

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: P934371

Luminaire Tested: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934371
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

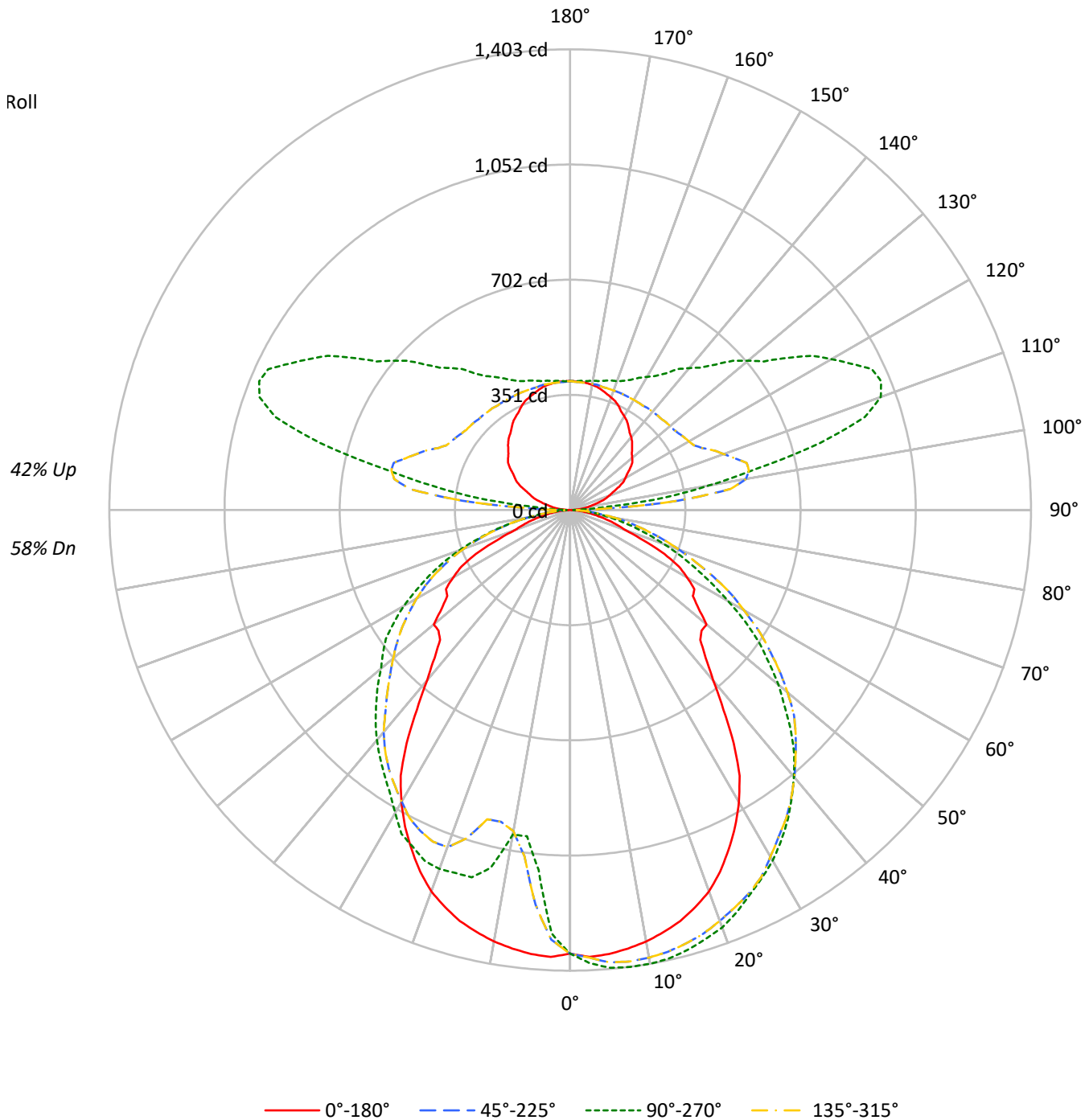
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6048.3 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 54.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934371
CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8356	8356	8356	8356
5°	8416	8435	8416	6633
10°	8356	8309	8356	5940
15°	8263	8129	8263	6788
20°	8086	7916	8086	6802
25°	7730	7605	7730	6658
30°	7270	7347	7270	6342
35°	6478	7020	6478	5994
40°	5394	6636	5394	5731
45°	4817	6185	4817	5429
50°	5114	5648	5114	5126
55°	4806	5070	4806	4950
60°	4948	4306	4948	4534
65°	4479	3560	4479	3979
70°	3094	2836	3094	3335
75°	2702	2097	2702	2511
80°	2164	1386	2164	1509
85°	1216	734	1216	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7387 cd/sqm



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	2.0
10°-20°	346.2	5.7
20°-30°	535.2	8.8
30°-40°	638.9	10.6
40°-50°	642.6	10.6
50°-60°	559.2	9.2
60°-70°	396.5	6.6
70°-80°	209.8	3.5
80°-90°	53.7	0.9
90°-100°	191.3	3.2
100°-110°	503.0	8.3
110°-120°	521.5	8.6
120°-130°	418.3	6.9
130°-140°	328.2	5.4
140°-150°	251.9	4.2
150°-160°	181.4	3.0
160°-170°	111.0	1.8
170°-180°	37.5	0.6
0°-30°	1003.3	16.6
0°-40°	1642.2	27.2
0°-60°	2844.1	47.0
0°-90°	3504.0	57.9
90°-120°	1215.8	20.1
90°-150°	2214.3	36.6
90°-180°	2544.0	42.1
0°-180°	6048.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1351	1351	1351	1351	1351	
5°	1357	1399	1357	1100	1357	129
15°	1296	1387	1296	1158	1296	365
25°	1141	1293	1141	1132	1141	524
35°	868	1154	868	985	868	537
45°	560	951	560	834	560	448
55°	456	702	456	685	456	419
65°	317	423	317	473	317	303
75°	120	201	120	240	120	126
85°	20	51	20	44	20	28
90°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	788	91	788	91	96
115°	161	1014	161	1014	161	159
125°	224	808	224	808	224	199
135°	267	627	267	627	267	206
145°	310	508	310	508	310	194
155°	350	438	350	438	350	161
165°	377	408	377	408	377	107
175°	392	395	392	395	392	37
180°	392	392	392	392	392	



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1362.3	1362.3	1370.0	1372.6	1372.6	1368.7	1364.9	1368.7	1380.2	1384.1	1382.8
5°	1357.2	1367.5	1381.5	1384.1	1386.6	1385.4	1382.8	1385.4	1398.1	1400.7	1402.0
7.5°	1347.0	1366.2	1384.1	1387.9	1391.7	1387.9	1386.6	1389.2	1402.0	1404.5	1404.5
10°	1334.2	1361.1	1381.5	1384.1	1387.9	1384.1	1384.1	1389.2	1402.0	1404.5	1405.8
12.5°	1316.3	1353.4	1372.6	1375.1	1380.2	1379.0	1377.7	1382.8	1395.6	1398.1	1398.1
15°	1295.9	1339.3	1357.2	1359.8	1368.7	1366.2	1366.2	1371.3	1385.4	1389.2	1387.9
17.5°	1267.8	1321.5	1341.9	1345.7	1352.1	1350.8	1352.1	1357.2	1370.0	1372.6	1373.8
20°	1235.8	1297.2	1321.5	1325.3	1331.7	1331.7	1331.7	1338.1	1350.8	1356.0	1356.0
22.5°	1192.4	1271.6	1297.2	1299.7	1307.4	1307.4	1310.0	1318.9	1330.4	1331.7	1331.7
25°	1141.3	1243.5	1265.2	1272.9	1280.6	1284.4	1288.2	1293.3	1297.2	1295.9	1297.2
27.5°	1087.6	1207.7	1235.8	1240.9	1251.2	1255.0	1260.1	1261.4	1262.7	1266.5	1263.9
30°	1027.5	1157.9	1200.0	1205.2	1221.8	1224.3	1219.2	1221.8	1228.2	1230.7	1233.3
32.5°	959.8	1083.7	1163.0	1174.5	1189.8	1182.1	1180.9	1184.7	1194.9	1194.9	1197.5
35°	867.8	1026.2	1128.5	1138.7	1150.2	1141.3	1146.4	1147.6	1154.0	1157.9	1156.6
37.5°	766.8	976.4	1092.7	1100.4	1109.3	1097.8	1105.5	1109.3	1114.4	1111.9	1111.9
40°	677.3	898.4	1050.5	1055.6	1063.3	1054.4	1062.0	1064.6	1067.1	1064.6	1063.3
42.5°	610.9	812.8	1005.8	1012.2	1007.1	1013.5	1016.0	1021.1	1017.3	1012.2	1012.2
45°	559.8	789.8	957.2	964.9	957.2	967.4	971.3	971.3	959.8	957.2	955.9
47.5°	543.2	743.8	908.7	908.7	904.8	917.6	924.0	915.0	903.5	899.7	899.7
50°	541.9	692.7	842.2	837.1	855.0	870.3	863.9	855.0	846.0	832.0	832.0
52.5°	492.0	630.1	756.6	775.7	803.9	812.8	802.6	793.6	778.3	771.9	766.8
55°	456.2	564.9	678.6	717.0	746.4	757.9	738.7	729.7	706.7	702.9	700.3
57.5°	448.6	470.3	607.0	655.6	691.4	690.1	678.6	662.0	642.8	639.0	637.7
60°	411.5	339.9	530.4	587.9	624.9	621.1	610.9	595.5	577.7	575.1	572.5
62.5°	373.2	246.7	443.5	508.6	561.0	559.8	550.8	527.8	515.0	508.6	503.5
65°	316.9	207.0	315.7	423.0	498.4	501.0	481.8	465.2	451.1	443.5	442.2
67.5°	241.5	168.7	213.4	352.7	438.4	435.8	411.5	403.8	386.0	382.1	374.5
70°	178.9	112.5	148.2	286.3	379.6	373.2	354.0	345.1	328.4	319.5	314.4
72.5°	148.2	90.7	108.6	222.4	319.5	311.8	295.2	285.0	270.9	263.3	258.2
75°	120.1	95.8	83.1	164.9	259.4	254.3	239.0	228.8	217.3	207.0	208.3
77.5°	88.2	89.5	66.5	121.4	205.8	198.1	189.1	176.4	171.3	161.0	161.0
80°	66.5	70.3	49.8	83.1	148.2	148.2	140.6	131.6	122.7	117.6	117.6
82.5°	44.7	44.7	37.1	52.4	101.0	97.1	92.0	89.5	84.3	81.8	81.8
85°	20.4	25.6	23.0	32.0	55.0	57.5	57.5	55.0	53.7	51.1	52.4
87.5°	6.4	11.5	14.1	17.9	28.1	29.4	30.7	30.7	30.7	32.0	32.0
90°	2.6	4.8	6.9	7.4	11.6	17.2	20.0	17.8	13.3	10.0	10.0
92.5°	10.6	28.5	46.3	50.9	71.5	99.0	112.7	98.7	70.9	50.0	48.1
95°	25.3	58.0	90.8	99.0	175.9	278.3	329.6	294.1	223.1	169.9	163.8
97.5°	43.7	72.7	101.6	108.8	236.9	407.8	493.1	470.7	425.8	392.2	380.7
100°	57.9	84.2	110.4	117.0	259.1	448.7	543.4	545.0	548.3	550.8	537.2
102.5°	70.0	94.6	119.0	125.2	269.3	461.5	557.6	586.2	643.3	686.2	674.5
105°	90.7	111.4	132.1	137.3	276.8	463.0	556.0	620.1	748.1	844.2	837.9
107.5°	111.7	131.0	150.3	155.1	278.3	442.4	524.4	613.7	792.4	926.4	927.9
110°	125.9	143.3	160.8	165.1	276.1	424.1	498.1	597.9	797.7	947.5	954.1



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	139.9	156.5	173.1	177.3	276.2	408.2	474.1	576.4	780.8	934.0	944.1
115°	160.9	176.3	191.6	195.4	278.8	389.9	445.4	543.9	740.8	888.5	902.4
117.5°	181.7	195.7	209.6	213.1	284.0	378.5	425.7	514.5	692.2	825.5	841.0
120°	193.8	207.0	220.1	223.4	288.1	374.5	417.7	498.9	661.3	783.1	798.2
122.5°	205.8	219.0	232.2	235.5	294.2	372.5	411.7	484.8	631.1	740.7	755.6
125°	223.9	235.9	248.0	251.0	302.4	370.9	405.1	467.2	591.5	684.6	698.2
127.5°	238.6	250.8	263.0	266.1	310.6	369.9	399.6	452.9	559.5	639.5	651.0
130°	246.6	259.7	272.8	276.0	316.5	370.4	397.5	444.9	539.9	611.1	621.8
132.5°	254.7	267.9	281.0	284.2	321.4	370.9	395.7	438.2	523.1	586.9	596.4
135°	266.8	278.8	290.7	293.7	326.7	370.5	392.5	428.1	499.3	552.6	560.9
137.5°	279.2	291.0	302.8	305.8	334.5	372.8	391.9	422.0	482.1	527.3	534.0
140°	289.5	300.4	311.2	314.0	339.4	373.2	390.1	416.1	468.1	507.0	513.3
142.5°	297.3	307.4	317.5	320.0	343.4	374.5	390.1	413.0	458.5	492.8	498.2
145°	309.5	318.3	327.1	329.3	348.7	374.5	387.5	406.1	443.5	471.5	475.6
147.5°	321.6	330.2	338.8	340.9	356.4	377.1	387.5	402.1	431.5	453.6	457.0
150°	329.6	337.3	345.0	346.9	360.5	378.5	387.5	399.9	424.7	443.3	446.0
152.5°	337.6	343.5	349.4	350.9	363.0	379.3	387.5	398.1	419.3	435.1	437.2
155°	349.8	354.2	358.4	359.5	368.8	381.3	387.5	395.9	412.8	425.4	426.8
157.5°	358.8	363.0	367.2	368.2	374.6	383.2	387.5	394.0	407.2	417.0	417.9
160°	364.8	368.1	371.3	372.2	377.3	384.1	387.5	393.1	404.4	412.8	413.3
162.5°	370.9	373.3	375.8	376.4	380.1	385.0	387.5	392.3	401.7	408.8	409.3
165°	377.4	379.7	381.9	382.5	384.2	386.4	387.5	390.9	397.6	402.7	403.3
167.5°	383.5	384.5	385.6	385.9	387.3	389.2	390.1	392.3	396.8	400.1	400.4
170°	387.5	388.5	389.6	389.9	390.0	390.0	390.1	392.3	396.8	400.1	400.1
172.5°	389.6	389.9	390.0	390.1	390.1	390.1	390.1	391.8	395.3	398.0	397.8
175°	392.5	392.5	392.5	392.5	391.7	390.6	390.1	391.2	393.5	395.1	395.1
177.5°	392.5	392.5	392.5	392.5	391.9	391.1	390.6	391.5	393.3	394.6	394.3
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1385.4	1381.5	1385.4	1382.8	1384.1	1380.2	1368.7	1364.9	1368.7	1372.6	1372.6
5°	1402.0	1399.4	1402.0	1402.0	1400.7	1398.1	1385.4	1382.8	1385.4	1386.6	1384.1
7.5°	1407.1	1403.2	1407.1	1404.5	1404.5	1402.0	1389.2	1386.6	1387.9	1391.7	1387.9
10°	1407.1	1403.2	1407.1	1405.8	1404.5	1402.0	1389.2	1384.1	1384.1	1387.9	1384.1
12.5°	1400.7	1398.1	1400.7	1398.1	1398.1	1395.6	1382.8	1377.7	1379.0	1380.2	1375.1
15°	1390.5	1386.6	1390.5	1387.9	1389.2	1385.4	1371.3	1366.2	1366.2	1368.7	1359.8
17.5°	1375.1	1370.0	1375.1	1373.8	1372.6	1370.0	1357.2	1352.1	1350.8	1352.1	1345.7
20°	1357.2	1353.4	1357.2	1356.0	1356.0	1350.8	1338.1	1331.7	1331.7	1331.7	1325.3
22.5°	1329.1	1325.3	1329.1	1331.7	1331.7	1330.4	1318.9	1310.0	1307.4	1307.4	1299.7
25°	1297.2	1293.3	1297.2	1297.2	1295.9	1297.2	1293.3	1288.2	1284.4	1280.6	1272.9
27.5°	1266.5	1263.9	1266.5	1263.9	1266.5	1262.7	1261.4	1260.1	1255.0	1251.2	1240.9
30°	1235.8	1233.3	1235.8	1233.3	1230.7	1228.2	1221.8	1219.2	1224.3	1221.8	1205.2
32.5°	1197.5	1194.9	1197.5	1197.5	1194.9	1194.9	1184.7	1180.9	1182.1	1189.8	1174.5
35°	1157.9	1154.0	1157.9	1156.6	1157.9	1154.0	1147.6	1146.4	1141.3	1150.2	1138.7
37.5°	1111.9	1108.0	1111.9	1111.9	1111.9	1114.4	1109.3	1105.5	1097.8	1109.3	1100.4
40°	1064.6	1059.5	1064.6	1063.3	1064.6	1067.1	1064.6	1062.0	1054.4	1063.3	1055.6
42.5°	1010.9	1009.6	1010.9	1012.2	1012.2	1017.3	1021.1	1016.0	1013.5	1007.1	1012.2
45°	953.4	950.8	953.4	955.9	957.2	959.8	971.3	971.3	967.4	957.2	964.9
47.5°	892.0	885.7	892.0	899.7	899.7	903.5	915.0	924.0	917.6	904.8	908.7
50°	826.9	828.1	826.9	832.0	832.0	846.0	855.0	863.9	870.3	855.0	837.1
52.5°	763.0	761.7	763.0	766.8	771.9	778.3	793.6	802.6	812.8	803.9	775.7
55°	699.1	701.6	699.1	700.3	702.9	706.7	729.7	738.7	757.9	746.4	717.0
57.5°	635.2	631.3	635.2	637.7	639.0	642.8	662.0	678.6	690.1	691.4	655.6
60°	561.0	555.9	561.0	572.5	575.1	577.7	595.5	610.9	621.1	624.9	587.9
62.5°	495.9	486.9	495.9	503.5	508.6	515.0	527.8	550.8	559.8	561.0	508.6
65°	426.9	423.0	426.9	442.2	443.5	451.1	465.2	481.8	501.0	498.4	423.0
67.5°	364.2	364.2	364.2	374.5	382.1	386.0	403.8	411.5	435.8	438.4	352.7
70°	306.7	305.4	306.7	314.4	319.5	328.4	345.1	354.0	373.2	379.6	286.3
72.5°	251.8	250.5	251.8	258.2	263.3	270.9	285.0	295.2	311.8	319.5	222.4
75°	203.2	200.6	203.2	208.3	207.0	217.3	228.8	239.0	254.3	259.4	164.9
77.5°	155.9	155.9	155.9	161.0	161.0	171.3	176.4	189.1	198.1	205.8	121.4
80°	116.3	115.0	116.3	117.6	117.6	122.7	131.6	140.6	148.2	148.2	83.1
82.5°	81.8	79.2	81.8	81.8	81.8	84.3	89.5	92.0	97.1	101.0	52.4
85°	51.1	51.1	51.1	52.4	51.1	53.7	55.0	57.5	57.5	55.0	32.0
87.5°	33.2	32.0	33.2	32.0	32.0	30.7	30.7	30.7	29.4	28.1	17.9
90°	10.0	10.0	10.0	10.0	10.0	13.3	17.8	20.0	17.2	11.6	7.4
92.5°	40.0	32.1	40.0	48.1	50.0	70.9	98.7	112.7	99.0	71.5	50.9
95°	139.7	115.6	139.7	163.8	169.9	223.1	294.1	329.6	278.3	175.9	99.0
97.5°	334.8	289.0	334.8	380.7	392.2	425.8	470.7	493.1	407.8	236.9	108.8
100°	482.5	427.8	482.5	537.2	550.8	548.3	545.0	543.4	448.7	259.1	117.0
102.5°	627.7	580.8	627.7	674.5	686.2	643.3	586.2	557.6	461.5	269.3	125.2
105°	812.8	787.6	812.8	837.9	844.2	748.1	620.1	556.0	463.0	276.8	137.3
107.5°	934.0	940.1	934.0	927.9	926.4	792.4	613.7	524.4	442.4	278.3	155.1
110°	980.2	1006.5	980.2	954.1	947.5	797.7	597.9	498.1	424.1	276.1	165.1



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	984.4	1024.6	984.4	944.1	934.0	780.8	576.4	474.1	408.2	276.2	177.3
115°	958.2	1014.1	958.2	902.4	888.5	740.8	543.9	445.4	389.9	278.8	195.4
117.5°	902.9	964.9	902.9	841.0	825.5	692.2	514.5	425.7	378.5	284.0	213.1
120°	858.3	918.5	858.3	798.2	783.1	661.3	498.9	417.7	374.5	288.1	223.4
122.5°	814.9	874.2	814.9	755.6	740.7	631.1	484.8	411.7	372.5	294.2	235.5
125°	752.9	807.6	752.9	698.2	684.6	591.5	467.2	405.1	370.9	302.4	251.0
127.5°	697.2	743.4	697.2	651.0	639.5	559.5	452.9	399.6	369.9	310.6	266.1
130°	664.4	707.0	664.4	621.8	611.1	539.9	444.9	397.5	370.4	316.5	276.0
132.5°	634.6	672.7	634.6	596.4	586.9	523.1	438.2	395.7	370.9	321.4	284.2
135°	593.8	626.6	593.8	560.9	552.6	499.3	428.1	392.5	370.5	326.7	293.7
137.5°	561.0	588.0	561.0	534.0	527.3	482.1	422.0	391.9	372.8	334.5	305.8
140°	538.5	563.7	538.5	513.3	507.0	468.1	416.1	390.1	373.2	339.4	314.0
142.5°	519.9	541.5	519.9	498.2	492.8	458.5	413.0	390.1	374.5	343.4	320.0
145°	492.0	508.4	492.0	475.6	471.5	443.5	406.1	387.5	374.5	348.7	329.3
147.5°	470.6	484.1	470.6	457.0	453.6	431.5	402.1	387.5	377.1	356.4	340.9
150°	457.1	468.1	457.1	446.0	443.3	424.7	399.9	387.5	378.5	360.5	346.9
152.5°	445.5	453.9	445.5	437.2	435.1	419.3	398.1	387.5	379.3	363.0	350.9
155°	432.3	437.8	432.3	426.8	425.4	412.8	395.9	387.5	381.3	368.8	359.5
157.5°	421.8	425.7	421.8	417.9	417.0	407.2	394.0	387.5	383.2	374.6	368.2
160°	415.5	417.7	415.5	413.3	412.8	404.4	393.1	387.5	384.1	377.3	372.2
162.5°	411.4	413.6	411.4	409.3	408.8	401.7	392.3	387.5	385.0	380.1	376.4
165°	405.6	407.8	405.6	403.3	402.7	397.6	390.9	387.5	386.4	384.2	382.5
167.5°	401.3	402.2	401.3	400.4	400.1	396.8	392.3	390.1	389.2	387.3	385.9
170°	400.1	400.1	400.1	400.1	400.1	396.8	392.3	390.1	390.0	390.0	389.9
172.5°	396.9	396.2	396.9	397.8	398.0	395.3	391.8	390.1	390.1	390.1	390.1
175°	395.1	395.1	395.1	395.1	395.1	393.5	391.2	390.1	390.6	391.7	392.5
177.5°	393.5	392.5	393.5	394.3	394.6	393.3	391.5	390.6	391.1	391.9	392.5
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1370.0	1362.3	1362.3	1349.6	1344.5	1340.6	1334.2	1315.1	1310.0	1304.8	1312.5
5°	1381.5	1367.5	1357.2	1334.2	1315.1	1307.4	1283.1	1237.1	1206.4	1183.4	1170.6
7.5°	1384.1	1366.2	1347.0	1311.2	1265.2	1244.8	1170.6	1086.3	1063.3	1042.8	1030.1
10°	1381.5	1361.1	1334.2	1280.6	1171.9	1136.1	1062.0	1007.1	993.0	989.2	993.0
12.5°	1372.6	1353.4	1316.3	1226.9	1074.8	1050.5	1007.1	975.1	972.6	978.9	1013.5
15°	1357.2	1339.3	1295.9	1155.3	1021.1	1003.2	972.6	961.1	975.1	1019.8	1123.4
17.5°	1341.9	1321.5	1267.8	1085.0	980.2	967.4	945.7	968.7	1048.0	1108.0	1142.5
20°	1321.5	1297.2	1235.8	1033.9	950.8	939.3	929.1	1032.6	1092.7	1114.4	1133.6
22.5°	1297.2	1271.6	1192.4	998.1	920.2	911.2	917.6	1068.4	1092.7	1108.0	1124.6
25°	1265.2	1243.5	1141.3	970.0	895.9	885.7	909.9	1064.6	1078.6	1082.5	1115.7
27.5°	1235.8	1207.7	1087.6	944.4	866.5	862.6	916.3	1048.0	1058.2	1062.0	1097.8
30°	1200.0	1157.9	1027.5	917.6	835.8	834.5	917.6	1027.5	1025.0	1035.2	1071.0
32.5°	1163.0	1083.7	959.8	884.4	806.4	805.1	908.7	996.8	994.3	1008.3	1035.2
35°	1128.5	1026.2	867.8	846.0	769.4	770.6	886.9	961.1	962.3	975.1	991.7
37.5°	1092.7	976.4	766.8	803.9	733.6	733.6	857.5	927.8	925.3	929.1	952.1
40°	1050.5	898.4	677.3	748.9	700.3	696.5	821.8	892.0	883.1	881.8	913.8
42.5°	1005.8	812.8	610.9	676.1	662.0	656.9	778.3	848.6	832.0	835.8	876.7
45°	957.2	789.8	559.8	571.3	622.4	618.6	731.0	798.8	787.2	797.5	839.6
47.5°	908.7	743.8	543.2	474.1	580.2	578.9	678.6	750.2	743.8	754.0	798.8
50°	842.2	692.7	541.9	406.4	532.9	538.0	616.0	702.9	702.9	711.8	759.1
52.5°	756.6	630.1	492.0	368.1	478.0	493.3	561.0	662.0	664.6	673.5	715.7
55°	678.6	564.9	456.2	338.7	412.8	446.0	507.4	619.8	624.9	633.9	672.2
57.5°	607.0	470.3	448.6	304.2	352.7	384.7	460.1	578.9	581.5	589.2	626.2
60°	530.4	339.9	411.5	267.1	300.3	324.6	416.6	530.4	539.3	544.4	576.4
62.5°	443.5	246.7	373.2	241.5	274.8	279.9	380.8	484.4	495.9	499.7	518.9
65°	315.7	207.0	316.9	219.8	247.9	249.2	342.5	437.1	447.3	453.7	467.7
67.5°	213.4	168.7	241.5	199.4	227.5	228.8	305.4	382.1	396.2	401.3	410.2
70°	148.2	112.5	178.9	177.6	204.5	207.0	265.8	332.3	345.1	348.9	354.0
72.5°	108.6	90.7	148.2	159.8	180.2	182.8	224.9	276.0	288.8	292.7	295.2
75°	83.1	95.8	120.1	139.3	153.4	154.6	184.0	224.9	233.9	236.4	237.7
77.5°	66.5	89.5	88.2	112.5	125.2	122.7	144.4	173.8	181.5	181.5	181.5
80°	49.8	70.3	66.5	80.5	92.0	89.5	103.5	124.0	126.5	129.1	127.8
82.5°	37.1	44.7	44.7	51.1	61.3	58.8	69.0	80.5	80.5	80.5	83.1
85°	23.0	25.6	20.4	26.8	34.5	33.2	38.3	43.5	44.7	44.7	42.2
87.5°	14.1	11.5	6.4	10.2	15.3	15.3	17.9	19.2	17.9	17.9	17.9
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.6	17.2	20.0	17.8	13.3
92.5°	46.3	28.5	10.6	28.5	46.3	50.9	71.5	99.0	112.7	98.7	70.9
95°	90.8	58.0	25.3	58.0	90.8	99.0	175.9	278.3	329.6	294.1	223.1
97.5°	101.6	72.7	43.7	72.7	101.6	108.8	236.9	407.8	493.1	470.7	425.8
100°	110.4	84.2	57.9	84.2	110.4	117.0	259.1	448.7	543.4	545.0	548.3
102.5°	119.0	94.6	70.0	94.6	119.0	125.2	269.3	461.5	557.6	586.2	643.3
105°	132.1	111.4	90.7	111.4	132.1	137.3	276.8	463.0	556.0	620.1	748.1
107.5°	150.3	131.0	111.7	131.0	150.3	155.1	278.3	442.4	524.4	613.7	792.4
110°	160.8	143.3	125.9	143.3	160.8	165.1	276.1	424.1	498.1	597.9	797.7



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.1	156.5	139.9	156.5	173.1	177.3	276.2	408.2	474.1	576.4	780.8
115°	191.6	176.3	160.9	176.3	191.6	195.4	278.8	389.9	445.4	543.9	740.8
117.5°	209.6	195.7	181.7	195.7	209.6	213.1	284.0	378.5	425.7	514.5	692.2
120°	220.1	207.0	193.8	207.0	220.1	223.4	288.1	374.5	417.7	498.9	661.3
122.5°	232.2	219.0	205.8	219.0	232.2	235.5	294.2	372.5	411.7	484.8	631.1
125°	248.0	235.9	223.9	235.9	248.0	251.0	302.4	370.9	405.1	467.2	591.5
127.5°	263.0	250.8	238.6	250.8	263.0	266.1	310.6	369.9	399.6	452.9	559.5
130°	272.8	259.7	246.6	259.7	272.8	276.0	316.5	370.4	397.5	444.9	539.9
132.5°	281.0	267.9	254.7	267.9	281.0	284.2	321.4	370.9	395.7	438.2	523.1
135°	290.7	278.8	266.8	278.8	290.7	293.7	326.7	370.5	392.5	428.1	499.3
137.5°	302.8	291.0	279.2	291.0	302.8	305.8	334.5	372.8	391.9	422.0	482.1
140°	311.2	300.4	289.5	300.4	311.2	314.0	339.4	373.2	390.1	416.1	468.1
142.5°	317.5	307.4	297.3	307.4	317.5	320.0	343.4	374.5	390.1	413.0	458.5
145°	327.1	318.3	309.5	318.3	327.1	329.3	348.7	374.5	387.5	406.1	443.5
147.5°	338.8	330.2	321.6	330.2	338.8	340.9	356.4	377.1	387.5	402.1	431.5
150°	345.0	337.3	329.6	337.3	345.0	346.9	360.5	378.5	387.5	399.9	424.7
152.5°	349.4	343.5	337.6	343.5	349.4	350.9	363.0	379.3	387.5	398.1	419.3
155°	358.4	354.2	349.8	354.2	358.4	359.5	368.8	381.3	387.5	395.9	412.8
157.5°	367.2	363.0	358.8	363.0	367.2	368.2	374.6	383.2	387.5	394.0	407.2
160°	371.3	368.1	364.8	368.1	371.3	372.2	377.3	384.1	387.5	393.1	404.4
162.5°	375.8	373.3	370.9	373.3	375.8	376.4	380.1	385.0	387.5	392.3	401.7
165°	381.9	379.7	377.4	379.7	381.9	382.5	384.2	386.4	387.5	390.9	397.6
167.5°	385.6	384.5	383.5	384.5	385.6	385.9	387.3	389.2	390.1	392.3	396.8
170°	389.6	388.5	387.5	388.5	389.6	389.9	390.0	390.0	390.1	392.3	396.8
172.5°	390.0	389.9	389.6	389.9	390.0	390.1	390.1	390.1	390.1	391.8	395.3
175°	392.5	392.5	392.5	392.5	392.5	392.5	391.7	390.6	390.1	391.2	393.5
177.5°	392.5	392.5	392.5	392.5	392.5	392.5	391.9	391.1	390.6	391.5	393.3
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934371
 CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1303.6	1299.7	1304.8	1290.8	1304.8	1299.7	1303.6	1312.5	1304.8	1310.0	1315.1
5°	1143.8	1137.4	1117.0	1100.4	1117.0	1137.4	1143.8	1170.6	1183.4	1206.4	1237.1
7.5°	1022.4	1017.3	1012.2	1002.0	1012.2	1017.3	1022.4	1030.1	1042.8	1063.3	1086.3
10°	995.6	996.8	1004.5	1003.2	1004.5	996.8	995.6	993.0	989.2	993.0	1007.1
12.5°	1064.6	1076.1	1118.2	1115.7	1118.2	1076.1	1064.6	1013.5	978.9	972.6	975.1
15°	1143.8	1147.6	1156.6	1157.9	1156.6	1147.6	1143.8	1123.4	1019.8	975.1	961.1
17.5°	1151.5	1152.8	1159.1	1159.1	1159.1	1152.8	1151.5	1142.5	1108.0	1048.0	968.7
20°	1145.1	1147.6	1160.4	1163.0	1160.4	1147.6	1145.1	1133.6	1114.4	1092.7	1032.6
22.5°	1142.5	1147.6	1157.9	1156.6	1157.9	1147.6	1142.5	1124.6	1108.0	1092.7	1068.4
25°	1129.8	1129.8	1131.0	1132.3	1131.0	1129.8	1129.8	1115.7	1082.5	1078.6	1064.6
27.5°	1102.9	1105.5	1113.1	1111.9	1113.1	1105.5	1102.9	1097.8	1062.0	1058.2	1048.0
30°	1078.6	1076.1	1069.7	1064.6	1069.7	1076.1	1078.6	1071.0	1035.2	1025.0	1027.5
32.5°	1037.7	1031.3	1025.0	1021.1	1025.0	1031.3	1037.7	1035.2	1008.3	994.3	996.8
35°	989.2	990.4	989.2	985.3	989.2	990.4	989.2	991.7	975.1	962.3	961.1
37.5°	954.7	957.2	955.9	950.8	955.9	957.2	954.7	952.1	929.1	925.3	927.8
40°	918.9	920.2	918.9	915.0	918.9	920.2	918.9	913.8	881.8	883.1	892.0
42.5°	884.4	883.1	879.3	876.7	879.3	883.1	884.4	876.7	835.8	832.0	848.6
45°	844.8	846.0	838.4	834.5	838.4	846.0	844.8	839.6	797.5	787.2	798.8
47.5°	805.1	805.1	798.8	794.9	798.8	805.1	805.1	798.8	754.0	743.8	750.2
50°	763.0	761.7	752.7	751.5	752.7	761.7	763.0	759.1	711.8	702.9	702.9
52.5°	714.4	714.4	715.7	718.2	715.7	714.4	714.4	715.7	673.5	664.6	662.0
55°	672.2	673.5	682.5	685.0	682.5	673.5	672.2	672.2	633.9	624.9	619.8
57.5°	628.8	628.8	635.2	635.2	635.2	628.8	628.8	626.2	589.2	581.5	578.9
60°	578.9	581.5	586.6	585.3	586.6	581.5	578.9	576.4	544.4	539.3	530.4
62.5°	526.5	529.1	530.4	527.8	530.4	529.1	526.5	518.9	499.7	495.9	484.4
65°	471.6	474.1	475.4	472.9	475.4	474.1	471.6	467.7	453.7	447.3	437.1
67.5°	415.4	414.1	412.8	417.9	412.8	414.1	415.4	410.2	401.3	396.2	382.1
70°	357.8	357.8	356.6	359.1	356.6	357.8	357.8	354.0	348.9	345.1	332.3
72.5°	296.5	295.2	300.3	296.5	300.3	295.2	296.5	295.2	292.7	288.8	276.0
75°	236.4	239.0	236.4	240.3	236.4	239.0	236.4	237.7	236.4	233.9	224.9
77.5°	180.2	182.8	180.2	180.2	180.2	182.8	180.2	181.5	181.5	181.5	173.8
80°	127.8	126.5	126.5	125.2	126.5	126.5	127.8	127.8	129.1	126.5	124.0
82.5°	81.8	80.5	80.5	83.1	80.5	80.5	81.8	83.1	80.5	80.5	80.5
85°	44.7	46.0	43.5	43.5	43.5	46.0	44.7	42.2	44.7	44.7	43.5
87.5°	16.6	15.3	15.3	15.3	15.3	15.3	16.6	17.9	17.9	17.9	19.2
90°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.3	17.8	20.0	17.2
92.5°	50.0	48.1	40.0	32.1	40.0	48.1	50.0	70.9	98.7	112.7	99.0
95°	169.9	163.8	139.7	115.6	139.7	163.8	169.9	223.1	294.1	329.6	278.3
97.5°	392.2	380.7	334.8	289.0	334.8	380.7	392.2	425.8	470.7	493.1	407.8
100°	550.8	537.2	482.5	427.8	482.5	537.2	550.8	548.3	545.0	543.4	448.7
102.5°	686.2	674.5	627.7	580.8	627.7	674.5	686.2	643.3	586.2	557.6	461.5
105°	844.2	837.9	812.8	787.6	812.8	837.9	844.2	748.1	620.1	556.0	463.0
107.5°	926.4	927.9	934.0	940.1	934.0	927.9	926.4	792.4	613.7	524.4	442.4
110°	947.5	954.1	980.2	1006.5	980.2	954.1	947.5	797.7	597.9	498.1	424.1



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	934.0	944.1	984.4	1024.6	984.4	944.1	934.0	780.8	576.4	474.1	408.2
115°	888.5	902.4	958.2	1014.1	958.2	902.4	888.5	740.8	543.9	445.4	389.9
117.5°	825.5	841.0	902.9	964.9	902.9	841.0	825.5	692.2	514.5	425.7	378.5
120°	783.1	798.2	858.3	918.5	858.3	798.2	783.1	661.3	498.9	417.7	374.5
122.5°	740.7	755.6	814.9	874.2	814.9	755.6	740.7	631.1	484.8	411.7	372.5
125°	684.6	698.2	752.9	807.6	752.9	698.2	684.6	591.5	467.2	405.1	370.9
127.5°	639.5	651.0	697.2	743.4	697.2	651.0	639.5	559.5	452.9	399.6	369.9
130°	611.1	621.8	664.4	707.0	664.4	621.8	611.1	539.9	444.9	397.5	370.4
132.5°	586.9	596.4	634.6	672.7	634.6	596.4	586.9	523.1	438.2	395.7	370.9
135°	552.6	560.9	593.8	626.6	593.8	560.9	552.6	499.3	428.1	392.5	370.5
137.5°	527.3	534.0	561.0	588.0	561.0	534.0	527.3	482.1	422.0	391.9	372.8
140°	507.0	513.3	538.5	563.7	538.5	513.3	507.0	468.1	416.1	390.1	373.2
142.5°	492.8	498.2	519.9	541.5	519.9	498.2	492.8	458.5	413.0	390.1	374.5
145°	471.5	475.6	492.0	508.4	492.0	475.6	471.5	443.5	406.1	387.5	374.5
147.5°	453.6	457.0	470.6	484.1	470.6	457.0	453.6	431.5	402.1	387.5	377.1
150°	443.3	446.0	457.1	468.1	457.1	446.0	443.3	424.7	399.9	387.5	378.5
152.5°	435.1	437.2	445.5	453.9	445.5	437.2	435.1	419.3	398.1	387.5	379.3
155°	425.4	426.8	432.3	437.8	432.3	426.8	425.4	412.8	395.9	387.5	381.3
157.5°	417.0	417.9	421.8	425.7	421.8	417.9	417.0	407.2	394.0	387.5	383.2
160°	412.8	413.3	415.5	417.7	415.5	413.3	412.8	404.4	393.1	387.5	384.1
162.5°	408.8	409.3	411.4	413.6	411.4	409.3	408.8	401.7	392.3	387.5	385.0
165°	402.7	403.3	405.6	407.8	405.6	403.3	402.7	397.6	390.9	387.5	386.4
167.5°	400.1	400.4	401.3	402.2	401.3	400.4	400.1	396.8	392.3	390.1	389.2
170°	400.1	400.1	400.1	400.1	400.1	400.1	400.1	396.8	392.3	390.1	390.0
172.5°	398.0	397.8	396.9	396.2	396.9	397.8	398.0	395.3	391.8	390.1	390.1
175°	395.1	395.1	395.1	395.1	395.1	395.1	395.1	393.5	391.2	390.1	390.6
177.5°	394.6	394.3	393.5	392.5	393.5	394.3	394.6	393.3	391.5	390.6	391.1
180°	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934371
 CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1334.2	1340.6	1344.5	1349.6	1362.3
5°	1283.1	1307.4	1315.1	1334.2	1357.2
7.5°	1170.6	1244.8	1265.2	1311.2	1347.0
10°	1062.0	1136.1	1171.9	1280.6	1334.2
12.5°	1007.1	1050.5	1074.8	1226.9	1316.3
15°	972.6	1003.2	1021.1	1155.3	1295.9
17.5°	945.7	967.4	980.2	1085.0	1267.8
20°	929.1	939.3	950.8	1033.9	1235.8
22.5°	917.6	911.2	920.2	998.1	1192.4
25°	909.9	885.7	895.9	970.0	1141.3
27.5°	916.3	862.6	866.5	944.4	1087.6
30°	917.6	834.5	835.8	917.6	1027.5
32.5°	908.7	805.1	806.4	884.4	959.8
35°	886.9	770.6	769.4	846.0	867.8
37.5°	857.5	733.6	733.6	803.9	766.8
40°	821.8	696.5	700.3	748.9	677.3
42.5°	778.3	656.9	662.0	676.1	610.9
45°	731.0	618.6	622.4	571.3	559.8
47.5°	678.6	578.9	580.2	474.1	543.2
50°	616.0	538.0	532.9	406.4	541.9
52.5°	561.0	493.3	478.0	368.1	492.0
55°	507.4	446.0	412.8	338.7	456.2
57.5°	460.1	384.7	352.7	304.2	448.6
60°	416.6	324.6	300.3	267.1	411.5
62.5°	380.8	279.9	274.8	241.5	373.2
65°	342.5	249.2	247.9	219.8	316.9
67.5°	305.4	228.8	227.5	199.4	241.5
70°	265.8	207.0	204.5	177.6	178.9
72.5°	224.9	182.8	180.2	159.8	148.2
75°	184.0	154.6	153.4	139.3	120.1
77.5°	144.4	122.7	125.2	112.5	88.2
80°	103.5	89.5	92.0	80.5	66.5
82.5°	69.0	58.8	61.3	51.1	44.7
85°	38.3	33.2	34.5	26.8	20.4
87.5°	17.9	15.3	15.3	10.2	6.4
90°	11.6	7.4	6.9	4.8	2.6
92.5°	71.5	50.9	46.3	28.5	10.6
95°	175.9	99.0	90.8	58.0	25.3
97.5°	236.9	108.8	101.6	72.7	43.7
100°	259.1	117.0	110.4	84.2	57.9
102.5°	269.3	125.2	119.0	94.6	70.0
105°	276.8	137.3	132.1	111.4	90.7
107.5°	278.3	155.1	150.3	131.0	111.7
110°	276.1	165.1	160.8	143.3	125.9



TEST NUMBER: P934371

CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	276.2	177.3	173.1	156.5	139.9
115°	278.8	195.4	191.6	176.3	160.9
117.5°	284.0	213.1	209.6	195.7	181.7
120°	288.1	223.4	220.1	207.0	193.8
122.5°	294.2	235.5	232.2	219.0	205.8
125°	302.4	251.0	248.0	235.9	223.9
127.5°	310.6	266.1	263.0	250.8	238.6
130°	316.5	276.0	272.8	259.7	246.6
132.5°	321.4	284.2	281.0	267.9	254.7
135°	326.7	293.7	290.7	278.8	266.8
137.5°	334.5	305.8	302.8	291.0	279.2
140°	339.4	314.0	311.2	300.4	289.5
142.5°	343.4	320.0	317.5	307.4	297.3
145°	348.7	329.3	327.1	318.3	309.5
147.5°	356.4	340.9	338.8	330.2	321.6
150°	360.5	346.9	345.0	337.3	329.6
152.5°	363.0	350.9	349.4	343.5	337.6
155°	368.8	359.5	358.4	354.2	349.8
157.5°	374.6	368.2	367.2	363.0	358.8
160°	377.3	372.2	371.3	368.1	364.8
162.5°	380.1	376.4	375.8	373.3	370.9
165°	384.2	382.5	381.9	379.7	377.4
167.5°	387.3	385.9	385.6	384.5	383.5
170°	390.0	389.9	389.6	388.5	387.5
172.5°	390.1	390.1	390.0	389.9	389.6
175°	391.7	392.5	392.5	392.5	392.5
177.5°	391.9	392.5	392.5	392.5	392.5
180°	392.5	392.5	392.5	392.5	392.5



TEST NUMBER: P934371
 CATALOG NUMBER: SQ4-FA-050U-075D-935-1D-UNV-STD-W-6

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	12.88	13.82	13.77	14.72	15.88	15.70	16.64	16.59	17.55	18.70
	3H	13.36	14.20	14.26	15.12	16.30	17.05	17.89	17.95	18.81	19.99
	4H	13.56	14.35	14.47	15.27	16.46	17.50	18.30	18.41	19.22	20.40
	6H	13.68	14.41	14.61	15.34	16.54	17.79	18.52	18.71	19.45	20.65
	8H	13.68	14.38	14.62	15.33	16.53	17.86	18.56	18.80	19.51	20.71
	12H	13.66	14.32	14.60	15.26	16.49	17.90	18.57	18.84	19.51	20.73
4H	2H	13.92	14.72	14.84	15.64	16.82	16.12	16.92	17.04	17.84	19.03
	3H	14.96	15.62	15.88	16.57	17.77	17.63	18.30	18.56	19.25	20.45
	4H	15.23	15.84	16.17	16.79	18.01	18.16	18.77	19.10	19.72	20.94
	6H	15.36	15.88	16.32	16.86	18.08	18.53	19.05	19.49	20.02	21.25
	8H	15.37	15.86	16.33	16.82	18.06	18.64	19.13	19.60	20.09	21.33
	12H	15.34	15.78	16.32	16.76	18.01	18.70	19.14	19.67	20.12	21.37
8H	4H	15.69	16.18	16.65	17.14	18.39	18.30	18.78	19.25	19.75	20.99
	6H	15.96	16.36	16.94	17.37	18.61	18.73	19.14	19.72	20.14	21.38
	8H	16.00	16.36	16.99	17.35	18.61	18.89	19.24	19.88	20.24	21.50
	12H	15.99	16.30	16.98	17.29	18.60	18.99	19.30	19.98	20.29	21.59
12H	4H	15.70	16.14	16.68	17.12	18.37	18.26	18.70	19.24	19.68	20.93
	6H	16.02	16.38	17.01	17.37	18.63	18.73	19.09	19.72	20.08	21.34
	8H	16.09	16.40	17.08	17.39	18.70	18.90	19.21	19.89	20.20	21.50