

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: P934398

Luminaire Tested: SQ4-FA-050U-075D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934398
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

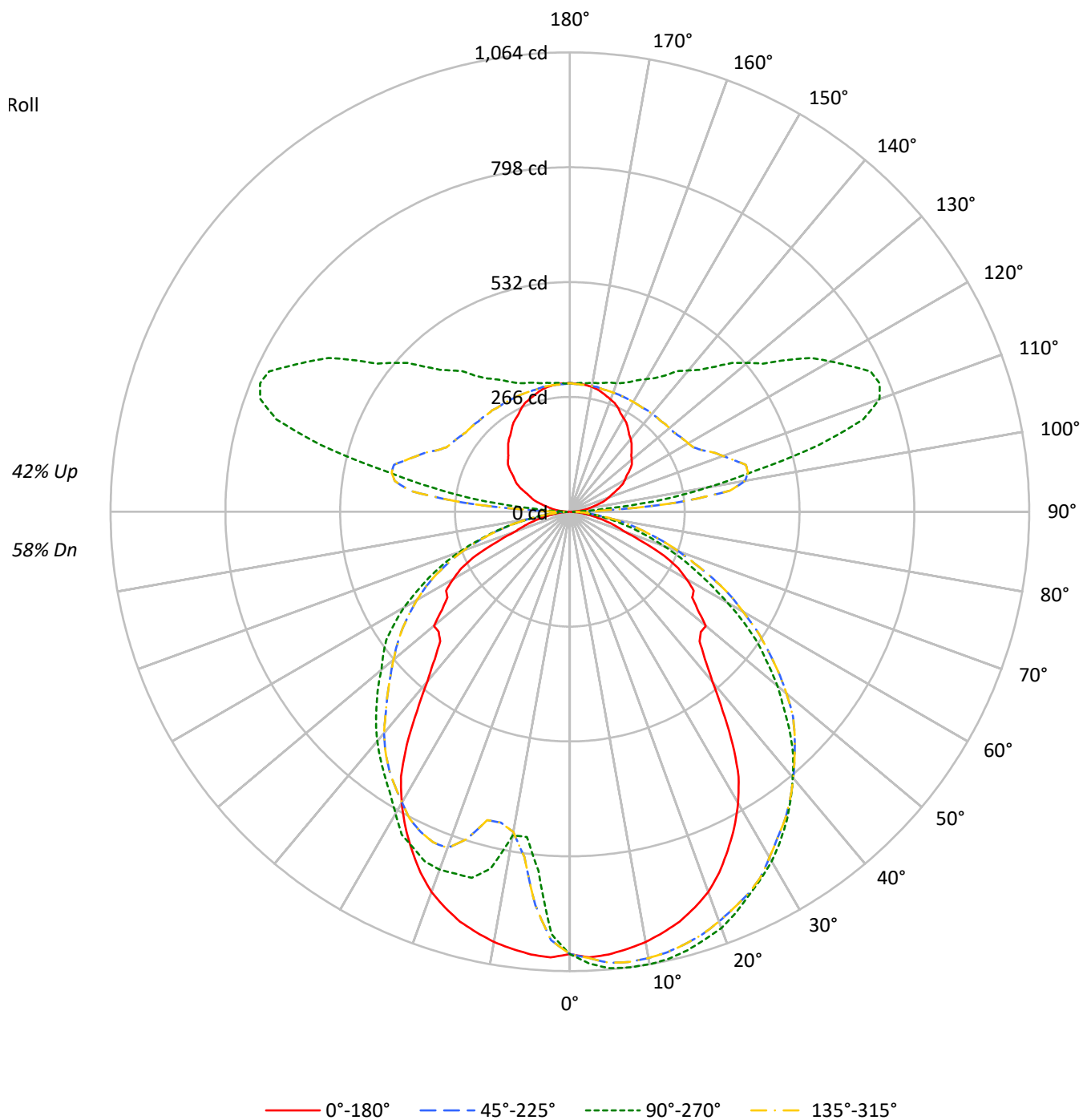
Lumens per Lamp: N/A
Luminaire Lumens: 4586.2 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9505	9505	9505	9505
5°	9566	9595	9566	7545
10°	9491	9453	9491	6758
15°	9378	9248	9378	7721
20°	9170	9004	9170	7737
25°	8758	8650	8758	7573
30°	8230	8357	8230	7214
35°	7325	7985	7325	6818
40°	6095	7548	6095	6519
45°	5435	7036	5435	6176
50°	5762	6425	5762	5831
55°	5405	5768	5405	5631
60°	5550	4899	5550	5158
65°	5008	4048	5008	4526
70°	3445	3227	3445	3794
75°	2987	2384	2987	2856
80°	2359	1577	2359	1718
85°	1283	836	1283	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.0
10°-20°	262.5	5.7
20°-30°	405.8	8.8
30°-40°	484.5	10.6
40°-50°	487.3	10.6
50°-60°	424.0	9.2
60°-70°	300.6	6.6
70°-80°	159.0	3.5
80°-90°	40.7	0.9
90°-100°	145.0	3.2
100°-110°	381.4	8.3
110°-120°	395.4	8.6
120°-130°	317.2	6.9
130°-140°	248.9	5.4
140°-150°	191.0	4.2
150°-160°	137.6	3.0
160°-170°	84.2	1.8
170°-180°	28.4	0.6
0°-30°	760.8	16.6
0°-40°	1245.3	27.2
0°-60°	2156.7	47.0
0°-90°	2657.1	57.9
90°-120°	921.8	20.1
90°-150°	1678.9	36.6
90°-180°	1929.0	42.1
0°-180°	4586.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1024	1024	1024	1024	1024	
5°	1029	1061	1029	834	1029	98
15°	983	1052	983	878	983	276
25°	865	981	865	859	865	397
35°	658	875	658	747	658	407
45°	424	721	424	633	424	340
55°	346	532	346	520	346	318
65°	240	321	240	359	240	230
75°	91	152	91	182	91	96
85°	16	39	16	33	16	21
90°	2	8	2	8	2	2
95°	19	88	19	88	19	21
105°	69	597	69	597	69	73
115°	122	769	122	769	122	120
125°	170	612	170	612	170	151
135°	202	475	202	475	202	157
145°	235	386	235	386	235	147
155°	265	332	265	332	265	122
165°	286	309	286	309	286	81
175°	298	300	298	300	298	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1033.1	1033.1	1039.0	1040.9	1040.9	1038.0	1035.1	1038.0	1046.7	1049.6	1048.7
5°	1029.2	1037.0	1047.7	1049.6	1051.6	1050.6	1048.7	1050.6	1060.3	1062.2	1063.2
7.5°	1021.4	1036.1	1049.6	1052.5	1055.4	1052.5	1051.6	1053.5	1063.2	1065.1	1065.1
10°	1011.7	1032.1	1047.7	1049.6	1052.5	1049.6	1049.6	1053.5	1063.2	1065.1	1066.1
12.5°	998.2	1026.3	1040.9	1042.8	1046.7	1045.7	1044.8	1048.7	1058.3	1060.3	1060.3
15°	982.7	1015.6	1029.2	1031.1	1038.0	1036.1	1036.1	1039.9	1050.6	1053.5	1052.5
17.5°	961.3	1002.0	1017.5	1020.5	1025.3	1024.3	1025.3	1029.2	1039.0	1040.9	1041.9
20°	937.1	983.6	1002.0	1004.9	1009.8	1009.8	1009.8	1014.6	1024.3	1028.2	1028.2
22.5°	904.2	964.3	983.6	985.6	991.4	991.4	993.3	1000.1	1008.8	1009.8	1009.8
25°	865.4	942.9	959.4	965.2	971.0	973.9	976.8	980.7	983.6	982.7	983.6
27.5°	824.7	915.8	937.1	941.0	948.7	951.7	955.5	956.5	957.5	960.4	958.4
30°	779.2	878.0	910.0	913.9	926.5	928.4	924.5	926.5	931.3	933.2	935.2
32.5°	727.8	821.8	881.9	890.6	902.2	896.4	895.5	898.4	906.1	906.1	908.0
35°	658.0	778.2	855.7	863.5	872.2	865.4	869.3	870.3	875.1	878.0	877.0
37.5°	581.5	740.4	828.6	834.4	841.2	832.5	838.3	841.2	845.1	843.1	843.1
40°	513.7	681.3	796.6	800.5	806.3	799.5	805.3	807.3	809.2	807.3	806.3
42.5°	463.3	616.4	762.7	767.5	763.7	768.5	770.5	774.3	771.4	767.5	767.5
45°	424.5	598.9	725.9	731.7	725.9	733.6	736.5	736.5	727.8	725.9	724.9
47.5°	411.9	564.1	689.1	689.1	686.1	695.8	700.7	693.9	685.2	682.3	682.3
50°	411.0	525.3	638.7	634.8	648.4	660.0	655.1	648.4	641.6	630.9	630.9
52.5°	373.2	477.8	573.7	588.3	609.6	616.4	608.6	601.8	590.2	585.4	581.5
55°	346.0	428.4	514.6	543.7	566.0	574.7	560.2	553.4	536.0	533.0	531.1
57.5°	340.1	356.7	460.4	497.2	524.3	523.4	514.6	502.0	487.5	484.6	483.6
60°	312.0	257.8	402.2	445.8	473.9	471.0	463.3	451.7	438.1	436.1	434.2
62.5°	282.9	187.0	336.2	385.8	425.5	424.5	417.7	400.3	390.6	385.8	381.9
65°	240.3	157.0	239.3	320.7	378.0	379.9	365.4	352.8	342.1	336.2	335.3
67.5°	183.1	127.9	161.8	267.4	332.4	330.4	312.0	306.2	292.6	289.7	283.9
70°	135.7	85.3	112.4	217.1	287.8	282.9	268.4	261.6	249.0	242.2	238.4
72.5°	112.4	68.8	82.4	168.6	242.2	236.4	223.8	216.1	205.4	199.6	195.7
75°	91.1	72.7	63.0	125.0	196.7	192.8	181.2	173.5	164.7	157.0	157.9
77.5°	66.9	67.8	50.4	92.1	156.0	150.2	143.4	133.7	129.8	122.1	122.1
80°	50.4	53.3	37.8	63.0	112.4	112.4	106.6	99.8	93.0	89.1	89.1
82.5°	33.9	33.9	28.1	39.7	76.6	73.6	69.8	67.8	64.0	62.0	62.0
85°	15.5	19.4	17.4	24.2	41.7	43.6	43.6	41.7	40.7	38.8	39.7
87.5°	4.8	8.7	10.7	13.6	21.3	22.3	23.3	23.3	23.3	24.2	24.2
90°	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1	7.6	7.6
92.5°	7.9	21.5	35.2	38.6	54.2	75.0	85.5	74.9	53.8	38.0	36.4
95°	19.2	44.0	68.9	75.1	133.3	211.0	249.8	222.9	169.1	128.8	124.2
97.5°	33.1	55.0	76.9	82.5	179.6	309.1	373.8	356.9	322.9	297.4	288.7
100°	43.9	63.8	83.7	88.7	196.4	340.1	412.0	413.3	415.8	417.6	407.3
102.5°	53.1	71.7	90.2	94.9	204.2	349.9	422.8	444.5	487.8	520.3	511.3
105°	68.7	84.4	100.1	104.1	209.9	351.1	421.6	470.2	567.3	640.1	635.4
107.5°	84.7	99.3	114.0	117.6	211.0	335.5	397.7	465.4	600.9	702.4	703.6
110°	95.4	108.6	121.9	125.2	209.4	321.6	377.7	453.4	604.8	718.4	723.4

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.0	118.6	131.2	134.4	209.4	309.5	359.5	437.0	592.0	708.2	715.9
115°	122.0	133.6	145.3	148.2	211.3	295.5	337.7	412.3	561.6	673.6	684.2
117.5°	137.8	148.4	158.9	161.5	215.3	286.9	322.8	390.1	524.8	625.9	637.6
120°	147.0	157.0	166.9	169.4	218.5	284.0	316.8	378.3	501.5	593.8	605.2
122.5°	156.0	166.1	176.1	178.6	223.1	282.5	312.1	367.5	478.5	561.6	572.9
125°	169.8	178.9	188.0	190.3	229.3	281.2	307.2	354.3	448.5	519.1	529.5
127.5°	180.9	190.2	199.4	201.7	235.5	280.5	303.0	343.4	424.2	484.9	493.6
130°	186.9	196.9	206.8	209.3	240.0	280.9	301.4	337.4	409.4	463.4	471.4
132.5°	193.1	203.1	213.0	215.5	243.7	281.2	300.0	332.2	396.6	445.0	452.2
135°	202.3	211.3	220.4	222.7	247.7	280.9	297.6	324.5	378.5	419.0	425.2
137.5°	211.7	220.6	229.7	231.9	253.7	282.7	297.2	320.0	365.6	399.8	404.9
140°	219.5	227.7	236.0	238.1	257.3	282.9	295.7	315.5	354.9	384.5	389.2
142.5°	225.5	233.1	240.7	242.6	260.4	283.9	295.7	313.1	347.7	373.6	377.7
145°	234.7	241.3	248.0	249.6	264.3	284.0	293.8	307.9	336.2	357.5	360.6
147.5°	243.9	250.4	256.8	258.4	270.3	286.0	293.8	304.9	327.2	343.9	346.5
150°	249.8	255.6	261.5	263.0	273.3	286.9	293.8	303.2	322.0	336.1	338.3
152.5°	256.0	260.5	264.9	266.0	275.3	287.6	293.8	301.8	317.9	329.9	331.5
155°	265.2	268.5	271.8	272.6	279.7	289.1	293.8	300.2	313.0	322.6	323.6
157.5°	272.0	275.2	278.4	279.2	284.0	290.5	293.8	298.7	308.7	316.2	317.0
160°	276.6	279.1	281.6	282.2	286.0	291.2	293.8	298.1	306.6	313.0	313.4
162.5°	281.2	283.0	284.9	285.4	288.2	292.0	293.8	297.4	304.6	310.0	310.4
165°	286.2	287.9	289.6	290.0	291.3	292.9	293.8	296.3	301.5	305.3	305.7
167.5°	290.8	291.6	292.3	292.5	293.6	295.1	295.7	297.5	300.9	303.4	303.6
170°	293.8	294.6	295.4	295.5	295.6	295.7	295.7	297.5	300.9	303.4	303.4
172.5°	295.4	295.5	295.7	295.7	295.7	295.7	295.7	297.1	299.7	301.7	301.6
175°	297.6	297.6	297.6	297.6	297.0	296.1	295.7	296.6	298.4	299.6	299.6
177.5°	297.6	297.6	297.6	297.6	297.1	296.5	296.2	296.9	298.3	299.2	299.0
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1050.6	1047.7	1050.6	1048.7	1049.6	1046.7	1038.0	1035.1	1038.0	1040.9	1040.9
5°	1063.2	1061.2	1063.2	1063.2	1062.2	1060.3	1050.6	1048.7	1050.6	1051.6	1049.6
7.5°	1067.1	1064.2	1067.1	1065.1	1065.1	1063.2	1053.5	1051.6	1052.5	1055.4	1052.5
10°	1067.1	1064.2	1067.1	1066.1	1065.1	1063.2	1053.5	1049.6	1049.6	1052.5	1049.6
12.5°	1062.2	1060.3	1062.2	1060.3	1060.3	1058.3	1048.7	1044.8	1045.7	1046.7	1042.8
15°	1054.5	1051.6	1054.5	1052.5	1053.5	1050.6	1039.9	1036.1	1036.1	1038.0	1031.1
17.5°	1042.8	1039.0	1042.8	1041.9	1040.9	1039.0	1029.2	1025.3	1024.3	1025.3	1020.5
20°	1029.2	1026.3	1029.2	1028.2	1028.2	1024.3	1014.6	1009.8	1009.8	1009.8	1004.9
22.5°	1007.9	1004.9	1007.9	1009.8	1009.8	1008.8	1000.1	993.3	991.4	991.4	985.6
25°	983.6	980.7	983.6	983.6	982.7	983.6	980.7	976.8	973.9	971.0	965.2
27.5°	960.4	958.4	960.4	958.4	960.4	957.5	956.5	955.5	951.7	948.7	941.0
30°	937.1	935.2	937.1	935.2	933.2	931.3	926.5	924.5	928.4	926.5	913.9
32.5°	908.0	906.1	908.0	908.0	906.1	906.1	898.4	895.5	896.4	902.2	890.6
35°	878.0	875.1	878.0	877.0	878.0	875.1	870.3	869.3	865.4	872.2	863.5
37.5°	843.1	840.2	843.1	843.1	843.1	845.1	841.2	838.3	832.5	841.2	834.4
40°	807.3	803.4	807.3	806.3	807.3	809.2	807.3	805.3	799.5	806.3	800.5
42.5°	766.6	765.6	766.6	767.5	767.5	771.4	774.3	770.5	768.5	763.7	767.5
45°	723.0	721.0	723.0	724.9	725.9	727.8	736.5	736.5	733.6	725.9	731.7
47.5°	676.5	671.6	676.5	682.3	682.3	685.2	693.9	700.7	695.8	686.1	689.1
50°	627.0	628.0	627.0	630.9	630.9	641.6	648.4	655.1	660.0	648.4	634.8
52.5°	578.6	577.6	578.6	581.5	585.4	590.2	601.8	608.6	616.4	609.6	588.3
55°	530.1	532.1	530.1	531.1	533.0	536.0	553.4	560.2	574.7	566.0	543.7
57.5°	481.7	478.8	481.7	483.6	484.6	487.5	502.0	514.6	523.4	524.3	497.2
60°	425.5	421.6	425.5	434.2	436.1	438.1	451.7	463.3	471.0	473.9	445.8
62.5°	376.1	369.3	376.1	381.9	385.8	390.6	400.3	417.7	424.5	425.5	385.8
65°	323.6	320.7	323.6	335.3	336.2	342.1	352.8	365.4	379.9	378.0	320.7
67.5°	276.2	276.2	276.2	283.9	289.7	292.6	306.2	312.0	330.4	332.4	267.4
70°	232.6	231.6	232.6	238.4	242.2	249.0	261.6	268.4	282.9	287.8	217.1
72.5°	190.9	189.9	190.9	195.7	199.6	205.4	216.1	223.8	236.4	242.2	168.6
75°	154.1	152.1	154.1	157.9	157.0	164.7	173.5	181.2	192.8	196.7	125.0
77.5°	118.2	118.2	118.2	122.1	122.1	129.8	133.7	143.4	150.2	156.0	92.1
80°	88.2	87.2	88.2	89.1	89.1	93.0	99.8	106.6	112.4	112.4	63.0
82.5°	62.0	60.1	62.0	62.0	62.0	64.0	67.8	69.8	73.6	76.6	39.7
85°	38.8	38.8	38.8	39.7	38.8	40.7	41.7	43.6	43.6	41.7	24.2
87.5°	25.2	24.2	25.2	24.2	24.2	23.3	23.3	23.3	22.3	21.3	13.6
90°	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1	8.8	5.6
92.5°	30.4	24.3	30.4	36.4	38.0	53.8	74.9	85.5	75.0	54.2	38.6
95°	105.9	87.7	105.9	124.2	128.8	169.1	222.9	249.8	211.0	133.3	75.1
97.5°	253.9	219.1	253.9	288.7	297.4	322.9	356.9	373.8	309.1	179.6	82.5
100°	365.8	324.3	365.8	407.3	417.6	415.8	413.3	412.0	340.1	196.4	88.7
102.5°	475.9	440.4	475.9	511.3	520.3	487.8	444.5	422.8	349.9	204.2	94.9
105°	616.3	597.2	616.3	635.4	640.1	567.3	470.2	421.6	351.1	209.9	104.1
107.5°	708.1	712.8	708.1	703.6	702.4	600.9	465.4	397.7	335.5	211.0	117.6
110°	743.2	763.1	743.2	723.4	718.4	604.8	453.4	377.7	321.6	209.4	125.2

TEST NUMBER: P934398

CATALOG NUMBER: SQ4-FA-050U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	746.4	776.9	746.4	715.9	708.2	592.0	437.0	359.5	309.5	209.4	134.4
115°	726.6	768.9	726.6	684.2	673.6	561.6	412.3	337.7	295.5	211.3	148.2
117.5°	684.6	731.6	684.6	637.6	625.9	524.8	390.1	322.8	286.9	215.3	161.5
120°	650.8	696.4	650.8	605.2	593.8	501.5	378.3	316.8	284.0	218.5	169.4
122.5°	617.9	662.9	617.9	572.9	561.6	478.5	367.5	312.1	282.5	223.1	178.6
125°	570.8	612.3	570.8	529.5	519.1	448.5	354.3	307.2	281.2	229.3	190.3
127.5°	528.6	563.6	528.6	493.6	484.9	424.2	343.4	303.0	280.5	235.5	201.7
130°	503.8	536.1	503.8	471.4	463.4	409.4	337.4	301.4	280.9	240.0	209.3
132.5°	481.1	510.1	481.1	452.2	445.0	396.6	332.2	300.0	281.2	243.7	215.5
135°	450.2	475.1	450.2	425.2	419.0	378.5	324.5	297.6	280.9	247.7	222.7
137.5°	425.3	445.7	425.3	404.9	399.8	365.6	320.0	297.2	282.7	253.7	231.9
140°	408.3	427.4	408.3	389.2	384.5	354.9	315.5	295.7	282.9	257.3	238.1
142.5°	394.2	410.7	394.2	377.7	373.6	347.7	313.1	295.7	283.9	260.4	242.6
145°	373.1	385.5	373.1	360.6	357.5	336.2	307.9	293.8	284.0	264.3	249.6
147.5°	356.8	367.1	356.8	346.5	343.9	327.2	304.9	293.8	286.0	270.3	258.4
150°	346.6	354.9	346.6	338.3	336.1	322.0	303.2	293.8	286.9	273.3	263.0
152.5°	337.8	344.1	337.8	331.5	329.9	317.9	301.8	293.8	287.6	275.3	266.0
155°	327.8	332.0	327.8	323.6	322.6	313.0	300.2	293.8	289.1	279.7	272.6
157.5°	319.9	322.8	319.9	317.0	316.2	308.7	298.7	293.8	290.5	284.0	279.2
160°	315.1	316.8	315.1	313.4	313.0	306.6	298.1	293.8	291.2	286.0	282.2
162.5°	312.0	313.6	312.0	310.4	310.0	304.6	297.4	293.8	292.0	288.2	285.4
165°	307.5	309.2	307.5	305.7	305.3	301.5	296.3	293.8	292.9	291.3	290.0
167.5°	304.3	304.9	304.3	303.6	303.4	300.9	297.5	295.7	295.1	293.6	292.5
170°	303.4	303.4	303.4	303.4	303.4	300.9	297.5	295.7	295.7	295.6	295.5
172.5°	301.0	300.4	301.0	301.6	301.7	299.7	297.1	295.7	295.7	295.7	295.7
175°	299.6	299.6	299.6	299.6	299.6	298.4	296.6	295.7	296.1	297.0	297.6
177.5°	298.4	297.6	298.4	299.0	299.2	298.3	296.9	296.2	296.5	297.1	297.6
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6

TEST NUMBER: P934398

CATALOG NUMBER: SQ4-FA-050U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1039.0	1033.1	1033.1	1023.4	1019.5	1016.6	1011.7	997.2	993.3	989.4	995.3
5°	1047.7	1037.0	1029.2	1011.7	997.2	991.4	973.0	938.1	914.8	897.4	887.7
7.5°	1049.6	1036.1	1021.4	994.3	959.4	943.9	887.7	823.7	806.3	790.8	781.1
10°	1047.7	1032.1	1011.7	971.0	888.7	861.5	805.3	763.7	753.0	750.1	753.0
12.5°	1040.9	1026.3	998.2	930.3	815.0	796.6	763.7	739.4	737.5	742.4	768.5
15°	1029.2	1015.6	982.7	876.1	774.3	760.8	737.5	728.8	739.4	773.4	851.8
17.5°	1017.5	1002.0	961.3	822.8	743.3	733.6	717.2	734.6	794.7	840.2	866.4
20°	1002.0	983.6	937.1	784.0	721.0	712.3	704.6	783.0	828.6	845.1	859.6
22.5°	983.6	964.3	904.2	756.9	697.8	691.0	695.8	810.2	828.6	840.2	852.8
25°	959.4	942.9	865.4	735.6	679.4	671.6	690.0	807.3	817.9	820.8	846.0
27.5°	937.1	915.8	824.7	716.2	657.1	654.2	694.9	794.7	802.4	805.3	832.5
30°	910.0	878.0	779.2	695.8	633.8	632.9	695.8	779.2	777.2	785.0	812.1
32.5°	881.9	821.8	727.8	670.6	611.5	610.6	689.1	755.9	754.0	764.6	785.0
35°	855.7	778.2	658.0	641.6	583.4	584.4	672.6	728.8	729.8	739.4	752.0
37.5°	828.6	740.4	581.5	609.6	556.3	556.3	650.3	703.6	701.7	704.6	722.0
40°	796.6	681.3	513.7	567.9	531.1	528.2	623.2	676.5	669.7	668.7	692.9
42.5°	762.7	616.4	463.3	512.7	502.0	498.2	590.2	643.5	630.9	633.8	664.8
45°	725.9	598.9	424.5	433.2	472.0	469.1	554.4	605.7	597.0	604.8	636.7
47.5°	689.1	564.1	411.9	359.6	440.0	439.1	514.6	568.9	564.1	571.8	605.7
50°	638.7	525.3	411.0	308.1	404.2	408.0	467.2	533.0	533.0	539.8	575.7
52.5°	573.7	477.8	373.2	279.1	362.5	374.1	425.5	502.0	504.0	510.8	542.7
55°	514.6	428.4	346.0	256.8	313.0	338.2	384.8	470.1	473.9	480.7	509.8
57.5°	460.4	356.7	340.1	230.6	267.4	291.7	348.9	439.1	441.0	446.8	474.9
60°	402.2	257.8	312.0	202.5	227.7	246.1	315.9	402.2	409.0	412.9	437.1
62.5°	336.2	187.0	282.9	183.1	208.3	212.2	288.8	367.3	376.1	379.0	393.5
65°	239.3	157.0	240.3	166.7	188.0	189.0	259.7	331.4	339.2	344.0	354.8
67.5°	161.8	127.9	183.1	151.2	172.5	173.5	231.6	289.7	300.4	304.3	311.0
70°	112.4	85.3	135.7	134.7	155.0	157.0	201.6	251.9	261.6	264.5	268.4
72.5°	82.4	68.8	112.4	121.1	136.6	138.6	170.5	209.3	219.0	221.9	223.8
75°	63.0	72.7	91.1	105.6	116.3	117.2	139.5	170.5	177.3	179.3	180.2
77.5°	50.4	67.8	66.9	85.3	95.0	93.0	109.5	131.8	137.6	137.6	137.6
80°	37.8	53.3	50.4	61.0	69.8	67.8	78.5	94.0	95.9	97.9	96.9
82.5°	28.1	33.9	33.9	38.8	46.5	44.6	52.3	61.0	61.0	61.0	63.0
85°	17.4	19.4	15.5	20.3	26.2	25.2	29.1	32.9	33.9	33.9	32.0
87.5°	10.7	8.7	4.8	7.8	11.6	11.6	13.6	14.5	13.6	13.6	13.6
90°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1
92.5°	35.2	21.5	7.9	21.5	35.2	38.6	54.2	75.0	85.5	74.9	53.8
95°	68.9	44.0	19.2	44.0	68.9	75.1	133.3	211.0	249.8	222.9	169.1
97.5°	76.9	55.0	33.1	55.0	76.9	82.5	179.6	309.1	373.8	356.9	322.9
100°	83.7	63.8	43.9	63.8	83.7	88.7	196.4	340.1	412.0	413.3	415.8
102.5°	90.2	71.7	53.1	71.7	90.2	94.9	204.2	349.9	422.8	444.5	487.8
105°	100.1	84.4	68.7	84.4	100.1	104.1	209.9	351.1	421.6	470.2	567.3
107.5°	114.0	99.3	84.7	99.3	114.0	117.6	211.0	335.5	397.7	465.4	600.9
110°	121.9	108.6	95.4	108.6	121.9	125.2	209.4	321.6	377.7	453.4	604.8

TEST NUMBER: P934398

CATALOG NUMBER: SQ4-FA-050U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.2	118.6	106.0	118.6	131.2	134.4	209.4	309.5	359.5	437.0	592.0
115°	145.3	133.6	122.0	133.6	145.3	148.2	211.3	295.5	337.7	412.3	561.6
117.5°	158.9	148.4	137.8	148.4	158.9	161.5	215.3	286.9	322.8	390.1	524.8
120°	166.9	157.0	147.0	157.0	166.9	169.4	218.5	284.0	316.8	378.3	501.5
122.5°	176.1	166.1	156.0	166.1	176.1	178.6	223.1	282.5	312.1	367.5	478.5
125°	188.0	178.9	169.8	178.9	188.0	190.3	229.3	281.2	307.2	354.3	448.5
127.5°	199.4	190.2	180.9	190.2	199.4	201.7	235.5	280.5	303.0	343.4	424.2
130°	206.8	196.9	186.9	196.9	206.8	209.3	240.0	280.9	301.4	337.4	409.4
132.5°	213.0	203.1	193.1	203.1	213.0	215.5	243.7	281.2	300.0	332.2	396.6
135°	220.4	211.3	202.3	211.3	220.4	222.7	247.7	280.9	297.6	324.5	378.5
137.5°	229.7	220.6	211.7	220.6	229.7	231.9	253.7	282.7	297.2	320.0	365.6
140°	236.0	227.7	219.5	227.7	236.0	238.1	257.3	282.9	295.7	315.5	354.9
142.5°	240.7	233.1	225.5	233.1	240.7	242.6	260.4	283.9	295.7	313.1	347.7
145°	248.0	241.3	234.7	241.3	248.0	249.6	264.3	284.0	293.8	307.9	336.2
147.5°	256.8	250.4	243.9	250.4	256.8	258.4	270.3	286.0	293.8	304.9	327.2
150°	261.5	255.6	249.8	255.6	261.5	263.0	273.3	286.9	293.8	303.2	322.0
152.5°	264.9	260.5	256.0	260.5	264.9	266.0	275.3	287.6	293.8	301.8	317.9
155°	271.8	268.5	265.2	268.5	271.8	272.6	279.7	289.1	293.8	300.2	313.0
157.5°	278.4	275.2	272.0	275.2	278.4	279.2	284.0	290.5	293.8	298.7	308.7
160°	281.6	279.1	276.6	279.1	281.6	282.2	286.0	291.2	293.8	298.1	306.6
162.5°	284.9	283.0	281.2	283.0	284.9	285.4	288.2	292.0	293.8	297.4	304.6
165°	289.6	287.9	286.2	287.9	289.6	290.0	291.3	292.9	293.8	296.3	301.5
167.5°	292.3	291.6	290.8	291.6	292.3	292.5	293.6	295.1	295.7	297.5	300.9
170°	295.4	294.6	293.8	294.6	295.4	295.5	295.6	295.7	295.7	297.5	300.9
172.5°	295.7	295.5	295.4	295.5	295.7	295.7	295.7	295.7	295.7	297.1	299.7
175°	297.6	297.6	297.6	297.6	297.6	297.6	297.0	296.1	295.7	296.6	298.4
177.5°	297.6	297.6	297.6	297.6	297.6	297.6	297.1	296.5	296.2	296.9	298.3
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6

TEST NUMBER: P934398

CATALOG NUMBER: SQ4-FA-050U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	988.5	985.6	989.4	978.8	989.4	985.6	988.5	995.3	989.4	993.3	997.2
5°	867.4	862.5	847.0	834.4	847.0	862.5	867.4	887.7	897.4	914.8	938.1
7.5°	775.3	771.4	767.5	759.8	767.5	771.4	775.3	781.1	790.8	806.3	823.7
10°	754.9	755.9	761.7	760.8	761.7	755.9	754.9	753.0	750.1	753.0	763.7
12.5°	807.3	816.0	848.0	846.0	848.0	816.0	807.3	768.5	742.4	737.5	739.4
15°	867.4	870.3	877.0	878.0	877.0	870.3	867.4	851.8	773.4	739.4	728.8
17.5°	873.2	874.1	879.0	879.0	879.0	874.1	873.2	866.4	840.2	794.7	734.6
20°	868.3	870.3	879.9	881.9	879.9	870.3	868.3	859.6	845.1	828.6	783.0
22.5°	866.4	870.3	878.0	877.0	878.0	870.3	866.4	852.8	840.2	828.6	810.2
25°	856.7	856.7	857.7	858.6	857.7	856.7	856.7	846.0	820.8	817.9	807.3
27.5°	836.3	838.3	844.1	843.1	844.1	838.3	836.3	832.5	805.3	802.4	794.7
30°	817.9	816.0	811.1	807.3	811.1	816.0	817.9	812.1	785.0	777.2	779.2
32.5°	786.9	782.1	777.2	774.3	777.2	782.1	786.9	785.0	764.6	754.0	755.9
35°	750.1	751.1	750.1	747.2	750.1	751.1	750.1	752.0	739.4	729.8	728.8
37.5°	723.9	725.9	724.9	721.0	724.9	725.9	723.9	722.0	704.6	701.7	703.6
40°	696.8	697.8	696.8	693.9	696.8	697.8	696.8	692.9	668.7	669.7	676.5
42.5°	670.6	669.7	666.8	664.8	666.8	669.7	670.6	664.8	633.8	630.9	643.5
45°	640.6	641.6	635.8	632.9	635.8	641.6	640.6	636.7	604.8	597.0	605.7
47.5°	610.6	610.6	605.7	602.8	605.7	610.6	610.6	605.7	571.8	564.1	568.9
50°	578.6	577.6	570.8	569.9	570.8	577.6	578.6	575.7	539.8	533.0	533.0
52.5°	541.8	541.8	542.7	544.7	542.7	541.8	541.8	542.7	510.8	504.0	502.0
55°	509.8	510.8	517.5	519.5	517.5	510.8	509.8	509.8	480.7	473.9	470.1
57.5°	476.8	476.8	481.7	481.7	481.7	476.8	476.8	474.9	446.8	441.0	439.1
60°	439.1	441.0	444.9	443.9	444.9	441.0	439.1	437.1	412.9	409.0	402.2
62.5°	399.3	401.3	402.2	400.3	402.2	401.3	399.3	393.5	379.0	376.1	367.3
65°	357.7	359.6	360.6	358.6	360.6	359.6	357.7	354.8	344.0	339.2	331.4
67.5°	314.9	314.0	313.0	316.9	313.0	314.0	314.9	311.0	304.3	300.4	289.7
70°	271.3	271.3	270.4	272.3	270.4	271.3	271.3	268.4	264.5	261.6	251.9
72.5°	224.8	223.8	227.7	224.8	227.7	223.8	224.8	223.8	221.9	219.0	209.3
75°	179.3	181.2	179.3	182.2	179.3	181.2	179.3	180.2	179.3	177.3	170.5
77.5°	136.6	138.6	136.6	136.6	136.6	138.6	136.6	137.6	137.6	137.6	131.8
80°	96.9	95.9	95.9	95.0	95.9	95.9	96.9	96.9	97.9	95.9	94.0
82.5°	62.0	61.0	61.0	63.0	61.0	61.0	62.0	63.0	61.0	61.0	61.0
85°	33.9	34.9	32.9	32.9	32.9	34.9	33.9	32.0	33.9	33.9	32.9
87.5°	12.6	11.6	11.6	11.6	11.6	11.6	12.6	13.6	13.6	13.6	14.5
90°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1
92.5°	38.0	36.4	30.4	24.3	30.4	36.4	38.0	53.8	74.9	85.5	75.0
95°	128.8	124.2	105.9	87.7	105.9	124.2	128.8	169.1	222.9	249.8	211.0
97.5°	297.4	288.7	253.9	219.1	253.9	288.7	297.4	322.9	356.9	373.8	309.1
100°	417.6	407.3	365.8	324.3	365.8	407.3	417.6	415.8	413.3	412.0	340.1
102.5°	520.3	511.3	475.9	440.4	475.9	511.3	520.3	487.8	444.5	422.8	349.9
105°	640.1	635.4	616.3	597.2	616.3	635.4	640.1	567.3	470.2	421.6	351.1
107.5°	702.4	703.6	708.1	712.8	708.1	703.6	702.4	600.9	465.4	397.7	335.5
110°	718.4	723.4	743.2	763.1	743.2	723.4	718.4	604.8	453.4	377.7	321.6

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	708.2	715.9	746.4	776.9	746.4	715.9	708.2	592.0	437.0	359.5	309.5
115°	673.6	684.2	726.6	768.9	726.6	684.2	673.6	561.6	412.3	337.7	295.5
117.5°	625.9	637.6	684.6	731.6	684.6	637.6	625.9	524.8	390.1	322.8	286.9
120°	593.8	605.2	650.8	696.4	650.8	605.2	593.8	501.5	378.3	316.8	284.0
122.5°	561.6	572.9	617.9	662.9	617.9	572.9	561.6	478.5	367.5	312.1	282.5
125°	519.1	529.5	570.8	612.3	570.8	529.5	519.1	448.5	354.3	307.2	281.2
127.5°	484.9	493.6	528.6	563.6	528.6	493.6	484.9	424.2	343.4	303.0	280.5
130°	463.4	471.4	503.8	536.1	503.8	471.4	463.4	409.4	337.4	301.4	280.9
132.5°	445.0	452.2	481.1	510.1	481.1	452.2	445.0	396.6	332.2	300.0	281.2
135°	419.0	425.2	450.2	475.1	450.2	425.2	419.0	378.5	324.5	297.6	280.9
137.5°	399.8	404.9	425.3	445.7	425.3	404.9	399.8	365.6	320.0	297.2	282.7
140°	384.5	389.2	408.3	427.4	408.3	389.2	384.5	354.9	315.5	295.7	282.9
142.5°	373.6	377.7	394.2	410.7	394.2	377.7	373.6	347.7	313.1	295.7	283.9
145°	357.5	360.6	373.1	385.5	373.1	360.6	357.5	336.2	307.9	293.8	284.0
147.5°	343.9	346.5	356.8	367.1	356.8	346.5	343.9	327.2	304.9	293.8	286.0
150°	336.1	338.3	346.6	354.9	346.6	338.3	336.1	322.0	303.2	293.8	286.9
152.5°	329.9	331.5	337.8	344.1	337.8	331.5	329.9	317.9	301.8	293.8	287.6
155°	322.6	323.6	327.8	332.0	327.8	323.6	322.6	313.0	300.2	293.8	289.1
157.5°	316.2	317.0	319.9	322.8	319.9	317.0	316.2	308.7	298.7	293.8	290.5
160°	313.0	313.4	315.1	316.8	315.1	313.4	313.0	306.6	298.1	293.8	291.2
162.5°	310.0	310.4	312.0	313.6	312.0	310.4	310.0	304.6	297.4	293.8	292.0
165°	305.3	305.7	307.5	309.2	307.5	305.7	305.3	301.5	296.3	293.8	292.9
167.5°	303.4	303.6	304.3	304.9	304.3	303.6	303.4	300.9	297.5	295.7	295.1
170°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	300.9	297.5	295.7	295.7
172.5°	301.7	301.6	301.0	300.4	301.0	301.6	301.7	299.7	297.1	295.7	295.7
175°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	298.4	296.6	295.7	296.1
177.5°	299.2	299.0	298.4	297.6	298.4	299.0	299.2	298.3	296.9	296.2	296.5
180°	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6	297.6

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1011.7	1016.6	1019.5	1023.4	1033.1
5°	973.0	991.4	997.2	1011.7	1029.2
7.5°	887.7	943.9	959.4	994.3	1021.4
10°	805.3	861.5	888.7	971.0	1011.7
12.5°	763.7	796.6	815.0	930.3	998.2
15°	737.5	760.8	774.3	876.1	982.7
17.5°	717.2	733.6	743.3	822.8	961.3
20°	704.6	712.3	721.0	784.0	937.1
22.5°	695.8	691.0	697.8	756.9	904.2
25°	690.0	671.6	679.4	735.6	865.4
27.5°	694.9	654.2	657.1	716.2	824.7
30°	695.8	632.9	633.8	695.8	779.2
32.5°	689.1	610.6	611.5	670.6	727.8
35°	672.6	584.4	583.4	641.6	658.0
37.5°	650.3	556.3	556.3	609.6	581.5
40°	623.2	528.2	531.1	567.9	513.7
42.5°	590.2	498.2	502.0	512.7	463.3
45°	554.4	469.1	472.0	433.2	424.5
47.5°	514.6	439.1	440.0	359.6	411.9
50°	467.2	408.0	404.2	308.1	411.0
52.5°	425.5	374.1	362.5	279.1	373.2
55°	384.8	338.2	313.0	256.8	346.0
57.5°	348.9	291.7	267.4	230.6	340.1
60°	315.9	246.1	227.7	202.5	312.0
62.5°	288.8	212.2	208.3	183.1	282.9
65°	259.7	189.0	188.0	166.7	240.3
67.5°	231.6	173.5	172.5	151.2	183.1
70°	201.6	157.0	155.0	134.7	135.7
72.5°	170.5	138.6	136.6	121.1	112.4
75°	139.5	117.2	116.3	105.6	91.1
77.5°	109.5	93.0	95.0	85.3	66.9
80°	78.5	67.8	69.8	61.0	50.4
82.5°	52.3	44.6	46.5	38.8	33.9
85°	29.1	25.2	26.2	20.3	15.5
87.5°	13.6	11.6	11.6	7.8	4.8
90°	8.8	5.6	5.2	3.6	2.0
92.5°	54.2	38.6	35.2	21.5	7.9
95°	133.3	75.1	68.9	44.0	19.2
97.5°	179.6	82.5	76.9	55.0	33.1
100°	196.4	88.7	83.7	63.8	43.9
102.5°	204.2	94.9	90.2	71.7	53.1
105°	209.9	104.1	100.1	84.4	68.7
107.5°	211.0	117.6	114.0	99.3	84.7
110°	209.4	125.2	121.9	108.6	95.4



TEST NUMBER: P934398

CATALOG NUMBER: SQ4-FA-050U-075D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	209.4	134.4	131.2	118.6	106.0
115°	211.3	148.2	145.3	133.6	122.0
117.5°	215.3	161.5	158.9	148.4	137.8
120°	218.5	169.4	166.9	157.0	147.0
122.5°	223.1	178.6	176.1	166.1	156.0
125°	229.3	190.3	188.0	178.9	169.8
127.5°	235.5	201.7	199.4	190.2	180.9
130°	240.0	209.3	206.8	196.9	186.9
132.5°	243.7	215.5	213.0	203.1	193.1
135°	247.7	222.7	220.4	211.3	202.3
137.5°	253.7	231.9	229.7	220.6	211.7
140°	257.3	238.1	236.0	227.7	219.5
142.5°	260.4	242.6	240.7	233.1	225.5
145°	264.3	249.6	248.0	241.3	234.7
147.5°	270.3	258.4	256.8	250.4	243.9
150°	273.3	263.0	261.5	255.6	249.8
152.5°	275.3	266.0	264.9	260.5	256.0
155°	279.7	272.6	271.8	268.5	265.2
157.5°	284.0	279.2	278.4	275.2	272.0
160°	286.0	282.2	281.6	279.1	276.6
162.5°	288.2	285.4	284.9	283.0	281.2
165°	291.3	290.0	289.6	287.9	286.2
167.5°	293.6	292.5	292.3	291.6	290.8
170°	295.6	295.5	295.4	294.6	293.8
172.5°	295.7	295.7	295.7	295.5	295.4
175°	297.0	297.6	297.6	297.6	297.6
177.5°	297.1	297.6	297.6	297.6	297.6
180°	297.6	297.6	297.6	297.6	297.6

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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	13.32	14.26	14.21	15.16	16.32	16.12	17.05	17.00	17.96	19.11
	3H	13.80	14.64	14.70	15.56	16.74	17.46	18.30	18.36	19.21	20.39
	4H	14.00	14.79	14.91	15.71	16.90	17.90	18.69	18.81	19.62	20.80
	6H	14.12	14.85	15.05	15.78	16.98	18.18	18.91	19.11	19.84	21.04
	8H	14.12	14.82	15.06	15.77	16.97	18.25	18.95	19.19	19.90	21.09
	12H	14.10	14.76	15.04	15.70	16.93	18.29	18.95	19.23	19.89	21.12
4H	2H	14.35	15.15	15.27	16.07	17.26	16.54	17.33	17.46	18.25	19.44
	3H	15.39	16.05	16.32	17.00	18.20	18.04	18.70	18.97	19.65	20.86
	4H	15.67	16.27	16.61	17.22	18.45	18.56	19.17	19.50	20.12	21.34
	6H	15.80	16.32	16.75	17.29	18.52	18.93	19.45	19.88	20.42	21.65
	8H	15.80	16.29	16.76	17.26	18.50	19.03	19.52	19.99	20.48	21.72
	12H	15.78	16.21	16.75	17.20	18.44	19.09	19.52	20.06	20.51	21.75
8H	4H	16.12	16.61	17.08	17.57	18.81	18.70	19.18	19.65	20.15	21.39
	6H	16.39	16.79	17.37	17.79	19.04	19.13	19.53	20.11	20.54	21.78
	8H	16.43	16.78	17.42	17.78	19.04	19.28	19.63	20.27	20.63	21.88
	12H	16.42	16.73	17.41	17.72	19.02	19.37	19.68	20.37	20.67	21.98
12H	4H	16.13	16.57	17.10	17.55	18.80	18.66	19.10	19.64	20.09	21.33
	6H	16.45	16.80	17.44	17.80	19.06	19.13	19.48	20.12	20.48	21.74
	8H	16.52	16.83	17.51	17.82	19.12	19.29	19.60	20.28	20.59	21.89

END OF REPORT