

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: P934351

Luminaire Tested: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

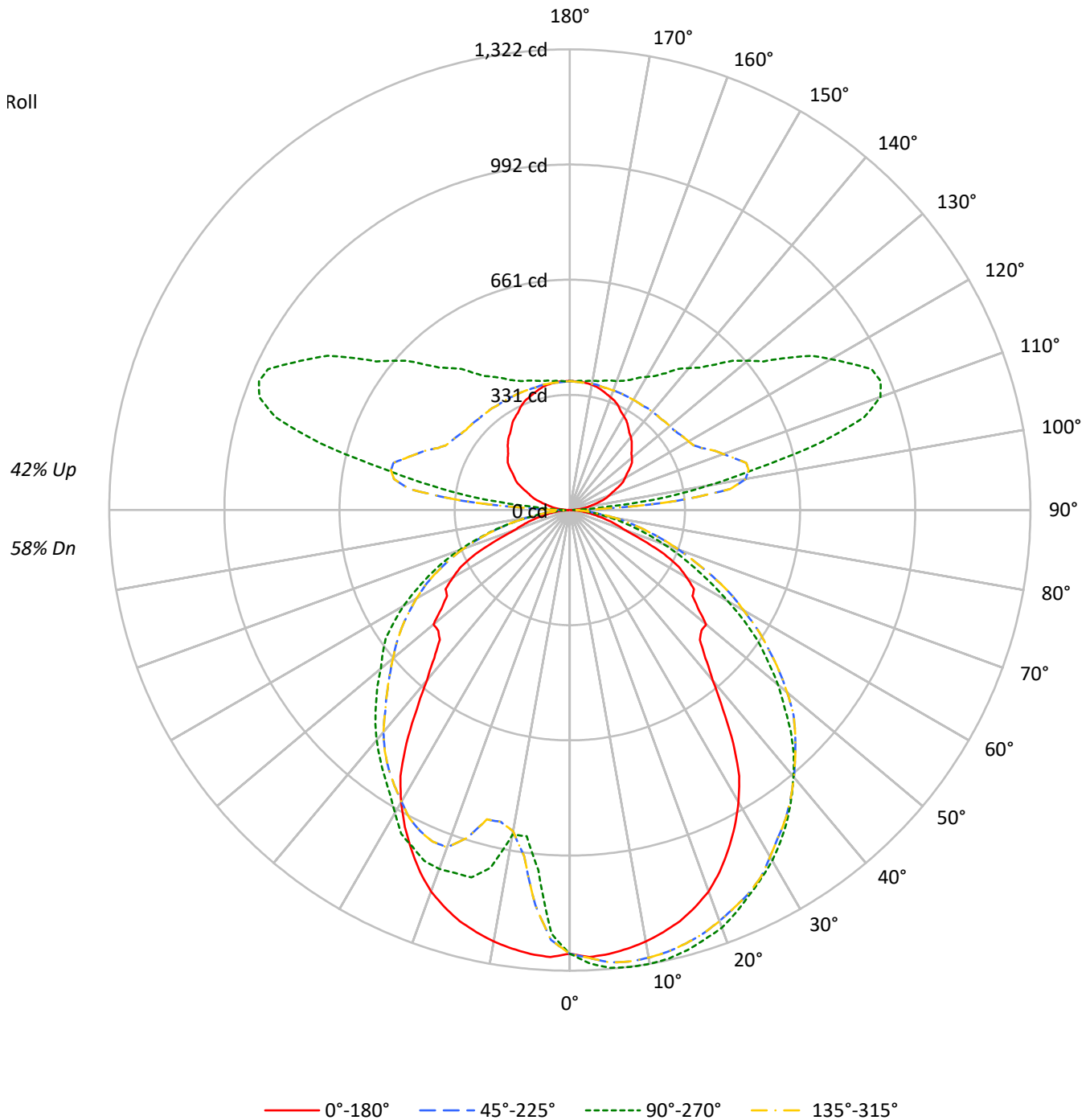
Test Method: LM-79-2019  
Report Number: P934351  
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5700.4 lumens  
Efficiency: N/A  
Efficacy: 104.4 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: P934351  
CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-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°	7876	7876	7876	7876
5°	7932	7950	7932	6252
10°	7876	7831	7876	5599
15°	7788	7662	7788	6398
20°	7622	7461	7622	6411
25°	7285	7168	7285	6275
30°	6852	6924	6852	5977
35°	6105	6617	6105	5649
40°	5084	6254	5084	5401
45°	4540	5829	4540	5116
50°	4819	5324	4819	4831
55°	4530	4779	4530	4665
60°	4663	4059	4663	4273
65°	4221	3355	4221	3751
70°	2916	2674	2916	3144
75°	2547	1976	2547	2366
80°	2038	1307	2038	1422
85°	1151	692	1151	589

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 6963 cd/sqm



TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	2.0
10°-20°	326.3	5.7
20°-30°	504.4	8.8
30°-40°	602.1	10.6
40°-50°	605.7	10.6
50°-60°	527.0	9.2
60°-70°	373.7	6.6
70°-80°	197.7	3.5
80°-90°	50.7	0.9
90°-100°	180.3	3.2
100°-110°	474.0	8.3
110°-120°	491.5	8.6
120°-130°	394.3	6.9
130°-140°	309.4	5.4
140°-150°	237.4	4.2
150°-160°	171.0	3.0
160°-170°	104.6	1.8
170°-180°	35.3	0.6
0°-30°	945.6	16.6
0°-40°	1547.8	27.2
0°-60°	2680.5	47.0
0°-90°	3302.5	57.9
90°-120°	1145.9	20.1
90°-150°	2087.0	36.6
90°-180°	2398.0	42.1
0°-180°	5700.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1273	1273	1273	1273	1273	
5°	1279	1319	1279	1037	1279	121
15°	1221	1307	1221	1091	1221	344
25°	1076	1219	1076	1067	1076	494
35°	818	1088	818	929	818	506
45°	528	896	528	786	528	423
55°	430	661	430	646	430	395
65°	299	399	299	446	299	285
75°	113	189	113	226	113	119
85°	19	48	19	41	19	26
90°	2	9	2	9	2	3
95°	24	109	24	109	24	26
105°	85	742	85	742	85	91
115°	152	956	152	956	152	150
125°	211	761	211	761	211	187
135°	252	591	252	591	252	195
145°	292	479	292	479	292	183
155°	330	413	330	413	330	151
165°	356	384	356	384	356	100
175°	370	372	370	372	370	35
180°	370	370	370	370	370	



TEST NUMBER: P934351  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1284.0	1284.0	1291.2	1293.6	1293.6	1290.0	1286.4	1290.0	1300.9	1304.5	1303.3
5°	1279.2	1288.8	1302.1	1304.5	1306.9	1305.7	1303.3	1305.7	1317.7	1320.1	1321.3
7.5°	1269.5	1287.6	1304.5	1308.1	1311.7	1308.1	1306.9	1309.3	1321.3	1323.7	1323.7
10°	1257.5	1282.8	1302.1	1304.5	1308.1	1304.5	1304.5	1309.3	1321.3	1323.7	1325.0
12.5°	1240.6	1275.6	1293.6	1296.0	1300.9	1299.7	1298.5	1303.3	1315.3	1317.7	1317.7
15°	1221.4	1262.3	1279.2	1281.6	1290.0	1287.6	1287.6	1292.4	1305.7	1309.3	1308.1
17.5°	1194.9	1245.5	1264.7	1268.3	1274.4	1273.2	1274.4	1279.2	1291.2	1293.6	1294.8
20°	1164.8	1222.6	1245.5	1249.1	1255.1	1255.1	1255.1	1261.1	1273.2	1278.0	1278.0
22.5°	1123.8	1198.5	1222.6	1225.0	1232.2	1232.2	1234.6	1243.0	1253.9	1255.1	1255.1
25°	1075.6	1172.0	1192.5	1199.7	1206.9	1210.5	1214.1	1219.0	1222.6	1221.4	1222.6
27.5°	1025.0	1138.3	1164.8	1169.6	1179.2	1182.8	1187.6	1188.8	1190.0	1193.7	1191.3
30°	968.4	1091.3	1131.0	1135.8	1151.5	1153.9	1149.1	1151.5	1157.5	1159.9	1162.3
32.5°	904.6	1021.4	1096.1	1106.9	1121.4	1114.2	1113.0	1116.6	1126.2	1126.2	1128.6
35°	817.9	967.2	1063.6	1073.2	1084.0	1075.6	1080.4	1081.6	1087.7	1091.3	1090.1
37.5°	722.7	920.2	1029.8	1037.1	1045.5	1034.7	1041.9	1045.5	1050.3	1047.9	1047.9
40°	638.4	846.8	990.1	994.9	1002.1	993.7	1000.9	1003.3	1005.8	1003.3	1002.1
42.5°	575.8	766.1	947.9	954.0	949.1	955.2	957.6	962.4	958.8	954.0	954.0
45°	527.6	744.4	902.2	909.4	902.2	911.8	915.4	915.4	904.6	902.2	901.0
47.5°	511.9	701.0	856.4	856.4	852.8	864.8	870.9	862.4	851.6	848.0	848.0
50°	510.7	652.8	793.8	788.9	805.8	820.3	814.2	805.8	797.4	784.1	784.1
52.5°	463.7	593.8	713.1	731.1	757.6	766.1	756.4	748.0	733.5	727.5	722.7
55°	430.0	532.4	639.6	675.7	703.4	714.3	696.2	687.8	666.1	662.5	660.1
57.5°	422.8	443.3	572.1	617.9	651.6	650.4	639.6	623.9	605.9	602.2	601.0
60°	387.8	320.4	499.9	554.1	589.0	585.4	575.8	561.3	544.4	542.0	539.6
62.5°	351.7	232.5	418.0	479.4	528.8	527.6	519.1	497.5	485.4	479.4	474.6
65°	298.7	195.1	297.5	398.7	469.8	472.2	454.1	438.4	425.2	418.0	416.8
67.5°	227.7	159.0	201.2	332.4	413.1	410.7	387.8	380.6	363.8	360.1	352.9
70°	168.6	106.0	139.7	269.8	357.7	351.7	333.6	325.2	309.6	301.1	296.3
72.5°	139.7	85.5	102.4	209.6	301.1	293.9	278.2	268.6	255.4	248.1	243.3
75°	113.2	90.3	78.3	155.4	244.5	239.7	225.2	215.6	204.8	195.1	196.3
77.5°	83.1	84.3	62.6	114.4	193.9	186.7	178.3	166.2	161.4	151.8	151.8
80°	62.6	66.2	47.0	78.3	139.7	139.7	132.5	124.1	115.6	110.8	110.8
82.5°	42.2	42.2	34.9	49.4	95.2	91.5	86.7	84.3	79.5	77.1	77.1
85°	19.3	24.1	21.7	30.1	51.8	54.2	54.2	51.8	50.6	48.2	49.4
87.5°	6.0	10.8	13.2	16.9	26.5	27.7	28.9	28.9	28.9	30.1	30.1
90°	2.5	4.5	6.5	7.0	10.9	16.2	18.9	16.8	12.5	9.4	9.4
92.5°	10.0	26.8	43.7	47.9	67.4	93.3	106.2	93.1	66.8	47.1	45.3
95°	23.8	54.7	85.6	93.3	165.7	262.3	310.6	277.2	210.3	160.1	154.4
97.5°	41.2	68.5	95.7	102.5	223.3	384.3	464.8	443.7	401.3	369.6	358.8
100°	54.6	79.3	104.1	110.3	244.2	422.9	512.2	513.7	516.8	519.1	506.3
102.5°	66.0	89.1	112.2	118.0	253.8	435.0	525.6	552.5	606.3	646.7	635.7
105°	85.4	105.0	124.5	129.4	260.9	436.4	524.0	584.4	705.1	795.7	789.8
107.5°	105.3	123.5	141.6	146.2	262.3	416.9	494.2	578.4	746.8	873.1	874.5
110°	118.7	135.1	151.5	155.6	260.3	399.7	469.4	563.5	751.8	893.0	899.2



TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	131.9	147.5	163.2	167.1	260.3	384.7	446.9	543.2	735.9	880.3	889.8
115°	151.7	166.1	180.6	184.2	262.7	367.5	419.8	512.6	698.2	837.4	850.5
117.5°	171.3	184.4	197.5	200.8	267.6	356.7	401.2	484.9	652.4	778.0	792.6
120°	182.7	195.0	207.4	210.5	271.6	353.0	393.7	470.2	623.3	738.0	752.3
122.5°	193.9	206.4	218.8	221.9	277.3	351.1	388.0	456.9	594.8	698.1	712.1
125°	211.0	222.4	233.8	236.6	285.0	349.5	381.8	440.4	557.4	645.2	658.1
127.5°	224.9	236.4	247.9	250.8	292.7	348.7	376.6	426.9	527.3	602.7	613.6
130°	232.4	244.8	257.1	260.2	298.3	349.1	374.6	419.3	508.9	576.0	586.0
132.5°	240.1	252.5	264.8	267.9	302.9	349.5	372.9	413.0	493.0	553.1	562.1
135°	251.5	262.7	274.0	276.8	307.9	349.2	369.9	403.5	470.6	520.8	528.6
137.5°	263.1	274.3	285.4	288.2	315.3	351.3	369.4	397.7	454.4	497.0	503.3
140°	272.9	283.1	293.3	295.9	319.8	351.7	367.7	392.2	441.2	477.9	483.8
142.5°	280.2	289.7	299.2	301.6	323.6	353.0	367.7	389.2	432.2	464.5	469.6
145°	291.7	300.0	308.3	310.4	328.7	353.0	365.2	382.8	418.0	444.4	448.2
147.5°	303.1	311.2	319.3	321.3	335.9	355.4	365.2	379.0	406.7	427.5	430.7
150°	310.6	317.9	325.1	327.0	339.7	356.7	365.2	376.9	400.3	417.8	420.4
152.5°	318.2	323.8	329.3	330.7	342.2	357.5	365.2	375.2	395.2	410.1	412.0
155°	329.7	333.8	337.8	338.9	347.6	359.3	365.2	373.2	389.1	400.9	402.2
157.5°	338.1	342.1	346.1	347.1	353.1	361.2	365.2	371.4	383.8	393.0	393.9
160°	343.8	346.9	349.9	350.8	355.6	362.0	365.2	370.5	381.1	389.1	389.5
162.5°	349.5	351.9	354.2	354.8	358.2	362.9	365.2	369.7	378.6	385.3	385.8
165°	355.7	357.8	359.9	360.5	362.1	364.2	365.2	368.4	374.8	379.6	380.1
167.5°	361.4	362.4	363.4	363.7	365.0	366.8	367.7	369.8	374.0	377.1	377.3
170°	365.2	366.2	367.2	367.5	367.5	367.6	367.7	369.8	374.0	377.1	377.1
172.5°	367.2	367.5	367.6	367.7	367.7	367.7	367.7	369.3	372.6	375.1	374.9
175°	369.9	369.9	369.9	369.9	369.2	368.2	367.7	368.7	370.8	372.4	372.4
177.5°	369.9	369.9	369.9	369.9	369.4	368.6	368.2	369.0	370.7	371.9	371.6
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934351  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1305.7	1302.1	1305.7	1303.3	1304.5	1300.9	1290.0	1286.4	1290.0	1293.6	1293.6
5°	1321.3	1318.9	1321.3	1321.3	1320.1	1317.7	1305.7	1303.3	1305.7	1306.9	1304.5
7.5°	1326.2	1322.5	1326.2	1323.7	1323.7	1321.3	1309.3	1306.9	1308.1	1311.7	1308.1
10°	1326.2	1322.5	1326.2	1325.0	1323.7	1321.3	1309.3	1304.5	1304.5	1308.1	1304.5
12.5°	1320.1	1317.7	1320.1	1317.7	1317.7	1315.3	1303.3	1298.5	1299.7	1300.9	1296.0
15°	1310.5	1306.9	1310.5	1308.1	1309.3	1305.7	1292.4	1287.6	1287.6	1290.0	1281.6
17.5°	1296.0	1291.2	1296.0	1294.8	1293.6	1291.2	1279.2	1274.4	1273.2	1274.4	1268.3
20°	1279.2	1275.6	1279.2	1278.0	1278.0	1273.2	1261.1	1255.1	1255.1	1255.1	1249.1
22.5°	1252.7	1249.1	1252.7	1255.1	1255.1	1253.9	1243.0	1234.6	1232.2	1232.2	1225.0
25°	1222.6	1219.0	1222.6	1222.6	1221.4	1222.6	1219.0	1214.1	1210.5	1206.9	1199.7
27.5°	1193.7	1191.3	1193.7	1191.3	1193.7	1190.0	1188.8	1187.6	1182.8	1179.2	1169.6
30°	1164.8	1162.3	1164.8	1162.3	1159.9	1157.5	1151.5	1149.1	1153.9	1151.5	1135.8
32.5°	1128.6	1126.2	1128.6	1128.6	1126.2	1126.2	1116.6	1113.0	1114.2	1121.4	1106.9
35°	1091.3	1087.7	1091.3	1090.1	1091.3	1087.7	1081.6	1080.4	1075.6	1084.0	1073.2
37.5°	1047.9	1044.3	1047.9	1047.9	1047.9	1050.3	1045.5	1041.9	1034.7	1045.5	1037.1
40°	1003.3	998.5	1003.3	1002.1	1003.3	1005.8	1003.3	1000.9	993.7	1002.1	994.9
42.5°	952.8	951.6	952.8	954.0	954.0	958.8	962.4	957.6	955.2	949.1	954.0
45°	898.6	896.1	898.6	901.0	902.2	904.6	915.4	915.4	911.8	902.2	909.4
47.5°	840.7	834.7	840.7	848.0	848.0	851.6	862.4	870.9	864.8	852.8	856.4
50°	779.3	780.5	779.3	784.1	784.1	797.4	805.8	814.2	820.3	805.8	788.9
52.5°	719.1	717.9	719.1	722.7	727.5	733.5	748.0	756.4	766.1	757.6	731.1
55°	658.9	661.3	658.9	660.1	662.5	666.1	687.8	696.2	714.3	703.4	675.7
57.5°	598.6	595.0	598.6	601.0	602.2	605.9	623.9	639.6	650.4	651.6	617.9
60°	528.8	524.0	528.8	539.6	542.0	544.4	561.3	575.8	585.4	589.0	554.1
62.5°	467.3	458.9	467.3	474.6	479.4	485.4	497.5	519.1	527.6	528.8	479.4
65°	402.3	398.7	402.3	416.8	418.0	425.2	438.4	454.1	472.2	469.8	398.7
67.5°	343.3	343.3	343.3	352.9	360.1	363.8	380.6	387.8	410.7	413.1	332.4
70°	289.1	287.9	289.1	296.3	301.1	309.6	325.2	333.6	351.7	357.7	269.8
72.5°	237.3	236.1	237.3	243.3	248.1	255.4	268.6	278.2	293.9	301.1	209.6
75°	191.5	189.1	191.5	196.3	195.1	204.8	215.6	225.2	239.7	244.5	155.4
77.5°	146.9	146.9	146.9	151.8	151.8	161.4	166.2	178.3	186.7	193.9	114.4
80°	109.6	108.4	109.6	110.8	110.8	115.6	124.1	132.5	139.7	139.7	78.3
82.5°	77.1	74.7	77.1	77.1	77.1	79.5	84.3	86.7	91.5	95.2	49.4
85°	48.2	48.2	48.2	49.4	48.2	50.6	51.8	54.2	54.2	51.8	30.1
87.5°	31.3	30.1	31.3	30.1	30.1	28.9	28.9	28.9	27.7	26.5	16.9
90°	9.4	9.4	9.4	9.4	9.4	12.5	16.8	18.9	16.2	10.9	7.0
92.5°	37.7	30.3	37.7	45.3	47.1	66.8	93.1	106.2	93.3	67.4	47.9
95°	131.7	109.0	131.7	154.4	160.1	210.3	277.2	310.6	262.3	165.7	93.3
97.5°	315.6	272.4	315.6	358.8	369.6	401.3	443.7	464.8	384.3	223.3	102.5
100°	454.7	403.2	454.7	506.3	519.1	516.8	513.7	512.2	422.9	244.2	110.3
102.5°	591.6	547.4	591.6	635.7	646.7	606.3	552.5	525.6	435.0	253.8	118.0
105°	766.1	742.3	766.1	789.8	795.7	705.1	584.4	524.0	436.4	260.9	129.4
107.5°	880.2	886.0	880.2	874.5	873.1	746.8	578.4	494.2	416.9	262.3	146.2
110°	923.9	948.6	923.9	899.2	893.0	751.8	563.5	469.4	399.7	260.3	155.6





TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	927.8	965.7	927.8	889.8	880.3	735.9	543.2	446.9	384.7	260.3	167.1
115°	903.1	955.8	903.1	850.5	837.4	698.2	512.6	419.8	367.5	262.7	184.2
117.5°	851.0	909.4	851.0	792.6	778.0	652.4	484.9	401.2	356.7	267.6	200.8
120°	808.9	865.7	808.9	752.3	738.0	623.3	470.2	393.7	353.0	271.6	210.5
122.5°	768.1	824.0	768.1	712.1	698.1	594.8	456.9	388.0	351.1	277.3	221.9
125°	709.6	761.2	709.6	658.1	645.2	557.4	440.4	381.8	349.5	285.0	236.6
127.5°	657.1	700.6	657.1	613.6	602.7	527.3	426.9	376.6	348.7	292.7	250.8
130°	626.2	666.3	626.2	586.0	576.0	508.9	419.3	374.6	349.1	298.3	260.2
132.5°	598.1	634.0	598.1	562.1	553.1	493.0	413.0	372.9	349.5	302.9	267.9
135°	559.6	590.6	559.6	528.6	520.8	470.6	403.5	369.9	349.2	307.9	276.8
137.5°	528.8	554.2	528.8	503.3	497.0	454.4	397.7	369.4	351.3	315.3	288.2
140°	507.5	531.3	507.5	483.8	477.9	441.2	392.2	367.7	351.7	319.8	295.9
142.5°	490.0	510.4	490.0	469.6	464.5	432.2	389.2	367.7	353.0	323.6	301.6
145°	463.7	479.2	463.7	448.2	444.4	418.0	382.8	365.2	353.0	328.7	310.4
147.5°	443.5	456.3	443.5	430.7	427.5	406.7	379.0	365.2	355.4	335.9	321.3
150°	430.8	441.2	430.8	420.4	417.8	400.3	376.9	365.2	356.7	339.7	327.0
152.5°	419.9	427.8	419.9	412.0	410.1	395.2	375.2	365.2	357.5	342.2	330.7
155°	407.4	412.6	407.4	402.2	400.9	389.1	373.2	365.2	359.3	347.6	338.9
157.5°	397.6	401.2	397.6	393.9	393.0	383.8	371.4	365.2	361.2	353.1	347.1
160°	391.6	393.7	391.6	389.5	389.1	381.1	370.5	365.2	362.0	355.6	350.8
162.5°	387.8	389.8	387.8	385.8	385.3	378.6	369.7	365.2	362.9	358.2	354.8
165°	382.2	384.3	382.2	380.1	379.6	374.8	368.4	365.2	364.2	362.1	360.5
167.5°	378.2	379.1	378.2	377.3	377.1	374.0	369.8	367.7	366.8	365.0	363.7
170°	377.1	377.1	377.1	377.1	377.1	374.0	369.8	367.7	367.6	367.5	367.5
172.5°	374.1	373.4	374.1	374.9	375.1	372.6	369.3	367.7	367.7	367.7	367.7
175°	372.4	372.4	372.4	372.4	372.4	370.8	368.7	367.7	368.2	369.2	369.9
177.5°	370.8	369.9	370.8	371.6	371.9	370.7	369.0	368.2	368.6	369.4	369.9
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934351  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1291.2	1284.0	1284.0	1272.0	1267.1	1263.5	1257.5	1239.4	1234.6	1229.8	1237.0
5°	1302.1	1288.8	1279.2	1257.5	1239.4	1232.2	1209.3	1166.0	1137.0	1115.4	1103.3
7.5°	1304.5	1287.6	1269.5	1235.8	1192.5	1173.2	1103.3	1023.8	1002.1	982.9	970.8
10°	1302.1	1282.8	1257.5	1206.9	1104.5	1070.8	1000.9	949.1	935.9	932.3	935.9
12.5°	1293.6	1275.6	1240.6	1156.3	1013.0	990.1	949.1	919.0	916.6	922.6	955.2
15°	1279.2	1262.3	1221.4	1088.9	962.4	945.5	916.6	905.8	919.0	961.2	1058.8
17.5°	1264.7	1245.5	1194.9	1022.6	923.9	911.8	891.3	913.0	987.7	1044.3	1076.8
20°	1245.5	1222.6	1164.8	974.4	896.1	885.3	875.7	973.2	1029.8	1050.3	1068.4
22.5°	1222.6	1198.5	1123.8	940.7	867.2	858.8	864.8	1007.0	1029.8	1044.3	1060.0
25°	1192.5	1172.0	1075.6	914.2	844.4	834.7	857.6	1003.3	1016.6	1020.2	1051.5
27.5°	1164.8	1138.3	1025.0	890.1	816.7	813.0	863.6	987.7	997.3	1000.9	1034.7
30°	1131.0	1091.3	968.4	864.8	787.7	786.5	864.8	968.4	966.0	975.6	1009.4
32.5°	1096.1	1021.4	904.6	833.5	760.0	758.8	856.4	939.5	937.1	950.4	975.6
35°	1063.6	967.2	817.9	797.4	725.1	726.3	835.9	905.8	907.0	919.0	934.7
37.5°	1029.8	920.2	722.7	757.6	691.4	691.4	808.2	874.5	872.1	875.7	897.4
40°	990.1	846.8	638.4	705.8	660.1	656.5	774.5	840.7	832.3	831.1	861.2
42.5°	947.9	766.1	575.8	637.2	623.9	619.1	733.5	799.8	784.1	787.7	826.3
45°	902.2	744.4	527.6	538.4	586.6	583.0	689.0	752.8	742.0	751.6	791.4
47.5°	856.4	701.0	511.9	446.9	546.8	545.6	639.6	707.0	701.0	710.7	752.8
50°	793.8	652.8	510.7	383.0	502.3	507.1	580.6	662.5	662.5	670.9	715.5
52.5°	713.1	593.8	463.7	346.9	450.5	464.9	528.8	623.9	626.3	634.8	674.5
55°	639.6	532.4	430.0	319.2	389.1	420.4	478.2	584.2	589.0	597.4	633.6
57.5°	572.1	443.3	422.8	286.7	332.4	362.6	433.6	545.6	548.0	555.3	590.2
60°	499.9	320.4	387.8	251.7	283.1	305.9	392.7	499.9	508.3	513.1	543.2
62.5°	418.0	232.5	351.7	227.7	259.0	263.8	358.9	456.5	467.3	471.0	489.0
65°	297.5	195.1	298.7	207.2	233.7	234.9	322.8	411.9	421.6	427.6	440.8
67.5°	201.2	159.0	227.7	187.9	214.4	215.6	287.9	360.1	373.4	378.2	386.6
70°	139.7	106.0	168.6	167.4	192.7	195.1	250.5	313.2	325.2	328.8	333.6
72.5°	102.4	85.5	139.7	150.6	169.8	172.2	212.0	260.2	272.2	275.8	278.2
75°	78.3	90.3	113.2	131.3	144.5	145.7	173.4	212.0	220.4	222.8	224.0
77.5°	62.6	84.3	83.1	106.0	118.0	115.6	136.1	163.8	171.0	171.0	171.0
80°	47.0	66.2	62.6	75.9	86.7	84.3	97.6	116.8	119.2	121.7	120.4
82.5°	34.9	42.2	42.2	48.2	57.8	55.4	65.0	75.9	75.9	75.9	78.3
85°	21.7	24.1	19.3	25.3	32.5	31.3	36.1	41.0	42.2	42.2	39.7
87.5°	13.2	10.8	6.0	9.6	14.5	14.5	16.9	18.1	16.9	16.9	16.9
90°	6.5	4.5	2.5	4.5	6.5	7.0	10.9	16.2	18.9	16.8	12.5
92.5°	43.7	26.8	10.0	26.8	43.7	47.9	67.4	93.3	106.2	93.1	66.8
95°	85.6	54.7	23.8	54.7	85.6	93.3	165.7	262.3	310.6	277.2	210.3
97.5°	95.7	68.5	41.2	68.5	95.7	102.5	223.3	384.3	464.8	443.7	401.3
100°	104.1	79.3	54.6	79.3	104.1	110.3	244.2	422.9	512.2	513.7	516.8
102.5°	112.2	89.1	66.0	89.1	112.2	118.0	253.8	435.0	525.6	552.5	606.3
105°	124.5	105.0	85.4	105.0	124.5	129.4	260.9	436.4	524.0	584.4	705.1
107.5°	141.6	123.5	105.3	123.5	141.6	146.2	262.3	416.9	494.2	578.4	746.8
110°	151.5	135.1	118.7	135.1	151.5	155.6	260.3	399.7	469.4	563.5	751.8



TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	163.2	147.5	131.9	147.5	163.2	167.1	260.3	384.7	446.9	543.2	735.9
115°	180.6	166.1	151.7	166.1	180.6	184.2	262.7	367.5	419.8	512.6	698.2
117.5°	197.5	184.4	171.3	184.4	197.5	200.8	267.6	356.7	401.2	484.9	652.4
120°	207.4	195.0	182.7	195.0	207.4	210.5	271.6	353.0	393.7	470.2	623.3
122.5°	218.8	206.4	193.9	206.4	218.8	221.9	277.3	351.1	388.0	456.9	594.8
125°	233.8	222.4	211.0	222.4	233.8	236.6	285.0	349.5	381.8	440.4	557.4
127.5°	247.9	236.4	224.9	236.4	247.9	250.8	292.7	348.7	376.6	426.9	527.3
130°	257.1	244.8	232.4	244.8	257.1	260.2	298.3	349.1	374.6	419.3	508.9
132.5°	264.8	252.5	240.1	252.5	264.8	267.9	302.9	349.5	372.9	413.0	493.0
135°	274.0	262.7	251.5	262.7	274.0	276.8	307.9	349.2	369.9	403.5	470.6
137.5°	285.4	274.3	263.1	274.3	285.4	288.2	315.3	351.3	369.4	397.7	454.4
140°	293.3	283.1	272.9	283.1	293.3	295.9	319.8	351.7	367.7	392.2	441.2
142.5°	299.2	289.7	280.2	289.7	299.2	301.6	323.6	353.0	367.7	389.2	432.2
145°	308.3	300.0	291.7	300.0	308.3	310.4	328.7	353.0	365.2	382.8	418.0
147.5°	319.3	311.2	303.1	311.2	319.3	321.3	335.9	355.4	365.2	379.0	406.7
150°	325.1	317.9	310.6	317.9	325.1	327.0	339.7	356.7	365.2	376.9	400.3
152.5°	329.3	323.8	318.2	323.8	329.3	330.7	342.2	357.5	365.2	375.2	395.2
155°	337.8	333.8	329.7	333.8	337.8	338.9	347.6	359.3	365.2	373.2	389.1
157.5°	346.1	342.1	338.1	342.1	346.1	347.1	353.1	361.2	365.2	371.4	383.8
160°	349.9	346.9	343.8	346.9	349.9	350.8	355.6	362.0	365.2	370.5	381.1
162.5°	354.2	351.9	349.5	351.9	354.2	354.8	358.2	362.9	365.2	369.7	378.6
165°	359.9	357.8	355.7	357.8	359.9	360.5	362.1	364.2	365.2	368.4	374.8
167.5°	363.4	362.4	361.4	362.4	363.4	363.7	365.0	366.8	367.7	369.8	374.0
170°	367.2	366.2	365.2	366.2	367.2	367.5	367.5	367.6	367.7	369.8	374.0
172.5°	367.6	367.5	367.2	367.5	367.6	367.7	367.7	367.7	367.7	369.3	372.6
175°	369.9	369.9	369.9	369.9	369.9	369.9	369.2	368.2	367.7	368.7	370.8
177.5°	369.9	369.9	369.9	369.9	369.9	369.9	369.4	368.6	368.2	369.0	370.7
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934351  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1228.6	1225.0	1229.8	1216.5	1229.8	1225.0	1228.6	1237.0	1229.8	1234.6	1239.4
5°	1078.0	1072.0	1052.7	1037.1	1052.7	1072.0	1078.0	1103.3	1115.4	1137.0	1166.0
7.5°	963.6	958.8	954.0	944.3	954.0	958.8	963.6	970.8	982.9	1002.1	1023.8
10°	938.3	939.5	946.7	945.5	946.7	939.5	938.3	935.9	932.3	935.9	949.1
12.5°	1003.3	1014.2	1053.9	1051.5	1053.9	1014.2	1003.3	955.2	922.6	916.6	919.0
15°	1078.0	1081.6	1090.1	1091.3	1090.1	1081.6	1078.0	1058.8	961.2	919.0	905.8
17.5°	1085.3	1086.5	1092.5	1092.5	1092.5	1086.5	1085.3	1076.8	1044.3	987.7	913.0
20°	1079.2	1081.6	1093.7	1096.1	1093.7	1081.6	1079.2	1068.4	1050.3	1029.8	973.2
22.5°	1076.8	1081.6	1091.3	1090.1	1091.3	1081.6	1076.8	1060.0	1044.3	1029.8	1007.0
25°	1064.8	1064.8	1066.0	1067.2	1066.0	1064.8	1064.8	1051.5	1020.2	1016.6	1003.3
27.5°	1039.5	1041.9	1049.1	1047.9	1049.1	1041.9	1039.5	1034.7	1000.9	997.3	987.7
30°	1016.6	1014.2	1008.2	1003.3	1008.2	1014.2	1016.6	1009.4	975.6	966.0	968.4
32.5°	978.1	972.0	966.0	962.4	966.0	972.0	978.1	975.6	950.4	937.1	939.5
35°	932.3	933.5	932.3	928.7	932.3	933.5	932.3	934.7	919.0	907.0	905.8
37.5°	899.8	902.2	901.0	896.1	901.0	902.2	899.8	897.4	875.7	872.1	874.5
40°	866.0	867.2	866.0	862.4	866.0	867.2	866.0	861.2	831.1	832.3	840.7
42.5°	833.5	832.3	828.7	826.3	828.7	832.3	833.5	826.3	787.7	784.1	799.8
45°	796.2	797.4	790.2	786.5	790.2	797.4	796.2	791.4	751.6	742.0	752.8
47.5°	758.8	758.8	752.8	749.2	752.8	758.8	758.8	752.8	710.7	701.0	707.0
50°	719.1	717.9	709.5	708.2	709.5	717.9	719.1	715.5	670.9	662.5	662.5
52.5°	673.3	673.3	674.5	676.9	674.5	673.3	673.3	674.5	634.8	626.3	623.9
55°	633.6	634.8	643.2	645.6	643.2	634.8	633.6	633.6	597.4	589.0	584.2
57.5°	592.6	592.6	598.6	598.6	598.6	592.6	592.6	590.2	555.3	548.0	545.6
60°	545.6	548.0	552.9	551.7	552.9	548.0	545.6	543.2	513.1	508.3	499.9
62.5°	496.3	498.7	499.9	497.5	499.9	498.7	496.3	489.0	471.0	467.3	456.5
65°	444.5	446.9	448.1	445.7	448.1	446.9	444.5	440.8	427.6	421.6	411.9
67.5°	391.5	390.3	389.1	393.9	389.1	390.3	391.5	386.6	378.2	373.4	360.1
70°	337.3	337.3	336.1	338.5	336.1	337.3	337.3	333.6	328.8	325.2	313.2
72.5°	279.4	278.2	283.1	279.4	283.1	278.2	279.4	278.2	275.8	272.2	260.2
75°	222.8	225.2	222.8	226.4	222.8	225.2	222.8	224.0	222.8	220.4	212.0
77.5°	169.8	172.2	169.8	169.8	169.8	172.2	169.8	171.0	171.0	171.0	163.8
80°	120.4	119.2	119.2	118.0	119.2	119.2	120.4	120.4	121.7	119.2	116.8
82.5°	77.1	75.9	75.9	78.3	75.9	75.9	77.1	78.3	75.9	75.9	75.9
85°	42.2	43.4	41.0	41.0	41.0	43.4	42.2	39.7	42.2	42.2	41.0
87.5°	15.7	14.5	14.5	14.5	14.5	14.5	15.7	16.9	16.9	16.9	18.1
90°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.5	16.8	18.9	16.2
92.5°	47.1	45.3	37.7	30.3	37.7	45.3	47.1	66.8	93.1	106.2	93.3
95°	160.1	154.4	131.7	109.0	131.7	154.4	160.1	210.3	277.2	310.6	262.3
97.5°	369.6	358.8	315.6	272.4	315.6	358.8	369.6	401.3	443.7	464.8	384.3
100°	519.1	506.3	454.7	403.2	454.7	506.3	519.1	516.8	513.7	512.2	422.9
102.5°	646.7	635.7	591.6	547.4	591.6	635.7	646.7	606.3	552.5	525.6	435.0
105°	795.7	789.8	766.1	742.3	766.1	789.8	795.7	705.1	584.4	524.0	436.4
107.5°	873.1	874.5	880.2	886.0	880.2	874.5	873.1	746.8	578.4	494.2	416.9
110°	893.0	899.2	923.9	948.6	923.9	899.2	893.0	751.8	563.5	469.4	399.7



TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	880.3	889.8	927.8	965.7	927.8	889.8	880.3	735.9	543.2	446.9	384.7
115°	837.4	850.5	903.1	955.8	903.1	850.5	837.4	698.2	512.6	419.8	367.5
117.5°	778.0	792.6	851.0	909.4	851.0	792.6	778.0	652.4	484.9	401.2	356.7
120°	738.0	752.3	808.9	865.7	808.9	752.3	738.0	623.3	470.2	393.7	353.0
122.5°	698.1	712.1	768.1	824.0	768.1	712.1	698.1	594.8	456.9	388.0	351.1
125°	645.2	658.1	709.6	761.2	709.6	658.1	645.2	557.4	440.4	381.8	349.5
127.5°	602.7	613.6	657.1	700.6	657.1	613.6	602.7	527.3	426.9	376.6	348.7
130°	576.0	586.0	626.2	666.3	626.2	586.0	576.0	508.9	419.3	374.6	349.1
132.5°	553.1	562.1	598.1	634.0	598.1	562.1	553.1	493.0	413.0	372.9	349.5
135°	520.8	528.6	559.6	590.6	559.6	528.6	520.8	470.6	403.5	369.9	349.2
137.5°	497.0	503.3	528.8	554.2	528.8	503.3	497.0	454.4	397.7	369.4	351.3
140°	477.9	483.8	507.5	531.3	507.5	483.8	477.9	441.2	392.2	367.7	351.7
142.5°	464.5	469.6	490.0	510.4	490.0	469.6	464.5	432.2	389.2	367.7	353.0
145°	444.4	448.2	463.7	479.2	463.7	448.2	444.4	418.0	382.8	365.2	353.0
147.5°	427.5	430.7	443.5	456.3	443.5	430.7	427.5	406.7	379.0	365.2	355.4
150°	417.8	420.4	430.8	441.2	430.8	420.4	417.8	400.3	376.9	365.2	356.7
152.5°	410.1	412.0	419.9	427.8	419.9	412.0	410.1	395.2	375.2	365.2	357.5
155°	400.9	402.2	407.4	412.6	407.4	402.2	400.9	389.1	373.2	365.2	359.3
157.5°	393.0	393.9	397.6	401.2	397.6	393.9	393.0	383.8	371.4	365.2	361.2
160°	389.1	389.5	391.6	393.7	391.6	389.5	389.1	381.1	370.5	365.2	362.0
162.5°	385.3	385.8	387.8	389.8	387.8	385.8	385.3	378.6	369.7	365.2	362.9
165°	379.6	380.1	382.2	384.3	382.2	380.1	379.6	374.8	368.4	365.2	364.2
167.5°	377.1	377.3	378.2	379.1	378.2	377.3	377.1	374.0	369.8	367.7	366.8
170°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	374.0	369.8	367.7	367.6
172.5°	375.1	374.9	374.1	373.4	374.1	374.9	375.1	372.6	369.3	367.7	367.7
175°	372.4	372.4	372.4	372.4	372.4	372.4	372.4	370.8	368.7	367.7	368.2
177.5°	371.9	371.6	370.8	369.9	370.8	371.6	371.9	370.7	369.0	368.2	368.6
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1257.5	1263.5	1267.1	1272.0	1284.0
5°	1209.3	1232.2	1239.4	1257.5	1279.2
7.5°	1103.3	1173.2	1192.5	1235.8	1269.5
10°	1000.9	1070.8	1104.5	1206.9	1257.5
12.5°	949.1	990.1	1013.0	1156.3	1240.6
15°	916.6	945.5	962.4	1088.9	1221.4
17.5°	891.3	911.8	923.9	1022.6	1194.9
20°	875.7	885.3	896.1	974.4	1164.8
22.5°	864.8	858.8	867.2	940.7	1123.8
25°	857.6	834.7	844.4	914.2	1075.6
27.5°	863.6	813.0	816.7	890.1	1025.0
30°	864.8	786.5	787.7	864.8	968.4
32.5°	856.4	758.8	760.0	833.5	904.6
35°	835.9	726.3	725.1	797.4	817.9
37.5°	808.2	691.4	691.4	757.6	722.7
40°	774.5	656.5	660.1	705.8	638.4
42.5°	733.5	619.1	623.9	637.2	575.8
45°	689.0	583.0	586.6	538.4	527.6
47.5°	639.6	545.6	546.8	446.9	511.9
50°	580.6	507.1	502.3	383.0	510.7
52.5°	528.8	464.9	450.5	346.9	463.7
55°	478.2	420.4	389.1	319.2	430.0
57.5°	433.6	362.6	332.4	286.7	422.8
60°	392.7	305.9	283.1	251.7	387.8
62.5°	358.9	263.8	259.0	227.7	351.7
65°	322.8	234.9	233.7	207.2	298.7
67.5°	287.9	215.6	214.4	187.9	227.7
70°	250.5	195.1	192.7	167.4	168.6
72.5°	212.0	172.2	169.8	150.6	139.7
75°	173.4	145.7	144.5	131.3	113.2
77.5°	136.1	115.6	118.0	106.0	83.1
80°	97.6	84.3	86.7	75.9	62.6
82.5°	65.0	55.4	57.8	48.2	42.2
85°	36.1	31.3	32.5	25.3	19.3
87.5°	16.9	14.5	14.5	9.6	6.0
90°	10.9	7.0	6.5	4.5	2.5
92.5°	67.4	47.9	43.7	26.8	10.0
95°	165.7	93.3	85.6	54.7	23.8
97.5°	223.3	102.5	95.7	68.5	41.2
100°	244.2	110.3	104.1	79.3	54.6
102.5°	253.8	118.0	112.2	89.1	66.0
105°	260.9	129.4	124.5	105.0	85.4
107.5°	262.3	146.2	141.6	123.5	105.3
110°	260.3	155.6	151.5	135.1	118.7



TEST NUMBER: P934351

CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	260.3	167.1	163.2	147.5	131.9
115°	262.7	184.2	180.6	166.1	151.7
117.5°	267.6	200.8	197.5	184.4	171.3
120°	271.6	210.5	207.4	195.0	182.7
122.5°	277.3	221.9	218.8	206.4	193.9
125°	285.0	236.6	233.8	222.4	211.0
127.5°	292.7	250.8	247.9	236.4	224.9
130°	298.3	260.2	257.1	244.8	232.4
132.5°	302.9	267.9	264.8	252.5	240.1
135°	307.9	276.8	274.0	262.7	251.5
137.5°	315.3	288.2	285.4	274.3	263.1
140°	319.8	295.9	293.3	283.1	272.9
142.5°	323.6	301.6	299.2	289.7	280.2
145°	328.7	310.4	308.3	300.0	291.7
147.5°	335.9	321.3	319.3	311.2	303.1
150°	339.7	327.0	325.1	317.9	310.6
152.5°	342.2	330.7	329.3	323.8	318.2
155°	347.6	338.9	337.8	333.8	329.7
157.5°	353.1	347.1	346.1	342.1	338.1
160°	355.6	350.8	349.9	346.9	343.8
162.5°	358.2	354.8	354.2	351.9	349.5
165°	362.1	360.5	359.9	357.8	355.7
167.5°	365.0	363.7	363.4	362.4	361.4
170°	367.5	367.5	367.2	366.2	365.2
172.5°	367.7	367.7	367.6	367.5	367.2
175°	369.2	369.9	369.9	369.9	369.9
177.5°	369.4	369.9	369.9	369.9	369.9
180°	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934351  
 CATALOG NUMBER: SQ4-FA-050U-075D-930-1D-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	12.67	13.61	13.56	14.52	15.67	15.50	16.44	16.38	17.34	18.50
	3H	13.16	14.00	14.06	14.91	16.09	16.85	17.69	17.75	18.60	19.78
	4H	13.35	14.15	14.27	15.07	16.26	17.30	18.09	18.21	19.01	20.20
	6H	13.48	14.21	14.40	15.13	16.34	17.58	18.31	18.51	19.24	20.44
	8H	13.48	14.18	14.41	15.12	16.32	17.66	18.36	18.59	19.30	20.50
	12H	13.45	14.12	14.39	15.05	16.28	17.70	18.36	18.64	19.30	20.53
4H	2H	13.72	14.51	14.63	15.43	16.62	15.92	16.71	16.84	17.63	18.82
	3H	14.75	15.41	15.68	16.36	17.57	17.43	18.09	18.36	19.04	20.25
	4H	15.03	15.63	15.97	16.58	17.81	17.96	18.56	18.90	19.51	20.74
	6H	15.16	15.68	16.11	16.65	17.88	18.33	18.85	19.28	19.82	21.05
	8H	15.17	15.65	16.12	16.62	17.86	18.43	18.92	19.39	19.89	21.13
	12H	15.14	15.58	16.11	16.56	17.80	18.49	18.93	19.47	19.91	21.16
8H	4H	15.49	15.97	16.44	16.94	18.18	18.09	18.58	19.05	19.54	20.78
	6H	15.75	16.15	16.73	17.16	18.40	18.53	18.93	19.51	19.94	21.18
	8H	15.80	16.15	16.79	17.15	18.40	18.68	19.04	19.67	20.03	21.29
	12H	15.78	16.10	16.78	17.08	18.39	18.78	19.09	19.77	20.08	21.39
12H	4H	15.50	15.94	16.47	16.92	18.17	18.06	18.50	19.03	19.48	20.73
	6H	15.81	16.17	16.80	17.16	18.42	18.53	18.88	19.52	19.88	21.14
	8H	15.88	16.20	16.88	17.19	18.49	18.69	19.00	19.68	19.99	21.30