

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: P934422

Luminaire Tested: SQ4-FA-050U-100D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934422
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-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

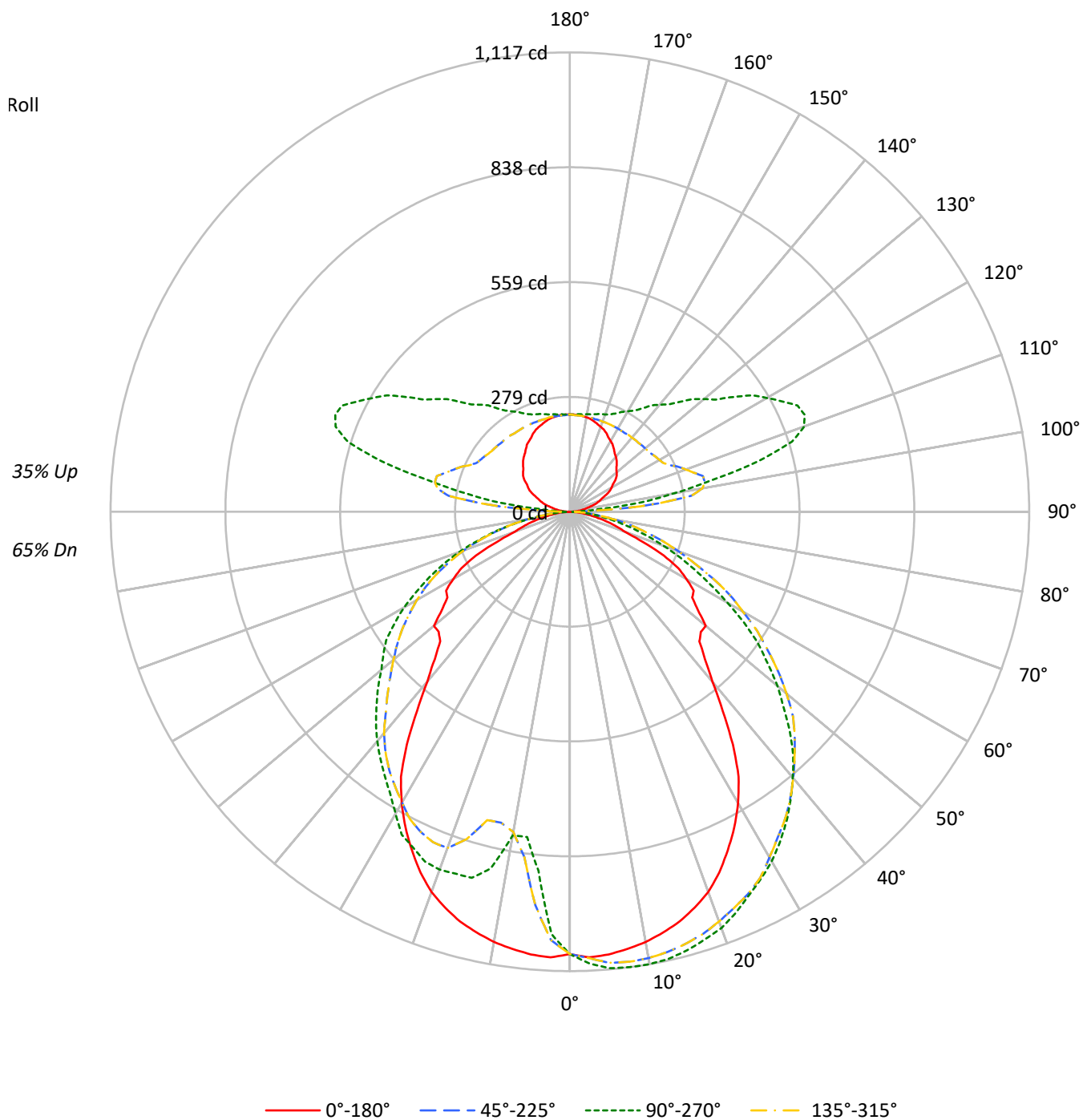
Lumens per Lamp: N/A
Luminaire Lumens: 4322.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	59	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	50	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	42	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	36	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	32	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	28	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	25	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	20	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9978	9978	9978	9978
5°	10043	10073	10043	7921
10°	9964	9922	9964	7093
15°	9844	9707	9844	8105
20°	9627	9453	9627	8123
25°	9194	9081	9194	7951
30°	8640	8773	8640	7573
35°	7691	8383	7691	7157
40°	6397	7924	6397	6843
45°	5705	7386	5705	6483
50°	6047	6746	6047	6120
55°	5673	6055	5673	5911
60°	5827	5141	5827	5413
65°	5258	4250	5258	4752
70°	3618	3388	3618	3983
75°	3135	2504	3135	2999
80°	2476	1656	2476	1803
85°	1341	877	1341	745

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	2.2
10°-20°	275.6	6.4
20°-30°	426.0	9.9
30°-40°	508.6	11.8
40°-50°	511.6	11.8
50°-60°	445.1	10.3
60°-70°	315.6	7.3
70°-80°	167.0	3.9
80°-90°	42.5	1.0
90°-100°	115.3	2.7
100°-110°	303.0	7.0
110°-120°	314.2	7.3
120°-130°	252.0	5.8
130°-140°	197.8	4.6
140°-150°	151.8	3.5
150°-160°	109.3	2.5
160°-170°	66.9	1.5
170°-180°	22.6	0.5
0°-30°	798.7	18.5
0°-40°	1307.3	30.2
0°-60°	2264.0	52.4
0°-90°	2789.1	64.5
90°-120°	732.5	16.9
90°-150°	1334.1	30.9
90°-180°	1533.0	35.5
0°-180°	4322.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1080	1114	1080	876	1080	102
15°	1032	1104	1032	922	1032	290
25°	908	1030	908	901	908	417
35°	691	919	691	784	691	427
45°	446	757	446	664	446	357
55°	363	559	363	545	363	334
65°	252	337	252	376	252	241
75°	96	160	96	191	96	101
85°	16	41	16	35	16	22
90°	2	6	2	6	2	2
95°	15	70	15	70	15	17
105°	55	475	55	475	55	58
115°	97	611	97	611	97	96
125°	135	487	135	487	135	120
135°	161	378	161	378	161	124
145°	186	306	186	306	186	117
155°	211	264	211	264	211	97
165°	228	246	228	246	228	64
175°	236	238	236	238	236	22
180°	236	236	236	236	236	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1084.5	1084.5	1090.6	1092.6	1092.6	1089.6	1086.5	1089.6	1098.7	1101.8	1100.8
5°	1080.5	1088.5	1099.8	1101.8	1103.8	1102.8	1100.8	1102.8	1113.0	1115.0	1116.0
7.5°	1072.3	1087.5	1101.8	1104.9	1107.9	1104.9	1103.8	1105.9	1116.0	1118.0	1118.0
10°	1062.1	1083.5	1099.8	1101.8	1104.9	1101.8	1101.8	1105.9	1116.0	1118.0	1119.1
12.5°	1047.9	1077.4	1092.6	1094.7	1098.7	1097.7	1096.7	1100.8	1111.0	1113.0	1113.0
15°	1031.6	1066.2	1080.5	1082.5	1089.6	1087.5	1087.5	1091.6	1102.8	1105.9	1104.9
17.5°	1009.2	1052.0	1068.2	1071.3	1076.4	1075.3	1076.4	1080.5	1090.6	1092.6	1093.6
20°	983.8	1032.6	1052.0	1055.0	1060.1	1060.1	1060.1	1065.1	1075.3	1079.4	1079.4
22.5°	949.2	1012.2	1032.6	1034.6	1040.7	1040.7	1042.8	1049.9	1059.1	1060.1	1060.1
25°	908.5	989.9	1007.2	1013.3	1019.4	1022.4	1025.5	1029.6	1032.6	1031.6	1032.6
27.5°	865.8	961.4	983.8	987.8	996.0	999.1	1003.1	1004.2	1005.2	1008.2	1006.2
30°	818.0	921.7	955.3	959.3	972.6	974.6	970.6	972.6	977.7	979.7	981.8
32.5°	764.0	862.7	925.8	934.9	947.2	941.0	940.0	943.1	951.3	951.3	953.3
35°	690.8	817.0	898.4	906.4	915.6	908.5	912.5	913.6	918.7	921.7	920.7
37.5°	610.4	777.2	869.9	876.0	883.0	873.9	880.0	883.0	887.1	885.1	885.1
40°	539.2	715.2	836.3	840.3	846.5	839.3	845.4	847.5	849.5	847.5	846.5
42.5°	486.3	647.0	800.6	805.7	801.6	806.7	808.8	812.9	809.8	805.7	805.7
45°	445.6	628.7	762.0	768.1	762.0	770.2	773.2	773.2	764.0	762.0	761.0
47.5°	432.4	592.1	723.3	723.3	720.3	730.4	735.6	728.4	719.3	716.3	716.3
50°	431.4	551.4	670.4	666.4	680.6	692.8	687.8	680.6	673.5	662.3	662.3
52.5°	391.7	501.6	602.3	617.5	639.9	647.0	638.9	631.8	619.5	614.5	610.4
55°	363.2	449.7	540.2	570.7	594.1	603.3	588.0	580.9	562.6	559.6	557.5
57.5°	357.1	374.4	483.3	521.9	550.4	549.4	540.2	527.0	511.7	508.7	507.7
60°	327.6	270.6	422.2	468.0	497.5	494.4	486.3	474.1	459.8	457.8	455.8
62.5°	297.1	196.4	353.0	404.9	446.6	445.6	438.5	420.2	410.0	404.9	400.9
65°	252.3	164.8	251.3	336.7	396.8	398.8	383.5	370.3	359.1	353.0	352.0
67.5°	192.3	134.3	169.9	280.8	349.0	346.9	327.6	321.5	307.2	304.2	298.1
70°	142.5	89.6	118.0	227.9	302.1	297.1	281.8	274.7	261.5	254.3	250.2
72.5°	118.0	72.2	86.5	177.0	254.3	248.2	235.0	226.8	215.7	209.6	205.5
75°	95.6	76.3	66.1	131.2	206.5	202.4	190.3	182.1	172.9	164.8	165.9
77.5°	70.2	71.2	52.9	96.6	163.8	157.7	150.5	140.4	136.3	128.2	128.2
80°	52.9	56.0	39.7	66.1	118.0	118.0	111.9	104.8	97.6	93.6	93.6
82.5°	35.6	35.6	29.5	41.7	80.4	77.3	73.2	71.2	67.1	65.1	65.1
85°	16.2	20.3	18.3	25.4	43.7	45.8	45.8	43.7	42.7	40.7	41.7
87.5°	5.1	9.2	11.2	14.2	22.4	23.4	24.4	24.4	24.4	25.4	25.4
90°	1.6	2.8	4.2	4.5	7.0	10.4	12.1	10.7	8.0	6.0	6.0
92.5°	6.3	17.1	28.0	30.6	43.0	59.6	67.9	59.5	42.7	30.2	29.0
95°	15.2	35.0	54.7	59.7	106.0	167.6	198.5	177.1	134.4	102.3	98.7
97.5°	26.3	43.7	61.1	65.5	142.7	245.6	297.1	283.6	256.6	236.3	229.4
100°	34.9	50.7	66.5	70.5	156.1	270.3	327.4	328.4	330.4	331.9	323.6
102.5°	42.2	57.0	71.7	75.4	162.2	278.0	336.0	353.2	387.6	413.4	406.3
105°	54.6	67.1	79.5	82.7	166.8	279.0	335.0	373.6	450.8	508.7	504.9
107.5°	67.3	78.9	90.6	93.5	167.6	266.6	316.0	369.8	477.5	558.2	559.1
110°	75.8	86.3	96.9	99.5	166.4	255.6	300.1	360.3	480.6	570.9	574.8

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	84.2	94.2	104.3	106.8	166.4	245.9	285.7	347.3	470.4	562.8	568.9
115°	96.9	106.2	115.4	117.7	167.9	234.8	268.3	327.6	446.3	535.3	543.7
117.5°	109.5	117.9	126.3	128.4	171.1	228.0	256.5	310.0	417.0	497.3	506.7
120°	116.8	124.7	132.6	134.6	173.6	225.7	251.7	300.6	398.5	471.9	480.9
122.5°	124.0	132.0	139.9	141.9	177.3	224.5	248.0	292.1	380.2	446.3	455.2
125°	134.9	142.1	149.4	151.2	182.2	223.5	244.1	281.5	356.4	412.5	420.7
127.5°	143.8	151.2	158.5	160.3	187.1	222.9	240.8	272.9	337.1	385.3	392.2
130°	148.5	156.5	164.3	166.3	190.7	223.2	239.5	268.1	325.3	368.2	374.6
132.5°	153.5	161.4	169.2	171.2	193.7	223.5	238.4	264.0	315.2	353.6	359.4
135°	160.8	167.9	175.2	176.9	196.8	223.2	236.5	257.9	300.8	332.9	337.9
137.5°	168.2	175.3	182.5	184.3	201.6	224.6	236.2	254.3	290.5	317.7	321.8
140°	174.4	181.0	187.6	189.2	204.4	224.8	235.0	250.7	282.1	305.5	309.3
142.5°	179.2	185.3	191.3	192.8	206.9	225.6	235.0	248.8	276.3	296.9	300.1
145°	186.5	191.7	197.0	198.4	210.1	225.7	233.5	244.7	267.2	284.1	286.5
147.5°	193.8	199.0	204.0	205.4	214.8	227.2	233.5	242.3	260.0	273.3	275.4
150°	198.5	203.1	207.8	209.0	217.1	228.0	233.5	240.9	255.9	267.1	268.8
152.5°	203.4	207.0	210.5	211.4	218.8	228.5	233.5	239.9	252.6	262.2	263.4
155°	210.7	213.4	216.0	216.6	222.2	229.7	233.5	238.5	248.7	256.3	257.2
157.5°	216.1	218.7	221.2	221.8	225.7	230.8	233.5	237.4	245.3	251.3	251.9
160°	219.8	221.8	223.8	224.2	227.3	231.4	233.5	236.9	243.6	248.7	249.0
162.5°	223.5	224.9	226.4	226.8	229.0	232.0	233.5	236.3	242.0	246.3	246.6
165°	227.5	228.8	230.2	230.5	231.5	232.8	233.5	235.5	239.5	242.6	242.9
167.5°	231.1	231.7	232.3	232.5	233.3	234.5	235.0	236.4	239.1	241.1	241.2
170°	233.5	234.1	234.7	234.8	234.9	235.0	235.0	236.4	239.1	241.1	241.1
172.5°	234.7	234.8	235.0	235.0	235.0	235.0	235.0	236.1	238.2	239.8	239.6
175°	236.5	236.5	236.5	236.5	236.0	235.3	235.0	235.7	237.1	238.1	238.1
177.5°	236.5	236.5	236.5	236.5	236.1	235.6	235.4	235.9	237.0	237.8	237.6
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1102.8	1099.8	1102.8	1100.8	1101.8	1098.7	1089.6	1086.5	1089.6	1092.6	1092.6
5°	1116.0	1114.0	1116.0	1116.0	1115.0	1113.0	1102.8	1100.8	1102.8	1103.8	1101.8
7.5°	1120.1	1117.0	1120.1	1118.0	1118.0	1116.0	1105.9	1103.8	1104.9	1107.9	1104.9
10°	1120.1	1117.0	1120.1	1119.1	1118.0	1116.0	1105.9	1101.8	1101.8	1104.9	1101.8
12.5°	1115.0	1113.0	1115.0	1113.0	1113.0	1111.0	1100.8	1096.7	1097.7	1098.7	1094.7
15°	1106.9	1103.8	1106.9	1104.9	1105.9	1102.8	1091.6	1087.5	1087.5	1089.6	1082.5
17.5°	1094.7	1090.6	1094.7	1093.6	1092.6	1090.6	1080.5	1076.4	1075.3	1076.4	1071.3
20°	1080.5	1077.4	1080.5	1079.4	1079.4	1075.3	1065.1	1060.1	1060.1	1060.1	1055.0
22.5°	1058.1	1055.0	1058.1	1060.1	1060.1	1059.1	1049.9	1042.8	1040.7	1040.7	1034.6
25°	1032.6	1029.6	1032.6	1032.6	1031.6	1032.6	1029.6	1025.5	1022.4	1019.4	1013.3
27.5°	1008.2	1006.2	1008.2	1006.2	1008.2	1005.2	1004.2	1003.1	999.1	996.0	987.8
30°	983.8	981.8	983.8	981.8	979.7	977.7	972.6	970.6	974.6	972.6	959.3
32.5°	953.3	951.3	953.3	953.3	951.3	951.3	943.1	940.0	941.0	947.2	934.9
35°	921.7	918.7	921.7	920.7	921.7	918.7	913.6	912.5	908.5	915.6	906.4
37.5°	885.1	882.0	885.1	885.1	885.1	887.1	883.0	880.0	873.9	883.0	876.0
40°	847.5	843.4	847.5	846.5	847.5	849.5	847.5	845.4	839.3	846.5	840.3
42.5°	804.7	803.7	804.7	805.7	805.7	809.8	812.9	808.8	806.7	801.6	805.7
45°	758.9	756.9	758.9	761.0	762.0	764.0	773.2	773.2	770.2	762.0	768.1
47.5°	710.1	705.0	710.1	716.3	716.3	719.3	728.4	735.6	730.4	720.3	723.3
50°	658.2	659.3	658.2	662.3	662.3	673.5	680.6	687.8	692.8	680.6	666.4
52.5°	607.4	606.4	607.4	610.4	614.5	619.5	631.8	638.9	647.0	639.9	617.5
55°	556.5	558.6	556.5	557.5	559.6	562.6	580.9	588.0	603.3	594.1	570.7
57.5°	505.7	502.6	505.7	507.7	508.7	511.7	527.0	540.2	549.4	550.4	521.9
60°	446.6	442.5	446.6	455.8	457.8	459.8	474.1	486.3	494.4	497.5	468.0
62.5°	394.7	387.6	394.7	400.9	404.9	410.0	420.2	438.5	445.6	446.6	404.9
65°	339.8	336.7	339.8	352.0	353.0	359.1	370.3	383.5	398.8	396.8	336.7
67.5°	290.0	290.0	290.0	298.1	304.2	307.2	321.5	327.6	346.9	349.0	280.8
70°	244.2	243.2	244.2	250.2	254.3	261.5	274.7	281.8	297.1	302.1	227.9
72.5°	200.4	199.4	200.4	205.5	209.6	215.7	226.8	235.0	248.2	254.3	177.0
75°	161.8	159.7	161.8	165.9	164.8	172.9	182.1	190.3	202.4	206.5	131.2
77.5°	124.1	124.1	124.1	128.2	128.2	136.3	140.4	150.5	157.7	163.8	96.6
80°	92.6	91.6	92.6	93.6	93.6	97.6	104.8	111.9	118.0	118.0	66.1
82.5°	65.1	63.1	65.1	65.1	65.1	67.1	71.2	73.2	77.3	80.4	41.7
85°	40.7	40.7	40.7	41.7	40.7	42.7	43.7	45.8	45.8	43.7	25.4
87.5°	26.5	25.4	26.5	25.4	25.4	24.4	24.4	24.4	23.4	22.4	14.2
90°	6.0	6.0	6.0	6.0	6.0	8.0	10.7	12.1	10.4	7.0	4.5
92.5°	24.2	19.3	24.2	29.0	30.2	42.7	59.5	67.9	59.6	43.0	30.6
95°	84.2	69.7	84.2	98.7	102.3	134.4	177.1	198.5	167.6	106.0	59.7
97.5°	201.7	174.1	201.7	229.4	236.3	256.6	283.6	297.1	245.6	142.7	65.5
100°	290.7	257.7	290.7	323.6	331.9	330.4	328.4	327.4	270.3	156.1	70.5
102.5°	378.1	350.0	378.1	406.3	413.4	387.6	353.2	336.0	278.0	162.2	75.4
105°	489.7	474.6	489.7	504.9	508.7	450.8	373.6	335.0	279.0	166.8	82.7
107.5°	562.7	566.4	562.7	559.1	558.2	477.5	369.8	316.0	266.6	167.6	93.5
110°	590.6	606.4	590.6	574.8	570.9	480.6	360.3	300.1	255.6	166.4	99.5

TEST NUMBER: P934422

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	593.1	617.4	593.1	568.9	562.8	470.4	347.3	285.7	245.9	166.4	106.8
115°	577.3	611.0	577.3	543.7	535.3	446.3	327.6	268.3	234.8	167.9	117.7
117.5°	544.0	581.4	544.0	506.7	497.3	417.0	310.0	256.5	228.0	171.1	128.4
120°	517.1	553.4	517.1	480.9	471.9	398.5	300.6	251.7	225.7	173.6	134.6
122.5°	491.0	526.8	491.0	455.2	446.3	380.2	292.1	248.0	224.5	177.3	141.9
125°	453.6	486.6	453.6	420.7	412.5	356.4	281.5	244.1	223.5	182.2	151.2
127.5°	420.0	447.8	420.0	392.2	385.3	337.1	272.9	240.8	222.9	187.1	160.3
130°	400.3	426.0	400.3	374.6	368.2	325.3	268.1	239.5	223.2	190.7	166.3
132.5°	382.3	405.3	382.3	359.4	353.6	315.2	264.0	238.4	223.5	193.7	171.2
135°	357.7	377.5	357.7	337.9	332.9	300.8	257.9	236.5	223.2	196.8	176.9
137.5°	338.0	354.2	338.0	321.8	317.7	290.5	254.3	236.2	224.6	201.6	184.3
140°	324.5	339.6	324.5	309.3	305.5	282.1	250.7	235.0	224.8	204.4	189.2
142.5°	313.2	326.3	313.2	300.1	296.9	276.3	248.8	235.0	225.6	206.9	192.8
145°	296.4	306.3	296.4	286.5	284.1	267.2	244.7	233.5	225.7	210.1	198.4
147.5°	283.5	291.7	283.5	275.4	273.3	260.0	242.3	233.5	227.2	214.8	205.4
150°	275.4	282.1	275.4	268.8	267.1	255.9	240.9	233.5	228.0	217.1	209.0
152.5°	268.4	273.4	268.4	263.4	262.2	252.6	239.9	233.5	228.5	218.8	211.4
155°	260.5	263.8	260.5	257.2	256.3	248.7	238.5	233.5	229.7	222.2	216.6
157.5°	254.2	256.5	254.2	251.9	251.3	245.3	237.4	233.5	230.8	225.7	221.8
160°	250.4	251.7	250.4	249.0	248.7	243.6	236.9	233.5	231.4	227.3	224.2
162.5°	247.9	249.2	247.9	246.6	246.3	242.0	236.3	233.5	232.0	229.0	226.8
165°	244.3	245.7	244.3	242.9	242.6	239.5	235.5	233.5	232.8	231.5	230.5
167.5°	241.8	242.3	241.8	241.2	241.1	239.1	236.4	235.0	234.5	233.3	232.5
170°	241.1	241.1	241.1	241.1	241.1	239.1	236.4	235.0	235.0	234.9	234.8
172.5°	239.2	238.7	239.2	239.6	239.8	238.2	236.1	235.0	235.0	235.0	235.0
175°	238.1	238.1	238.1	238.1	238.1	237.1	235.7	235.0	235.3	236.0	236.5
177.5°	237.1	236.5	237.1	237.6	237.8	237.0	235.9	235.4	235.6	236.1	236.5
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5

TEST NUMBER: P934422

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1090.6	1084.5	1084.5	1074.3	1070.2	1067.2	1062.1	1046.9	1042.8	1038.7	1044.8
5°	1099.8	1088.5	1080.5	1062.1	1046.9	1040.7	1021.4	984.8	960.3	942.1	931.9
7.5°	1101.8	1087.5	1072.3	1043.8	1007.2	990.9	931.9	864.8	846.5	830.1	820.0
10°	1099.8	1083.5	1062.1	1019.4	932.9	904.4	845.4	801.6	790.5	787.4	790.5
12.5°	1092.6	1077.4	1047.9	976.7	855.6	836.3	801.6	776.2	774.2	779.3	806.7
15°	1080.5	1066.2	1031.6	919.7	812.9	798.6	774.2	765.1	776.2	811.8	894.3
17.5°	1068.2	1052.0	1009.2	863.7	780.3	770.2	752.8	771.2	834.2	882.0	909.5
20°	1052.0	1032.6	983.8	823.1	756.9	747.7	739.6	822.1	869.9	887.1	902.4
22.5°	1032.6	1012.2	949.2	794.6	732.5	725.3	730.4	850.5	869.9	882.0	895.3
25°	1007.2	989.9	908.5	772.2	713.2	705.0	724.3	847.5	858.6	861.7	888.1
27.5°	983.8	961.4	865.8	751.8	689.8	686.7	729.4	834.2	842.4	845.4	873.9
30°	955.3	921.7	818.0	730.4	665.4	664.4	730.4	818.0	815.9	824.1	852.5
32.5°	925.8	862.7	764.0	704.0	641.9	640.9	723.3	793.6	791.5	802.7	824.1
35°	898.4	817.0	690.8	673.5	612.5	613.5	706.0	765.1	766.1	776.2	789.5
37.5°	869.9	777.2	610.4	639.9	584.0	584.0	682.6	738.6	736.6	739.6	757.9
40°	836.3	715.2	539.2	596.1	557.5	554.5	654.2	710.1	703.0	702.0	727.4
42.5°	800.6	647.0	486.3	538.2	527.0	522.9	619.5	675.5	662.3	665.4	697.9
45°	762.0	628.7	445.6	454.8	495.4	492.4	581.9	635.9	626.7	634.9	668.4
47.5°	723.3	592.1	432.4	377.5	461.8	460.8	540.2	597.2	592.1	600.2	635.9
50°	670.4	551.4	431.4	323.6	424.3	428.3	490.3	559.6	559.6	566.6	604.3
52.5°	602.3	501.6	391.7	293.0	380.5	392.7	446.6	527.0	529.0	536.2	569.7
55°	540.2	449.7	363.2	269.6	328.6	355.0	403.9	493.4	497.5	504.6	535.2
57.5°	483.3	374.4	357.1	242.2	280.8	306.2	366.2	460.8	462.9	469.0	498.5
60°	422.2	270.6	327.6	212.6	239.1	258.4	331.6	422.2	429.4	433.4	458.8
62.5°	353.0	196.4	297.1	192.3	218.8	222.8	303.1	385.5	394.7	397.8	413.0
65°	251.3	164.8	252.3	175.0	197.4	198.4	272.7	348.0	356.0	361.1	372.4
67.5°	169.9	134.3	192.3	158.7	181.1	182.1	243.2	304.2	315.4	319.5	326.6
70°	118.0	89.6	142.5	141.4	162.8	164.8	211.6	264.5	274.7	277.7	281.8
72.5°	86.5	72.2	118.0	127.2	143.5	145.5	179.0	219.8	229.9	233.0	235.0
75°	66.1	76.3	95.6	110.9	122.0	123.1	146.5	179.0	186.2	188.2	189.2
77.5°	52.9	71.2	70.2	89.6	99.7	97.6	115.0	138.4	144.5	144.5	144.5
80°	39.7	56.0	52.9	64.1	73.2	71.2	82.4	98.7	100.7	102.7	101.7
82.5°	29.5	35.6	35.6	40.7	48.8	46.8	54.9	64.1	64.1	64.1	66.1
85°	18.3	20.3	16.2	21.3	27.5	26.5	30.5	34.6	35.6	35.6	33.6
87.5°	11.2	9.2	5.1	8.2	12.2	12.2	14.2	15.2	14.2	14.2	14.2
90°	4.2	2.8	1.6	2.8	4.2	4.5	7.0	10.4	12.1	10.7	8.0
92.5°	28.0	17.1	6.3	17.1	28.0	30.6	43.0	59.6	67.9	59.5	42.7
95°	54.7	35.0	15.2	35.0	54.7	59.7	106.0	167.6	198.5	177.1	134.4
97.5°	61.1	43.7	26.3	43.7	61.1	65.5	142.7	245.6	297.1	283.6	256.6
100°	66.5	50.7	34.9	50.7	66.5	70.5	156.1	270.3	327.4	328.4	330.4
102.5°	71.7	57.0	42.2	57.0	71.7	75.4	162.2	278.0	336.0	353.2	387.6
105°	79.5	67.1	54.6	67.1	79.5	82.7	166.8	279.0	335.0	373.6	450.8
107.5°	90.6	78.9	67.3	78.9	90.6	93.5	167.6	266.6	316.0	369.8	477.5
110°	96.9	86.3	75.8	86.3	96.9	99.5	166.4	255.6	300.1	360.3	480.6

TEST NUMBER: P934422

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	104.3	94.2	84.2	94.2	104.3	106.8	166.4	245.9	285.7	347.3	470.4
115°	115.4	106.2	96.9	106.2	115.4	117.7	167.9	234.8	268.3	327.6	446.3
117.5°	126.3	117.9	109.5	117.9	126.3	128.4	171.1	228.0	256.5	310.0	417.0
120°	132.6	124.7	116.8	124.7	132.6	134.6	173.6	225.7	251.7	300.6	398.5
122.5°	139.9	132.0	124.0	132.0	139.9	141.9	177.3	224.5	248.0	292.1	380.2
125°	149.4	142.1	134.9	142.1	149.4	151.2	182.2	223.5	244.1	281.5	356.4
127.5°	158.5	151.2	143.8	151.2	158.5	160.3	187.1	222.9	240.8	272.9	337.1
130°	164.3	156.5	148.5	156.5	164.3	166.3	190.7	223.2	239.5	268.1	325.3
132.5°	169.2	161.4	153.5	161.4	169.2	171.2	193.7	223.5	238.4	264.0	315.2
135°	175.2	167.9	160.8	167.9	175.2	176.9	196.8	223.2	236.5	257.9	300.8
137.5°	182.5	175.3	168.2	175.3	182.5	184.3	201.6	224.6	236.2	254.3	290.5
140°	187.6	181.0	174.4	181.0	187.6	189.2	204.4	224.8	235.0	250.7	282.1
142.5°	191.3	185.3	179.2	185.3	191.3	192.8	206.9	225.6	235.0	248.8	276.3
145°	197.0	191.7	186.5	191.7	197.0	198.4	210.1	225.7	233.5	244.7	267.2
147.5°	204.0	199.0	193.8	199.0	204.0	205.4	214.8	227.2	233.5	242.3	260.0
150°	207.8	203.1	198.5	203.1	207.8	209.0	217.1	228.0	233.5	240.9	255.9
152.5°	210.5	207.0	203.4	207.0	210.5	211.4	218.8	228.5	233.5	239.9	252.6
155°	216.0	213.4	210.7	213.4	216.0	216.6	222.2	229.7	233.5	238.5	248.7
157.5°	221.2	218.7	216.1	218.7	221.2	221.8	225.7	230.8	233.5	237.4	245.3
160°	223.8	221.8	219.8	221.8	223.8	224.2	227.3	231.4	233.5	236.9	243.6
162.5°	226.4	224.9	223.5	224.9	226.4	226.8	229.0	232.0	233.5	236.3	242.0
165°	230.2	228.8	227.5	228.8	230.2	230.5	231.5	232.8	233.5	235.5	239.5
167.5°	232.3	231.7	231.1	231.7	232.3	232.5	233.3	234.5	235.0	236.4	239.1
170°	234.7	234.1	233.5	234.1	234.7	234.8	234.9	235.0	235.0	236.4	239.1
172.5°	235.0	234.8	234.7	234.8	235.0	235.0	235.0	235.0	235.0	236.1	238.2
175°	236.5	236.5	236.5	236.5	236.5	236.5	236.0	235.3	235.0	235.7	237.1
177.5°	236.5	236.5	236.5	236.5	236.5	236.5	236.1	235.6	235.4	235.9	237.0
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5

TEST NUMBER: P934422

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1037.7	1034.6	1038.7	1027.5	1038.7	1034.6	1037.7	1044.8	1038.7	1042.8	1046.9
5°	910.5	905.4	889.2	876.0	889.2	905.4	910.5	931.9	942.1	960.3	984.8
7.5°	813.9	809.8	805.7	797.6	805.7	809.8	813.9	820.0	830.1	846.5	864.8
10°	792.5	793.6	799.6	798.6	799.6	793.6	792.5	790.5	787.4	790.5	801.6
12.5°	847.5	856.6	890.2	888.1	890.2	856.6	847.5	806.7	779.3	774.2	776.2
15°	910.5	913.6	920.7	921.7	920.7	913.6	910.5	894.3	811.8	776.2	765.1
17.5°	916.6	917.7	922.8	922.8	922.8	917.7	916.6	909.5	882.0	834.2	771.2
20°	911.5	913.6	923.8	925.8	923.8	913.6	911.5	902.4	887.1	869.9	822.1
22.5°	909.5	913.6	921.7	920.7	921.7	913.6	909.5	895.3	882.0	869.9	850.5
25°	899.4	899.4	900.4	901.4	900.4	899.4	899.4	888.1	861.7	858.6	847.5
27.5°	878.0	880.0	886.1	885.1	886.1	880.0	878.0	873.9	845.4	842.4	834.2
30°	858.6	856.6	851.5	847.5	851.5	856.6	858.6	852.5	824.1	815.9	818.0
32.5°	826.1	821.0	815.9	812.9	815.9	821.0	826.1	824.1	802.7	791.5	793.6
35°	787.4	788.5	787.4	784.4	787.4	788.5	787.4	789.5	776.2	766.1	765.1
37.5°	760.0	762.0	761.0	756.9	761.0	762.0	760.0	757.9	739.6	736.6	738.6
40°	731.5	732.5	731.5	728.4	731.5	732.5	731.5	727.4	702.0	703.0	710.1
42.5°	704.0	703.0	699.9	697.9	699.9	703.0	704.0	697.9	665.4	662.3	675.5
45°	672.4	673.5	667.4	664.4	667.4	673.5	672.4	668.4	634.9	626.7	635.9
47.5°	640.9	640.9	635.9	632.8	635.9	640.9	640.9	635.9	600.2	592.1	597.2
50°	607.4	606.4	599.2	598.2	599.2	606.4	607.4	604.3	566.6	559.6	559.6
52.5°	568.7	568.7	569.7	571.7	569.7	568.7	568.7	569.7	536.2	529.0	527.0
55°	535.2	536.2	543.2	545.3	543.2	536.2	535.2	535.2	504.6	497.5	493.4
57.5°	500.5	500.5	505.7	505.7	505.7	500.5	500.5	498.5	469.0	462.9	460.8
60°	460.8	462.9	466.9	465.9	466.9	462.9	460.8	458.8	433.4	429.4	422.2
62.5°	419.1	421.2	422.2	420.2	422.2	421.2	419.1	413.0	397.8	394.7	385.5
65°	375.4	377.5	378.5	376.5	378.5	377.5	375.4	372.4	361.1	356.0	348.0
67.5°	330.6	329.6	328.6	332.6	328.6	329.6	330.6	326.6	319.5	315.4	304.2
70°	284.8	284.8	283.8	285.9	283.8	284.8	284.8	281.8	277.7	274.7	264.5
72.5°	236.0	235.0	239.1	236.0	239.1	235.0	236.0	235.0	233.0	229.9	219.8
75°	188.2	190.3	188.2	191.3	188.2	190.3	188.2	189.2	188.2	186.2	179.0
77.5°	143.5	145.5	143.5	143.5	143.5	145.5	143.5	144.5	144.5	144.5	138.4
80°	101.7	100.7	100.7	99.7	100.7	100.7	101.7	101.7	102.7	100.7	98.7
82.5°	65.1	64.1	64.1	66.1	64.1	64.1	65.1	66.1	64.1	64.1	64.1
85°	35.6	36.7	34.6	34.6	34.6	36.7	35.6	33.6	35.6	35.6	34.6
87.5°	13.2	12.2	12.2	12.2	12.2	12.2	13.2	14.2	14.2	14.2	15.2
90°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	10.7	12.1	10.4
92.5°	30.2	29.0	24.2	19.3	24.2	29.0	30.2	42.7	59.5	67.9	59.6
95°	102.3	98.7	84.2	69.7	84.2	98.7	102.3	134.4	177.1	198.5	167.6
97.5°	236.3	229.4	201.7	174.1	201.7	229.4	236.3	256.6	283.6	297.1	245.6
100°	331.9	323.6	290.7	257.7	290.7	323.6	331.9	330.4	328.4	327.4	270.3
102.5°	413.4	406.3	378.1	350.0	378.1	406.3	413.4	387.6	353.2	336.0	278.0
105°	508.7	504.9	489.7	474.6	489.7	504.9	508.7	450.8	373.6	335.0	279.0
107.5°	558.2	559.1	562.7	566.4	562.7	559.1	558.2	477.5	369.8	316.0	266.6
110°	570.9	574.8	590.6	606.4	590.6	574.8	570.9	480.6	360.3	300.1	255.6

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	562.8	568.9	593.1	617.4	593.1	568.9	562.8	470.4	347.3	285.7	245.9
115°	535.3	543.7	577.3	611.0	577.3	543.7	535.3	446.3	327.6	268.3	234.8
117.5°	497.3	506.7	544.0	581.4	544.0	506.7	497.3	417.0	310.0	256.5	228.0
120°	471.9	480.9	517.1	553.4	517.1	480.9	471.9	398.5	300.6	251.7	225.7
122.5°	446.3	455.2	491.0	526.8	491.0	455.2	446.3	380.2	292.1	248.0	224.5
125°	412.5	420.7	453.6	486.6	453.6	420.7	412.5	356.4	281.5	244.1	223.5
127.5°	385.3	392.2	420.0	447.8	420.0	392.2	385.3	337.1	272.9	240.8	222.9
130°	368.2	374.6	400.3	426.0	400.3	374.6	368.2	325.3	268.1	239.5	223.2
132.5°	353.6	359.4	382.3	405.3	382.3	359.4	353.6	315.2	264.0	238.4	223.5
135°	332.9	337.9	357.7	377.5	357.7	337.9	332.9	300.8	257.9	236.5	223.2
137.5°	317.7	321.8	338.0	354.2	338.0	321.8	317.7	290.5	254.3	236.2	224.6
140°	305.5	309.3	324.5	339.6	324.5	309.3	305.5	282.1	250.7	235.0	224.8
142.5°	296.9	300.1	313.2	326.3	313.2	300.1	296.9	276.3	248.8	235.0	225.6
145°	284.1	286.5	296.4	306.3	296.4	286.5	284.1	267.2	244.7	233.5	225.7
147.5°	273.3	275.4	283.5	291.7	283.5	275.4	273.3	260.0	242.3	233.5	227.2
150°	267.1	268.8	275.4	282.1	275.4	268.8	267.1	255.9	240.9	233.5	228.0
152.5°	262.2	263.4	268.4	273.4	268.4	263.4	262.2	252.6	239.9	233.5	228.5
155°	256.3	257.2	260.5	263.8	260.5	257.2	256.3	248.7	238.5	233.5	229.7
157.5°	251.3	251.9	254.2	256.5	254.2	251.9	251.3	245.3	237.4	233.5	230.8
160°	248.7	249.0	250.4	251.7	250.4	249.0	248.7	243.6	236.9	233.5	231.4
162.5°	246.3	246.6	247.9	249.2	247.9	246.6	246.3	242.0	236.3	233.5	232.0
165°	242.6	242.9	244.3	245.7	244.3	242.9	242.6	239.5	235.5	233.5	232.8
167.5°	241.1	241.2	241.8	242.3	241.8	241.2	241.1	239.1	236.4	235.0	234.5
170°	241.1	241.1	241.1	241.1	241.1	241.1	241.1	239.1	236.4	235.0	235.0
172.5°	239.8	239.6	239.2	238.7	239.2	239.6	239.8	238.2	236.1	235.0	235.0
175°	238.1	238.1	238.1	238.1	238.1	238.1	238.1	237.1	235.7	235.0	235.3
177.5°	237.8	237.6	237.1	236.5	237.1	237.6	237.8	237.0	235.9	235.4	235.6
180°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5

TEST NUMBER: P934422

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1062.1	1067.2	1070.2	1074.3	1084.5
5°	1021.4	1040.7	1046.9	1062.1	1080.5
7.5°	931.9	990.9	1007.2	1043.8	1072.3
10°	845.4	904.4	932.9	1019.4	1062.1
12.5°	801.6	836.3	855.6	976.7	1047.9
15°	774.2	798.6	812.9	919.7	1031.6
17.5°	752.8	770.2	780.3	863.7	1009.2
20°	739.6	747.7	756.9	823.1	983.8
22.5°	730.4	725.3	732.5	794.6	949.2
25°	724.3	705.0	713.2	772.2	908.5
27.5°	729.4	686.7	689.8	751.8	865.8
30°	730.4	664.4	665.4	730.4	818.0
32.5°	723.3	640.9	641.9	704.0	764.0
35°	706.0	613.5	612.5	673.5	690.8
37.5°	682.6	584.0	584.0	639.9	610.4
40°	654.2	554.5	557.5	596.1	539.2
42.5°	619.5	522.9	527.0	538.2	486.3
45°	581.9	492.4	495.4	454.8	445.6
47.5°	540.2	460.8	461.8	377.5	432.4
50°	490.3	428.3	424.3	323.6	431.4
52.5°	446.6	392.7	380.5	293.0	391.7
55°	403.9	355.0	328.6	269.6	363.2
57.5°	366.2	306.2	280.8	242.2	357.1
60°	331.6	258.4	239.1	212.6	327.6
62.5°	303.1	222.8	218.8	192.3	297.1
65°	272.7	198.4	197.4	175.0	252.3
67.5°	243.2	182.1	181.1	158.7	192.3
70°	211.6	164.8	162.8	141.4	142.5
72.5°	179.0	145.5	143.5	127.2	118.0
75°	146.5	123.1	122.0	110.9	95.6
77.5°	115.0	97.6	99.7	89.6	70.2
80°	82.4	71.2	73.2	64.1	52.9
82.5°	54.9	46.8	48.8	40.7	35.6
85°	30.5	26.5	27.5	21.3	16.2
87.5°	14.2	12.2	12.2	8.2	5.1
90°	7.0	4.5	4.2	2.8	1.6
92.5°	43.0	30.6	28.0	17.1	6.3
95°	106.0	59.7	54.7	35.0	15.2
97.5°	142.7	65.5	61.1	43.7	26.3
100°	156.1	70.5	66.5	50.7	34.9
102.5°	162.2	75.4	71.7	57.0	42.2
105°	166.8	82.7	79.5	67.1	54.6
107.5°	167.6	93.5	90.6	78.9	67.3
110°	166.4	99.5	96.9	86.3	75.8

TEST NUMBER: P934422

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	166.4	106.8	104.3	94.2	84.2
115°	167.9	117.7	115.4	106.2	96.9
117.5°	171.1	128.4	126.3	117.9	109.5
120°	173.6	134.6	132.6	124.7	116.8
122.5°	177.3	141.9	139.9	132.0	124.0
125°	182.2	151.2	149.4	142.1	134.9
127.5°	187.1	160.3	158.5	151.2	143.8
130°	190.7	166.3	164.3	156.5	148.5
132.5°	193.7	171.2	169.2	161.4	153.5
135°	196.8	176.9	175.2	167.9	160.8
137.5°	201.6	184.3	182.5	175.3	168.2
140°	204.4	189.2	187.6	181.0	174.4
142.5°	206.9	192.8	191.3	185.3	179.2
145°	210.1	198.4	197.0	191.7	186.5
147.5°	214.8	205.4	204.0	199.0	193.8
150°	217.1	209.0	207.8	203.1	198.5
152.5°	218.8	211.4	210.5	207.0	203.4
155°	222.2	216.6	216.0	213.4	210.7
157.5°	225.7	221.8	221.2	218.7	216.1
160°	227.3	224.2	223.8	221.8	219.8
162.5°	229.0	226.8	226.4	224.9	223.5
165°	231.5	230.5	230.2	228.8	227.5
167.5°	233.3	232.5	232.3	231.7	231.1
170°	234.9	234.8	234.7	234.1	233.5
172.5°	235.0	235.0	235.0	234.8	234.7
175°	236.0	236.5	236.5	236.5	236.5
177.5°	236.1	236.5	236.5	236.5	236.5
180°	236.5	236.5	236.5	236.5	236.5

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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	14.03	15.04	14.85	15.88	16.93	16.83	17.84	17.65	18.68	19.73
	3H	14.52	15.42	15.35	16.28	17.35	18.17	19.08	19.01	19.93	21.01
	4H	14.72	15.57	15.57	16.43	17.52	18.62	19.47	19.47	20.33	21.42
	6H	14.84	15.63	15.71	16.50	17.60	18.90	19.69	19.77	20.56	21.66
	8H	14.85	15.60	15.72	16.49	17.58	18.98	19.73	19.85	20.61	21.71
	12H	14.82	15.54	15.70	16.42	17.55	19.02	19.73	19.89	20.61	21.74
4H	2H	15.07	15.93	15.93	16.79	17.87	17.26	18.11	18.11	18.97	20.06
	3H	16.11	16.82	16.98	17.72	18.82	18.77	19.48	19.63	20.37	21.47
	4H	16.39	17.04	17.27	17.93	19.06	19.29	19.94	20.17	20.83	21.96
	6H	16.53	17.09	17.42	18.00	19.13	19.66	20.22	20.55	21.13	22.26
	8H	16.54	17.06	17.44	17.97	19.11	19.76	20.29	20.66	21.20	22.34
	12H	16.51	16.98	17.43	17.91	19.06	19.82	20.29	20.74	21.22	22.37
8H	4H	16.85	17.38	17.75	18.29	19.43	19.43	19.95	20.33	20.86	22.01
	6H	17.12	17.56	18.05	18.51	19.65	19.86	20.30	20.79	21.25	22.39
	8H	17.17	17.55	18.10	18.49	19.65	20.01	20.40	20.95	21.34	22.50
	12H	17.16	17.50	18.10	18.43	19.64	20.11	20.45	21.05	21.39	22.60
12H	4H	16.87	17.34	17.78	18.27	19.42	19.40	19.87	20.32	20.80	21.95
	6H	17.18	17.57	18.12	18.51	19.67	19.86	20.25	20.80	21.19	22.35
	8H	17.26	17.59	18.19	18.53	19.74	20.03	20.36	20.96	21.30	22.51

END OF REPORT