	130.6	147.4	164.0	168.1	167.4	166.4	165.9	137.0
102.5°	209.5	205.9	191.6	177.3	191.6	205.9	209.5	196.4	179.0	170.2	140.9
105°	257.8	255.8	248.2	240.5	248.2	255.8	257.8	228.5	189.3	169.8	141.3
107.5°	282.9	283.4	285.2	287.1	285.2	283.4	282.9	241.9	187.4	160.1	135.1
110°	289.3	291.3	299.3	307.3	299.3	291.3	289.3	243.5	182.6	152.1	129.5



TEST NUMBER: P934050

CATALOG NUMBER: SQ4-FA-025U-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°	285.2	288.3	300.6	312.8	300.6	288.3	285.2	238.4	176.0	144.8	124.6
115°	271.3	275.5	292.6	309.6	292.6	275.5	271.3	226.2	166.1	136.0	119.1
117.5°	252.1	256.8	275.7	294.6	275.7	256.8	252.1	211.3	157.1	130.0	115.6
120°	239.1	243.7	262.1	280.4	262.1	243.7	239.1	202.0	152.3	127.5	114.3
122.5°	226.1	230.6	248.8	266.9	248.8	230.6	226.1	192.6	148.0	125.7	113.7
125°	209.0	213.2	229.9	246.6	229.9	213.2	209.0	180.6	142.6	123.7	113.2
127.5°	195.3	198.8	212.9	226.9	212.9	198.8	195.3	170.9	138.3	122.0	112.9
130°	186.6	189.8	202.8	215.8	202.8	189.8	186.6	164.9	135.9	121.3	113.1
132.5°	179.2	182.1	193.8	205.4	193.8	182.1	179.2	159.7	133.8	120.8	113.2
135°	168.7	171.2	181.3	191.4	181.3	171.2	168.7	152.4	130.6	119.8	113.1
137.5°	161.0	163.1	171.3	179.6	171.3	163.1	161.0	147.2	128.8	119.6	113.8
140°	154.8	156.7	164.4	172.1	164.4	156.7	154.8	142.9	127.0	119.1	113.9
142.5°	150.5	152.2	158.8	165.3	158.8	152.2	150.5	140.0	126.1	119.1	114.3
145°	144.0	145.3	150.2	155.2	150.2	145.3	144.0	135.4	124.0	118.3	114.3
147.5°	138.5	139.6	143.7	147.8	143.7	139.6	138.5	131.8	122.8	118.3	115.2
150°	135.4	136.2	139.6	142.9	139.6	136.2	135.4	129.7	122.1	118.3	115.6
152.5°	132.9	133.5	136.0	138.6	136.0	133.5	132.9	128.0	121.5	118.3	115.8
155°	129.9	130.3	132.0	133.7	132.0	130.3	129.9	126.1	120.9	118.3	116.4
157.5°	127.3	127.6	128.8	130.0	128.8	127.6	127.3	124.3	120.3	118.3	117.0
160°	126.0	126.2	126.9	127.5	126.9	126.2	126.0	123.4	120.0	118.3	117.2
162.5°	124.8	124.9	125.6	126.2	125.6	124.9	124.8	122.6	119.7	118.3	117.6
165°	122.9	123.1	123.8	124.5	123.8	123.1	122.9	121.4	119.3	118.3	118.0
167.5°	122.1	122.2	122.5	122.8	122.5	122.2	122.1	121.1	119.7	119.1	118.8
170°	122.1	122.1	122.1	122.1	122.1	122.1	122.1	121.1	119.7	119.1	119.1
172.5°	121.5	121.4	121.2	120.9	121.2	121.4	121.5	120.7	119.6	119.1	119.1
175°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.1	119.4	119.1	119.2
177.5°	120.4	120.4	120.1	119.8	120.1	120.4	120.4	120.0	119.5	119.2	119.4
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8



TEST NUMBER: P934050

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4

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°	3.5	2.2	2.1	1.4	0.8
92.5°	21.8	15.5	14.1	8.7	3.2
95°	53.7	30.3	27.8	17.7	7.7
97.5°	72.4	33.2	31.0	22.2	13.3
100°	79.1	35.7	33.7	25.7	17.7
102.5°	82.2	38.2	36.4	28.8	21.4
105°	84.6	41.9	40.3	34.0	27.7
107.5°	85.0	47.4	45.9	40.0	34.1
110°	84.3	50.4	49.1	43.8	38.5



TEST NUMBER: P934050

CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	84.3	54.1	52.8	47.8	42.7
115°	85.1	59.7	58.5	53.8	49.1
117.5°	86.7	65.0	64.0	59.7	55.5
120°	87.9	68.2	67.2	63.2	59.2
122.5°	89.8	71.9	70.8	66.8	62.8
125°	92.3	76.7	75.7	72.0	68.3
127.5°	94.8	81.3	80.3	76.6	72.8
130°	96.7	84.3	83.3	79.3	75.2
132.5°	98.1	86.8	85.8	81.8	77.8
135°	99.7	89.7	88.8	85.1	81.5
137.5°	102.1	93.4	92.5	88.9	85.3
140°	103.6	95.9	95.1	91.7	88.4
142.5°	104.9	97.7	96.9	93.9	90.8
145°	106.5	100.5	99.9	97.2	94.5
147.5°	108.8	104.1	103.4	100.8	98.2
150°	110.0	105.9	105.4	102.9	100.6
152.5°	110.8	107.1	106.6	104.9	103.1
155°	112.6	109.8	109.4	108.1	106.8
157.5°	114.3	112.4	112.1	110.8	109.5
160°	115.2	113.6	113.4	112.3	111.4
162.5°	116.0	114.9	114.7	113.9	113.2
165°	117.2	116.8	116.6	115.9	115.2
167.5°	118.2	117.8	117.7	117.4	117.1
170°	119.0	119.0	118.9	118.6	118.3
172.5°	119.1	119.1	119.1	119.0	118.9
175°	119.6	119.8	119.8	119.8	119.8
177.5°	119.6	119.8	119.8	119.8	119.8
180°	119.8	119.8	119.8	119.8	119.8



TEST NUMBER: P934050
 CATALOG NUMBER: SQ4-FA-025U-100D-930-1D-UNV-STD-W-4

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	15.27	16.47	15.93	17.14	17.93	18.06	19.26	18.72	19.94	20.73
	3H	15.77	16.85	16.44	17.53	18.36	19.42	20.50	20.10	21.19	22.01
	4H	15.98	16.99	16.67	17.69	18.53	19.88	20.89	20.57	21.59	22.43
	6H	16.11	17.05	16.82	17.76	18.61	20.17	21.11	20.88	21.82	22.67
	8H	16.12	17.02	16.84	17.75	18.60	20.25	21.14	20.97	21.87	22.73
	12H	16.10	16.96	16.83	17.68	18.56	20.30	21.15	21.02	21.87	22.75
4H	2H	16.33	17.35	17.03	18.05	18.88	18.51	19.53	19.21	20.23	21.06
	3H	17.39	18.24	18.10	18.97	19.83	20.04	20.89	20.75	21.63	22.48
	4H	17.68	18.45	18.41	19.19	20.07	20.58	21.34	21.30	22.08	22.97
	6H	17.82	18.49	18.57	19.25	20.15	20.95	21.62	21.70	22.38	23.27
	8H	17.84	18.46	18.59	19.22	20.12	21.06	21.68	21.81	22.45	23.35
	12H	17.82	18.38	18.59	19.16	20.07	21.13	21.69	21.90	22.47	23.38
8H	4H	18.15	18.78	18.91	19.54	20.44	20.73	21.35	21.48	22.11	23.02
	6H	18.43	18.95	19.21	19.75	20.65	21.17	21.69	21.95	22.49	23.40
	8H	18.48	18.93	19.27	19.74	20.66	21.32	21.78	22.11	22.58	23.51
	12H	18.48	18.88	19.27	19.67	20.65	21.43	21.83	22.22	22.63	23.61
12H	4H	18.18	18.74	18.95	19.52	20.43	20.71	21.27	21.48	22.05	22.96
	6H	18.49	18.95	19.28	19.76	20.68	21.17	21.63	21.96	22.43	23.36
	8H	18.57	18.98	19.37	19.77	20.75	21.34	21.75	22.14	22.54	23.52