

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: P934450

Luminaire Tested: SQ4-FA-050U-100D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

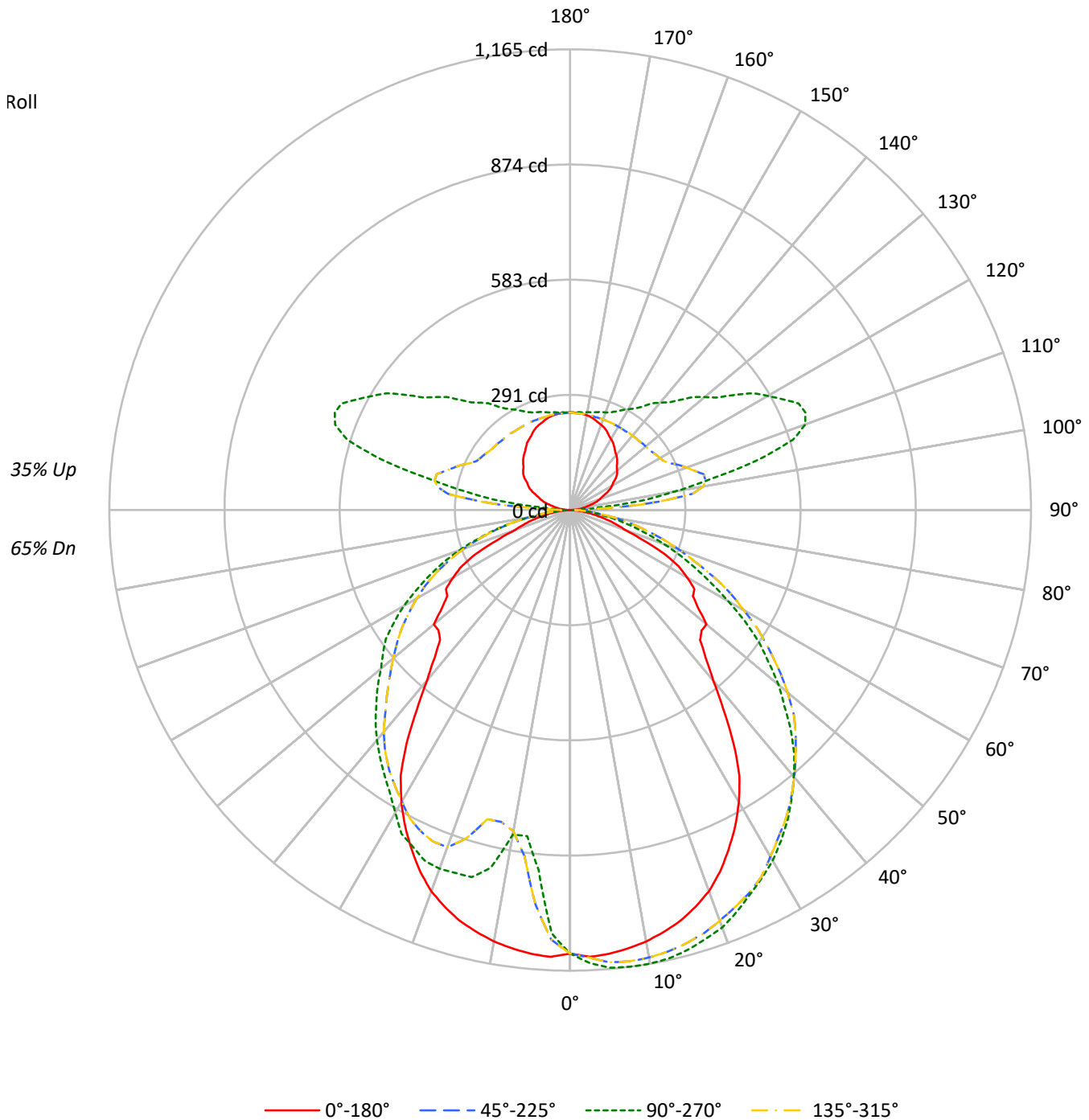
Test Method: LM-79-2019  
Report Number: P934450  
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4507.2 lumens  
Efficiency: N/A  
Efficacy: 99.7 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): 45.2  
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

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### Luminous Intensity Polar Plot





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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

**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	2.2
10°-20°	287.4	6.4
20°-30°	444.3	9.9
30°-40°	530.4	11.8
40°-50°	533.5	11.8
50°-60°	464.2	10.3
60°-70°	329.1	7.3
70°-80°	174.1	3.9
80°-90°	44.3	1.0
90°-100°	120.2	2.7
100°-110°	316.0	7.0
110°-120°	327.7	7.3
120°-130°	262.9	5.8
130°-140°	206.2	4.6
140°-150°	158.3	3.5
150°-160°	114.0	2.5
160°-170°	69.8	1.5
170°-180°	23.6	0.5
0°-30°	832.9	18.5
0°-40°	1363.3	30.2
0°-60°	2361.0	52.4
0°-90°	2908.6	64.5
90°-120°	763.9	16.9
90°-150°	1391.3	30.9
90°-180°	1599.0	35.5
0°-180°	4507.2	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°	2	6	2	6	2	2
95°	16	73	16	73	16	18
105°	57	495	57	495	57	60
115°	101	637	101	637	101	100
125°	141	507	141	507	141	125
135°	168	394	168	394	168	130
145°	194	319	194	319	194	122
155°	220	275	220	275	220	101
165°	237	256	237	256	237	67
175°	247	248	247	248	247	23
180°	247	247	247	247	247	



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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°	1.7	3.0	4.3	4.7	7.3	10.8	12.6	11.2	8.4	6.3	6.3
92.5°	6.6	17.8	29.1	32.0	44.9	62.2	70.8	62.1	44.6	31.5	30.2
95°	15.9	36.5	57.1	62.2	110.5	174.8	207.0	184.7	140.1	106.7	102.9
97.5°	27.5	45.6	63.8	68.3	148.8	256.2	309.8	295.7	267.6	246.4	239.2
100°	36.4	52.8	69.4	73.5	162.8	281.9	341.4	342.5	344.6	346.1	337.5
102.5°	44.0	59.4	74.8	78.6	169.2	290.0	350.3	368.3	404.2	431.1	423.7
105°	56.9	69.9	82.9	86.2	173.9	290.9	349.4	389.6	470.1	530.5	526.5
107.5°	70.2	82.3	94.4	97.5	174.8	278.0	329.6	385.7	497.9	582.1	583.1
110°	79.1	90.0	101.0	103.7	173.5	266.5	313.0	375.7	501.2	595.3	599.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	87.8	98.3	108.7	111.4	173.5	256.5	297.9	362.2	490.6	586.9	593.3
115°	101.1	110.7	120.4	122.8	175.1	244.9	279.8	341.7	465.4	558.2	567.0
117.5°	114.2	122.9	131.7	133.9	178.4	237.8	267.5	323.3	434.9	518.7	528.4
120°	121.8	130.1	138.3	140.4	181.1	235.4	262.5	313.5	415.6	492.1	501.6
122.5°	129.3	137.6	145.9	148.0	184.9	234.1	258.6	304.6	396.5	465.4	474.7
125°	140.7	148.2	155.8	157.7	190.0	233.0	254.6	293.6	371.6	430.2	438.8
127.5°	149.9	157.6	165.3	167.2	195.1	232.5	251.1	284.6	351.6	401.8	409.0
130°	154.9	163.2	171.4	173.4	198.9	232.8	249.7	279.6	339.3	384.0	390.7
132.5°	160.0	168.3	176.5	178.6	202.0	233.0	248.6	275.3	328.7	368.7	374.8
135°	167.7	175.1	182.7	184.5	205.2	232.8	246.6	268.9	313.7	347.2	352.4
137.5°	175.5	182.8	190.3	192.2	210.2	234.2	246.3	265.2	303.0	331.3	335.6
140°	181.9	188.7	195.6	197.3	213.2	234.5	245.1	261.5	294.1	318.6	322.6
142.5°	186.9	193.2	199.5	201.1	215.8	235.3	245.1	259.4	288.1	309.6	313.0
145°	194.5	199.9	205.5	206.9	219.1	235.4	243.5	255.2	278.6	296.2	298.8
147.5°	202.1	207.5	212.8	214.2	224.0	237.0	243.5	252.7	271.2	285.0	287.2
150°	207.0	211.8	216.7	217.9	226.4	237.8	243.5	251.3	266.8	278.6	280.3
152.5°	212.2	215.8	219.5	220.4	228.1	238.3	243.5	250.1	263.5	273.4	274.7
155°	219.8	222.5	225.2	225.9	231.7	239.5	243.5	248.8	259.4	267.3	268.2
157.5°	225.4	228.1	230.7	231.3	235.4	240.7	243.5	247.6	255.8	262.0	262.7
160°	229.3	231.3	233.4	233.8	237.0	241.3	243.5	247.0	254.1	259.4	259.7
162.5°	233.0	234.6	236.1	236.5	238.8	241.9	243.5	246.4	252.4	256.9	257.2
165°	237.2	238.6	240.0	240.3	241.4	242.7	243.5	245.6	249.8	253.0	253.3
167.5°	241.0	241.6	242.3	242.4	243.3	244.5	245.1	246.5	249.3	251.4	251.6
170°	243.5	244.1	244.8	244.9	245.0	245.1	245.1	246.5	249.3	251.4	251.4
172.5°	244.8	244.9	245.1	245.1	245.1	245.1	245.1	246.2	248.4	250.1	249.9
175°	246.6	246.6	246.6	246.6	246.1	245.4	245.1	245.8	247.2	248.3	248.3
177.5°	246.6	246.6	246.6	246.6	246.2	245.7	245.5	246.0	247.2	248.0	247.8
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



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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°	6.3	6.3	6.3	6.3	6.3	8.4	11.2	12.6	10.8	7.3	4.7
92.5°	25.2	20.2	25.2	30.2	31.5	44.6	62.1	70.8	62.2	44.9	32.0
95°	87.8	72.7	87.8	102.9	106.7	140.1	184.7	207.0	174.8	110.5	62.2
97.5°	210.4	181.6	210.4	239.2	246.4	267.6	295.7	309.8	256.2	148.8	68.3
100°	303.1	268.8	303.1	337.5	346.1	344.6	342.5	341.4	281.9	162.8	73.5
102.5°	394.4	365.0	394.4	423.7	431.1	404.2	368.3	350.3	290.0	169.2	78.6
105°	510.7	494.9	510.7	526.5	530.5	470.1	389.6	349.4	290.9	173.9	86.2
107.5°	586.8	590.7	586.8	583.1	582.1	497.9	385.7	329.6	278.0	174.8	97.5
110°	615.9	632.4	615.9	599.4	595.3	501.2	375.7	313.0	266.5	173.5	103.7





TEST NUMBER: P934450

CATALOG NUMBER: SQ4-FA-050U-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°	618.6	643.8	618.6	593.3	586.9	490.6	362.2	297.9	256.5	173.5	111.4
115°	602.1	637.2	602.1	567.0	558.2	465.4	341.7	279.8	244.9	175.1	122.8
117.5°	567.3	606.3	567.3	528.4	518.7	434.9	323.3	267.5	237.8	178.4	133.9
120°	539.3	577.1	539.3	501.6	492.1	415.6	313.5	262.5	235.4	181.1	140.4
122.5°	512.1	549.3	512.1	474.7	465.4	396.5	304.6	258.6	234.1	184.9	148.0
125°	473.0	507.4	473.0	438.8	430.2	371.6	293.6	254.6	233.0	190.0	157.7
127.5°	438.0	467.0	438.0	409.0	401.8	351.6	284.6	251.1	232.5	195.1	167.2
130°	417.5	444.2	417.5	390.7	384.0	339.3	279.6	249.7	232.8	198.9	173.4
132.5°	398.7	422.7	398.7	374.8	368.7	328.7	275.3	248.6	233.0	202.0	178.6
135°	373.1	393.7	373.1	352.4	347.2	313.7	268.9	246.6	232.8	205.2	184.5
137.5°	352.4	369.4	352.4	335.6	331.3	303.0	265.2	246.3	234.2	210.2	192.2
140°	338.4	354.2	338.4	322.6	318.6	294.1	261.5	245.1	234.5	213.2	197.3
142.5°	326.7	340.3	326.7	313.0	309.6	288.1	259.4	245.1	235.3	215.8	201.1
145°	309.2	319.4	309.2	298.8	296.2	278.6	255.2	243.5	235.4	219.1	206.9
147.5°	295.7	304.2	295.7	287.2	285.0	271.2	252.7	243.5	237.0	224.0	214.2
150°	287.2	294.1	287.2	280.3	278.6	266.8	251.3	243.5	237.8	226.4	217.9
152.5°	279.9	285.1	279.9	274.7	273.4	263.5	250.1	243.5	238.3	228.1	220.4
155°	271.7	275.1	271.7	268.2	267.3	259.4	248.8	243.5	239.5	231.7	225.9
157.5°	265.1	267.5	265.1	262.7	262.0	255.8	247.6	243.5	240.7	235.4	231.3
160°	261.1	262.5	261.1	259.7	259.4	254.1	247.0	243.5	241.3	237.0	233.8
162.5°	258.6	259.9	258.6	257.2	256.9	252.4	246.4	243.5	241.9	238.8	236.5
165°	254.8	256.2	254.8	253.3	253.0	249.8	245.6	243.5	242.7	241.4	240.3
167.5°	252.1	252.7	252.1	251.6	251.4	249.3	246.5	245.1	244.5	243.3	242.4
170°	251.4	251.4	251.4	251.4	251.4	249.3	246.5	245.1	245.1	245.0	244.9
172.5°	249.4	248.9	249.4	249.9	250.1	248.4	246.2	245.1	245.1	245.1	245.1
175°	248.3	248.3	248.3	248.3	248.3	247.2	245.8	245.1	245.4	246.1	246.6
177.5°	247.2	246.6	247.2	247.8	248.0	247.2	246.0	245.5	245.7	246.2	246.6
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



TEST NUMBER: P934450

CATALOG NUMBER: SQ4-FA-050U-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°	4.3	3.0	1.7	3.0	4.3	4.7	7.3	10.8	12.6	11.2	8.4
92.5°	29.1	17.8	6.6	17.8	29.1	32.0	44.9	62.2	70.8	62.1	44.6
95°	57.1	36.5	15.9	36.5	57.1	62.2	110.5	174.8	207.0	184.7	140.1
97.5°	63.8	45.6	27.5	45.6	63.8	68.3	148.8	256.2	309.8	295.7	267.6
100°	69.4	52.8	36.4	52.8	69.4	73.5	162.8	281.9	341.4	342.5	344.6
102.5°	74.8	59.4	44.0	59.4	74.8	78.6	169.2	290.0	350.3	368.3	404.2
105°	82.9	69.9	56.9	69.9	82.9	86.2	173.9	290.9	349.4	389.6	470.1
107.5°	94.4	82.3	70.2	82.3	94.4	97.5	174.8	278.0	329.6	385.7	497.9
110°	101.0	90.0	79.1	90.0	101.0	103.7	173.5	266.5	313.0	375.7	501.2



TEST NUMBER: P934450

CATALOG NUMBER: SQ4-FA-050U-100D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	108.7	98.3	87.8	98.3	108.7	111.4	173.5	256.5	297.9	362.2	490.6
115°	120.4	110.7	101.1	110.7	120.4	122.8	175.1	244.9	279.8	341.7	465.4
117.5°	131.7	122.9	114.2	122.9	131.7	133.9	178.4	237.8	267.5	323.3	434.9
120°	138.3	130.1	121.8	130.1	138.3	140.4	181.1	235.4	262.5	313.5	415.6
122.5°	145.9	137.6	129.3	137.6	145.9	148.0	184.9	234.1	258.6	304.6	396.5
125°	155.8	148.2	140.7	148.2	155.8	157.7	190.0	233.0	254.6	293.6	371.6
127.5°	165.3	157.6	149.9	157.6	165.3	167.2	195.1	232.5	251.1	284.6	351.6
130°	171.4	163.2	154.9	163.2	171.4	173.4	198.9	232.8	249.7	279.6	339.3
132.5°	176.5	168.3	160.0	168.3	176.5	178.6	202.0	233.0	248.6	275.3	328.7
135°	182.7	175.1	167.7	175.1	182.7	184.5	205.2	232.8	246.6	268.9	313.7
137.5°	190.3	182.8	175.5	182.8	190.3	192.2	210.2	234.2	246.3	265.2	303.0
140°	195.6	188.7	181.9	188.7	195.6	197.3	213.2	234.5	245.1	261.5	294.1
142.5°	199.5	193.2	186.9	193.2	199.5	201.1	215.8	235.3	245.1	259.4	288.1
145°	205.5	199.9	194.5	199.9	205.5	206.9	219.1	235.4	243.5	255.2	278.6
147.5°	212.8	207.5	202.1	207.5	212.8	214.2	224.0	237.0	243.5	252.7	271.2
150°	216.7	211.8	207.0	211.8	216.7	217.9	226.4	237.8	243.5	251.3	266.8
152.5°	219.5	215.8	212.2	215.8	219.5	220.4	228.1	238.3	243.5	250.1	263.5
155°	225.2	222.5	219.8	222.5	225.2	225.9	231.7	239.5	243.5	248.8	259.4
157.5°	230.7	228.1	225.4	228.1	230.7	231.3	235.4	240.7	243.5	247.6	255.8
160°	233.4	231.3	229.3	231.3	233.4	233.8	237.0	241.3	243.5	247.0	254.1
162.5°	236.1	234.6	233.0	234.6	236.1	236.5	238.8	241.9	243.5	246.4	252.4
165°	240.0	238.6	237.2	238.6	240.0	240.3	241.4	242.7	243.5	245.6	249.8
167.5°	242.3	241.6	241.0	241.6	242.3	242.4	243.3	244.5	245.1	246.5	249.3
170°	244.8	244.1	243.5	244.1	244.8	244.9	245.0	245.1	245.1	246.5	249.3
172.5°	245.1	244.9	244.8	244.9	245.1	245.1	245.1	245.1	245.1	246.2	248.4
175°	246.6	246.6	246.6	246.6	246.6	246.6	246.1	245.4	245.1	245.8	247.2
177.5°	246.6	246.6	246.6	246.6	246.6	246.6	246.2	245.7	245.5	246.0	247.2
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



TEST NUMBER: P934450

CATALOG NUMBER: SQ4-FA-050U-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°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	11.2	12.6	10.8
92.5°	31.5	30.2	25.2	20.2	25.2	30.2	31.5	44.6	62.1	70.8	62.2
95°	106.7	102.9	87.8	72.7	87.8	102.9	106.7	140.1	184.7	207.0	174.8
97.5°	246.4	239.2	210.4	181.6	210.4	239.2	246.4	267.6	295.7	309.8	256.2
100°	346.1	337.5	303.1	268.8	303.1	337.5	346.1	344.6	342.5	341.4	281.9
102.5°	431.1	423.7	394.4	365.0	394.4	423.7	431.1	404.2	368.3	350.3	290.0
105°	530.5	526.5	510.7	494.9	510.7	526.5	530.5	470.1	389.6	349.4	290.9
107.5°	582.1	583.1	586.8	590.7	586.8	583.1	582.1	497.9	385.7	329.6	278.0
110°	595.3	599.4	615.9	632.4	615.9	599.4	595.3	501.2	375.7	313.0	266.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	586.9	593.3	618.6	643.8	618.6	593.3	586.9	490.6	362.2	297.9	256.5
115°	558.2	567.0	602.1	637.2	602.1	567.0	558.2	465.4	341.7	279.8	244.9
117.5°	518.7	528.4	567.3	606.3	567.3	528.4	518.7	434.9	323.3	267.5	237.8
120°	492.1	501.6	539.3	577.1	539.3	501.6	492.1	415.6	313.5	262.5	235.4
122.5°	465.4	474.7	512.1	549.3	512.1	474.7	465.4	396.5	304.6	258.6	234.1
125°	430.2	438.8	473.0	507.4	473.0	438.8	430.2	371.6	293.6	254.6	233.0
127.5°	401.8	409.0	438.0	467.0	438.0	409.0	401.8	351.6	284.6	251.1	232.5
130°	384.0	390.7	417.5	444.2	417.5	390.7	384.0	339.3	279.6	249.7	232.8
132.5°	368.7	374.8	398.7	422.7	398.7	374.8	368.7	328.7	275.3	248.6	233.0
135°	347.2	352.4	373.1	393.7	373.1	352.4	347.2	313.7	268.9	246.6	232.8
137.5°	331.3	335.6	352.4	369.4	352.4	335.6	331.3	303.0	265.2	246.3	234.2
140°	318.6	322.6	338.4	354.2	338.4	322.6	318.6	294.1	261.5	245.1	234.5
142.5°	309.6	313.0	326.7	340.3	326.7	313.0	309.6	288.1	259.4	245.1	235.3
145°	296.2	298.8	309.2	319.4	309.2	298.8	296.2	278.6	255.2	243.5	235.4
147.5°	285.0	287.2	295.7	304.2	295.7	287.2	285.0	271.2	252.7	243.5	237.0
150°	278.6	280.3	287.2	294.1	287.2	280.3	278.6	266.8	251.3	243.5	237.8
152.5°	273.4	274.7	279.9	285.1	279.9	274.7	273.4	263.5	250.1	243.5	238.3
155°	267.3	268.2	271.7	275.1	271.7	268.2	267.3	259.4	248.8	243.5	239.5
157.5°	262.0	262.7	265.1	267.5	265.1	262.7	262.0	255.8	247.6	243.5	240.7
160°	259.4	259.7	261.1	262.5	261.1	259.7	259.4	254.1	247.0	243.5	241.3
162.5°	256.9	257.2	258.6	259.9	258.6	257.2	256.9	252.4	246.4	243.5	241.9
165°	253.0	253.3	254.8	256.2	254.8	253.3	253.0	249.8	245.6	243.5	242.7
167.5°	251.4	251.6	252.1	252.7	252.1	251.6	251.4	249.3	246.5	245.1	244.5
170°	251.4	251.4	251.4	251.4	251.4	251.4	251.4	249.3	246.5	245.1	245.1
172.5°	250.1	249.9	249.4	248.9	249.4	249.9	250.1	248.4	246.2	245.1	245.1
175°	248.3	248.3	248.3	248.3	248.3	248.3	248.3	247.2	245.8	245.1	245.4
177.5°	248.0	247.8	247.2	246.6	247.2	247.8	248.0	247.2	246.0	245.5	245.7
180°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6



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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°	7.3	4.7	4.3	3.0	1.7
92.5°	44.9	32.0	29.1	17.8	6.6
95°	110.5	62.2	57.1	36.5	15.9
97.5°	148.8	68.3	63.8	45.6	27.5
100°	162.8	73.5	69.4	52.8	36.4
102.5°	169.2	78.6	74.8	59.4	44.0
105°	173.9	86.2	82.9	69.9	56.9
107.5°	174.8	97.5	94.4	82.3	70.2
110°	173.5	103.7	101.0	90.0	79.1



TEST NUMBER: P934450

CATALOG NUMBER: SQ4-FA-050U-100D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	173.5	111.4	108.7	98.3	87.8
115°	175.1	122.8	120.4	110.7	101.1
117.5°	178.4	133.9	131.7	122.9	114.2
120°	181.1	140.4	138.3	130.1	121.8
122.5°	184.9	148.0	145.9	137.6	129.3
125°	190.0	157.7	155.8	148.2	140.7
127.5°	195.1	167.2	165.3	157.6	149.9
130°	198.9	173.4	171.4	163.2	154.9
132.5°	202.0	178.6	176.5	168.3	160.0
135°	205.2	184.5	182.7	175.1	167.7
137.5°	210.2	192.2	190.3	182.8	175.5
140°	213.2	197.3	195.6	188.7	181.9
142.5°	215.8	201.1	199.5	193.2	186.9
145°	219.1	206.9	205.5	199.9	194.5
147.5°	224.0	214.2	212.8	207.5	202.1
150°	226.4	217.9	216.7	211.8	207.0
152.5°	228.1	220.4	219.5	215.8	212.2
155°	231.7	225.9	225.2	222.5	219.8
157.5°	235.4	231.3	230.7	228.1	225.4
160°	237.0	233.8	233.4	231.3	229.3
162.5°	238.8	236.5	236.1	234.6	233.0
165°	241.4	240.3	240.0	238.6	237.2
167.5°	243.3	242.4	242.3	241.6	241.0
170°	245.0	244.9	244.8	244.1	243.5
172.5°	245.1	245.1	245.1	244.9	244.8
175°	246.1	246.6	246.6	246.6	246.6
177.5°	246.2	246.6	246.6	246.6	246.6
180°	246.6	246.6	246.6	246.6	246.6



TEST NUMBER: P934450  
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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	14.17	15.18	15.00	16.03	17.08	16.97	17.98	17.79	18.82	19.87
	3H	14.66	15.57	15.50	16.42	17.50	18.32	19.22	19.15	20.08	21.15
	4H	14.86	15.72	15.71	16.58	17.66	18.76	19.62	19.61	20.48	21.56
	6H	14.99	15.78	15.85	16.64	17.74	19.05	19.84	19.91	20.70	21.80
	8H	14.99	15.74	15.87	16.63	17.73	19.12	19.87	19.99	20.76	21.86
	12H	14.97	15.69	15.85	16.57	17.69	19.16	19.88	20.04	20.76	21.88
4H	2H	15.22	16.07	16.07	16.93	18.02	17.40	18.26	18.26	19.12	20.20
	3H	16.26	16.97	17.13	17.86	18.97	18.91	19.62	19.78	20.52	21.62
	4H	16.54	17.19	17.42	18.08	19.21	19.44	20.09	20.32	20.98	22.11
	6H	16.67	17.23	17.57	18.15	19.28	19.80	20.36	20.70	21.28	22.41
	8H	16.68	17.21	17.58	18.12	19.26	19.91	20.43	20.81	21.34	22.49
	12H	16.66	17.13	17.58	18.06	19.21	19.97	20.44	20.89	21.37	22.52
8H	4H	17.00	17.52	17.90	18.43	19.58	19.58	20.10	20.47	21.01	22.15
	6H	17.27	17.70	18.19	18.65	19.80	20.01	20.44	20.93	21.39	22.54
	8H	17.31	17.70	18.25	18.64	19.80	20.16	20.54	21.09	21.48	22.65
	12H	17.30	17.64	18.24	18.58	19.79	20.26	20.60	21.20	21.53	22.74
12H	4H	17.01	17.48	17.93	18.41	19.56	19.55	20.02	20.46	20.95	22.10
	6H	17.33	17.71	18.26	18.66	19.82	20.01	20.39	20.94	21.33	22.50
	8H	17.40	17.74	18.34	18.68	19.89	20.17	20.51	21.11	21.44	22.66