

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: P935306

Luminaire Tested: SQ4-FA-100U-100D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

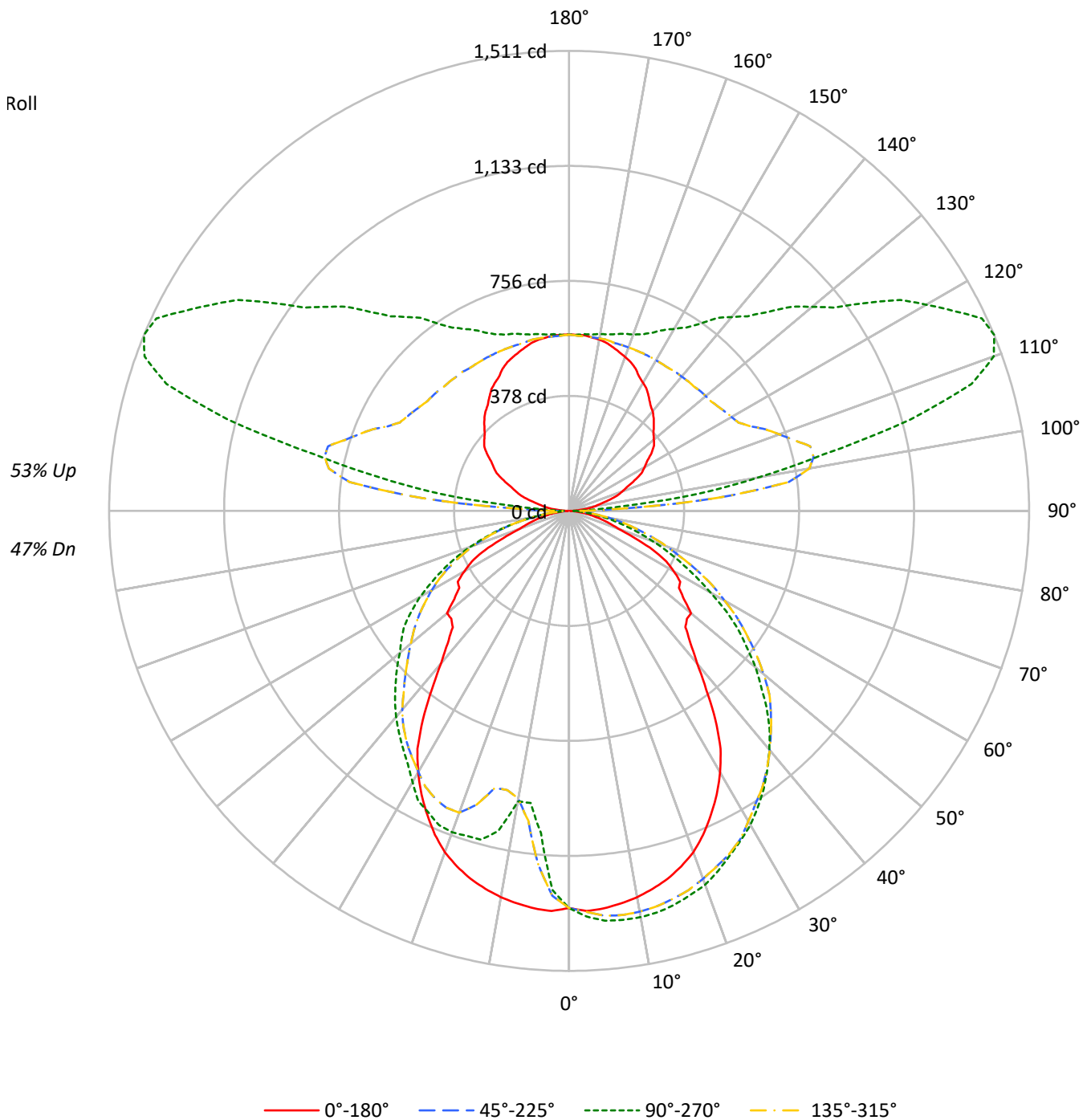
Test Method: LM-79-2019  
Report Number: P935306  
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-B50-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7136.7 lumens  
Efficiency: N/A  
Efficacy: 123.0 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): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12103	12103	12103	12103
5°	12181	12218	12181	9607
10°	12087	12036	12087	8604
15°	11941	11774	11941	9832
20°	11677	11466	11677	9852
25°	11153	11016	11153	9643
30°	10480	10642	10480	9186
35°	9328	10169	9328	8682
40°	7760	9611	7760	8301
45°	6920	8959	6920	7864
50°	7334	8182	7334	7424
55°	6882	7344	6882	7170
60°	7067	6237	7067	6567
65°	6379	5155	6379	5763
70°	4387	4110	4387	4832
75°	3804	3037	3804	3637
80°	3005	2009	3005	2188
85°	1631	1062	1631	903

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10627 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	1.6
10°-20°	334.3	4.7
20°-30°	516.8	7.2
30°-40°	616.9	8.6
40°-50°	620.5	8.7
50°-60°	539.9	7.6
60°-70°	382.8	5.4
70°-80°	202.5	2.8
80°-90°	52.7	0.7
90°-100°	282.1	4.0
100°-110°	741.8	10.4
110°-120°	769.2	10.8
120°-130°	617.0	8.6
130°-140°	484.1	6.8
140°-150°	371.6	5.2
150°-160°	267.6	3.7
160°-170°	163.7	2.3
170°-180°	55.3	0.8
0°-30°	968.8	13.6
0°-40°	1585.7	22.2
0°-60°	2746.2	38.5
0°-90°	3384.2	47.4
90°-120°	1793.2	25.1
90°-150°	3265.8	45.8
90°-180°	3752.0	52.6
0°-180°	7136.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1304	1304	1304	1304	1304	
5°	1311	1351	1311	1062	1311	124
15°	1251	1339	1251	1118	1251	352
25°	1102	1249	1102	1093	1102	506
35°	838	1114	838	952	838	518
45°	540	918	540	806	540	433
55°	441	678	441	662	441	405
65°	306	408	306	457	306	292
75°	116	194	116	232	116	122
85°	20	49	20	42	20	27
90°	4	15	4	15	4	4
95°	37	170	37	170	37	41
105°	134	1162	134	1162	134	142
115°	237	1496	237	1496	237	234
125°	330	1191	330	1191	330	293
135°	394	924	394	924	394	304
145°	456	750	456	750	456	286
155°	516	646	516	646	516	237
165°	557	601	557	601	557	157
175°	579	583	579	583	579	55
180°	579	579	579	579	579	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1315.4	1315.4	1322.9	1325.3	1325.3	1321.6	1318.0	1321.6	1332.7	1336.5	1335.2
5°	1310.6	1320.4	1334.0	1336.5	1338.9	1337.7	1335.2	1337.7	1350.0	1352.5	1353.7
7.5°	1300.7	1319.2	1336.5	1340.2	1343.8	1340.2	1338.9	1341.4	1353.7	1356.2	1356.2
10°	1288.4	1314.2	1334.0	1336.5	1340.2	1336.5	1336.5	1341.4	1353.7	1356.2	1357.5
12.5°	1271.1	1306.9	1325.3	1327.9	1332.7	1331.5	1330.3	1335.2	1347.6	1350.0	1350.0
15°	1251.3	1293.3	1310.6	1313.0	1321.6	1319.2	1319.2	1324.1	1337.7	1341.4	1340.2
17.5°	1224.2	1276.0	1295.7	1299.5	1305.6	1304.3	1305.6	1310.6	1322.9	1325.3	1326.6
20°	1193.3	1252.6	1276.0	1279.7	1285.8	1285.8	1285.8	1292.0	1304.3	1309.3	1309.3
22.5°	1151.3	1227.8	1252.6	1255.0	1262.4	1262.4	1264.9	1273.5	1284.6	1285.8	1285.8
25°	1102.0	1200.8	1221.7	1229.1	1236.5	1240.2	1243.9	1248.9	1252.6	1251.3	1252.6
27.5°	1050.2	1166.2	1193.3	1198.2	1208.1	1211.9	1216.7	1218.0	1219.2	1222.9	1220.5
30°	992.2	1118.0	1158.7	1163.7	1179.7	1182.2	1177.3	1179.7	1185.9	1188.4	1190.9
32.5°	926.7	1046.5	1122.9	1134.1	1148.9	1141.4	1140.2	1144.0	1153.9	1153.9	1156.3
35°	837.9	991.0	1089.7	1099.5	1110.6	1102.0	1106.9	1108.2	1114.4	1118.0	1116.8
37.5°	740.4	942.8	1055.1	1062.5	1071.1	1060.0	1067.5	1071.1	1076.1	1073.6	1073.6
40°	654.1	867.5	1014.4	1019.3	1026.7	1018.1	1025.4	1028.0	1030.4	1028.0	1026.7
42.5°	589.9	784.8	971.2	977.3	972.4	978.6	981.1	986.0	982.3	977.3	977.3
45°	540.5	762.6	924.3	931.7	924.3	934.2	937.8	937.8	926.7	924.3	923.1
47.5°	524.4	718.2	877.4	877.4	873.7	886.0	892.3	883.6	872.4	868.8	868.8
50°	523.2	668.8	813.2	808.3	825.6	840.4	834.2	825.6	817.0	803.3	803.3
52.5°	475.1	608.4	730.6	749.1	776.2	784.8	774.9	766.3	751.5	745.3	740.4
55°	440.6	545.5	655.3	692.3	720.7	731.8	713.3	704.6	682.4	678.7	676.2
57.5°	433.2	454.1	586.2	633.1	667.6	666.4	655.3	639.2	620.7	617.0	615.8
60°	397.3	328.2	512.1	567.7	603.5	599.7	589.9	575.1	557.8	555.4	552.8
62.5°	360.3	238.2	428.2	491.2	541.7	540.5	531.9	509.7	497.4	491.2	486.2
65°	306.1	199.9	304.8	408.4	481.3	483.7	465.2	449.2	435.6	428.2	426.9
67.5°	233.2	162.9	206.0	340.6	423.3	420.8	397.3	389.9	372.7	368.9	361.6
70°	172.8	108.6	143.2	276.5	366.5	360.3	341.8	333.2	317.2	308.5	303.6
72.5°	143.2	87.6	104.9	214.7	308.5	301.1	285.1	275.2	261.6	254.2	249.3
75°	116.0	92.6	80.2	159.2	250.5	245.5	230.8	220.9	209.8	199.9	201.2
77.5°	85.2	86.4	64.2	117.2	198.7	191.3	182.6	170.3	165.3	155.5	155.5
80°	64.2	67.9	48.1	80.2	143.2	143.2	135.7	127.1	118.4	113.6	113.6
82.5°	43.2	43.2	35.8	50.6	97.5	93.8	88.8	86.4	81.4	79.0	79.0
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.8	49.3	50.6
87.5°	6.2	11.1	13.5	17.3	27.2	28.4	29.6	29.6	29.6	30.8	30.8
90°	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7	14.8	14.8
92.5°	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6	73.8	70.9
95°	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0	250.6	241.7
97.5°	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0	578.4	561.5
100°	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7	812.3	792.1
102.5°	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9	1012.0	994.7
105°	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4	1245.1	1235.9
107.5°	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7	1366.3	1368.6
110°	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5	1397.4	1407.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4	1377.6	1392.4
115°	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6	1310.4	1331.0
117.5°	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0	1217.6	1240.4
120°	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4	1155.0	1177.2
122.5°	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6	1092.4	1114.3
125°	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3	1009.7	1029.8
127.5°	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3	943.2	960.2
130°	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3	901.3	917.0
132.5°	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5	865.5	879.6
135°	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3	815.0	827.2
137.5°	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1	777.7	787.6
140°	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3	747.9	757.1
142.5°	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3	726.8	734.9
145°	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1	695.4	701.4
147.5°	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5	669.0	674.1
150°	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3	653.8	657.8
152.5°	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3	641.8	644.8
155°	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8	627.4	629.4
157.5°	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5	614.9	616.3
160°	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4	608.8	609.6
162.5°	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4	602.9	603.6
165°	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6	594.0	594.9
167.5°	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2	590.1	590.5
170°	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2	590.1	590.1
172.5°	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1	587.0	586.7
175°	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3	582.7	582.7
177.5°	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0	582.0	581.6
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1337.7	1334.0	1337.7	1335.2	1336.5	1332.7	1321.6	1318.0	1321.6	1325.3	1325.3
5°	1353.7	1351.3	1353.7	1353.7	1352.5	1350.0	1337.7	1335.2	1337.7	1338.9	1336.5
7.5°	1358.7	1355.0	1358.7	1356.2	1356.2	1353.7	1341.4	1338.9	1340.2	1343.8	1340.2
10°	1358.7	1355.0	1358.7	1357.5	1356.2	1353.7	1341.4	1336.5	1336.5	1340.2	1336.5
12.5°	1352.5	1350.0	1352.5	1350.0	1350.0	1347.6	1335.2	1330.3	1331.5	1332.7	1327.9
15°	1342.6	1338.9	1342.6	1340.2	1341.4	1337.7	1324.1	1319.2	1319.2	1321.6	1313.0
17.5°	1327.9	1322.9	1327.9	1326.6	1325.3	1322.9	1310.6	1305.6	1304.3	1305.6	1299.5
20°	1310.6	1306.9	1310.6	1309.3	1309.3	1304.3	1292.0	1285.8	1285.8	1285.8	1279.7
22.5°	1283.4	1279.7	1283.4	1285.8	1285.8	1284.6	1273.5	1264.9	1262.4	1262.4	1255.0
25°	1252.6	1248.9	1252.6	1252.6	1251.3	1252.6	1248.9	1243.9	1240.2	1236.5	1229.1
27.5°	1222.9	1220.5	1222.9	1220.5	1222.9	1219.2	1218.0	1216.7	1211.9	1208.1	1198.2
30°	1193.3	1190.9	1193.3	1190.9	1188.4	1185.9	1179.7	1177.3	1182.2	1179.7	1163.7
32.5°	1156.3	1153.9	1156.3	1156.3	1153.9	1153.9	1144.0	1140.2	1141.4	1148.9	1134.1
35°	1118.0	1114.4	1118.0	1116.8	1118.0	1114.4	1108.2	1106.9	1102.0	1110.6	1099.5
37.5°	1073.6	1069.9	1073.6	1073.6	1073.6	1076.1	1071.1	1067.5	1060.0	1071.1	1062.5
40°	1028.0	1023.0	1028.0	1026.7	1028.0	1030.4	1028.0	1025.4	1018.1	1026.7	1019.3
42.5°	976.1	974.9	976.1	977.3	977.3	982.3	986.0	981.1	978.6	972.4	977.3
45°	920.6	918.1	920.6	923.1	924.3	926.7	937.8	937.8	934.2	924.3	931.7
47.5°	861.3	855.2	861.3	868.8	868.8	872.4	883.6	892.3	886.0	873.7	877.4
50°	798.4	799.7	798.4	803.3	803.3	817.0	825.6	834.2	840.4	825.6	808.3
52.5°	736.7	735.5	736.7	740.4	745.3	751.5	766.3	774.9	784.8	776.2	749.1
55°	675.0	677.5	675.0	676.2	678.7	682.4	704.6	713.3	731.8	720.7	692.3
57.5°	613.4	609.6	613.4	615.8	617.0	620.7	639.2	655.3	666.4	667.6	633.1
60°	541.7	536.8	541.7	552.8	555.4	557.8	575.1	589.9	599.7	603.5	567.7
62.5°	478.8	470.2	478.8	486.2	491.2	497.4	509.7	531.9	540.5	541.7	491.2
65°	412.2	408.4	412.2	426.9	428.2	435.6	449.2	465.2	483.7	481.3	408.4
67.5°	351.7	351.7	351.7	361.6	368.9	372.7	389.9	397.3	420.8	423.3	340.6
70°	296.2	295.0	296.2	303.6	308.5	317.2	333.2	341.8	360.3	366.5	276.5
72.5°	243.1	241.9	243.1	249.3	254.2	261.6	275.2	285.1	301.1	308.5	214.7
75°	196.2	193.7	196.2	201.2	199.9	209.8	220.9	230.8	245.5	250.5	159.2
77.5°	150.6	150.6	150.6	155.5	155.5	165.3	170.3	182.6	191.3	198.7	117.2
80°	112.3	111.1	112.3	113.6	113.6	118.4	127.1	135.7	143.2	143.2	80.2
82.5°	79.0	76.5	79.0	79.0	79.0	81.4	86.4	88.8	93.8	97.5	50.6
85°	49.3	49.3	49.3	50.6	49.3	51.8	53.1	55.6	55.6	53.1	30.8
87.5°	32.1	30.8	32.1	30.8	30.8	29.6	29.6	29.6	28.4	27.2	17.3
90°	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4	17.1	10.8
92.5°	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0	105.4	75.0
95°	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4	259.4	146.1
97.5°	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3	349.4	160.5
100°	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7	382.2	172.5
102.5°	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7	397.2	184.6
105°	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8	408.3	202.4
107.5°	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4	410.4	228.8
110°	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5	407.2	243.6





TEST NUMBER: P935306

CATALOG NUMBER: SQ4-FA-100U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0	407.4	261.4
115°	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1	411.1	288.2
117.5°	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2	418.8	314.3
120°	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5	425.0	329.4
122.5°	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5	433.9	347.4
125°	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0	446.0	370.2
127.5°	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5	458.0	392.4
130°	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5	466.8	407.1
132.5°	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0	473.9	419.2
135°	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5	481.8	433.2
137.5°	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8	493.3	451.0
140°	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4	500.5	463.1
142.5°	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4	506.5	472.0
145°	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5	514.3	485.6
147.5°	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2	525.7	502.7
150°	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3	531.6	511.6
152.5°	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5	535.5	517.4
155°	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4	544.1	530.3
157.5°	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2	552.6	543.1
160°	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5	556.5	548.9
162.5°	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9	560.6	555.2
165°	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8	566.6	564.0
167.5°	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9	571.2	569.2
170°	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3	575.1	575.0
172.5°	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1	577.7	578.9
177.5°	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7	578.0	578.9
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935306  
 CATALOG NUMBER: SQ4-FA-100U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1322.9	1315.4	1315.4	1303.1	1298.2	1294.5	1288.4	1269.9	1264.9	1260.0	1267.3
5°	1334.0	1320.4	1310.6	1288.4	1269.9	1262.4	1239.0	1194.6	1164.9	1142.7	1130.4
7.5°	1336.5	1319.2	1300.7	1266.1	1221.7	1202.0	1130.4	1049.0	1026.7	1006.9	994.6
10°	1334.0	1314.2	1288.4	1236.5	1131.6	1097.1	1025.4	972.4	958.8	955.1	958.8
12.5°	1325.3	1306.9	1271.1	1184.7	1037.9	1014.4	972.4	941.6	939.1	945.3	978.6
15°	1310.6	1293.3	1251.3	1115.6	986.0	968.7	939.1	928.0	941.6	984.7	1084.7
17.5°	1295.7	1276.0	1224.2	1047.7	946.5	934.2	913.2	935.4	1011.9	1069.9	1103.2
20°	1276.0	1252.6	1193.3	998.4	918.1	907.0	897.1	997.1	1055.1	1076.1	1094.6
22.5°	1252.6	1227.8	1151.3	963.8	888.5	879.8	886.0	1031.7	1055.1	1069.9	1086.0
25°	1221.7	1200.8	1102.0	936.6	865.1	855.2	878.6	1028.0	1041.5	1045.2	1077.3
27.5°	1193.3	1166.2	1050.2	912.0	836.7	832.9	884.8	1011.9	1021.8	1025.4	1060.0
30°	1158.7	1118.0	992.2	886.0	807.1	805.9	886.0	992.2	989.7	999.6	1034.1
32.5°	1122.9	1046.5	926.7	854.0	778.7	777.5	877.4	962.6	960.1	973.7	999.6
35°	1089.7	991.0	837.9	817.0	742.9	744.1	856.4	928.0	929.2	941.6	957.6
37.5°	1055.1	942.8	740.4	776.2	708.3	708.3	828.0	895.9	893.5	897.1	919.3
40°	1014.4	867.5	654.1	723.1	676.2	672.6	793.5	861.3	852.7	851.5	882.3
42.5°	971.2	784.8	589.9	652.8	639.2	634.3	751.5	819.4	803.3	807.1	846.6
45°	924.3	762.6	540.5	551.6	600.9	597.3	705.8	771.3	760.2	770.1	810.8
47.5°	877.4	718.2	524.4	457.8	560.2	559.0	655.3	724.4	718.2	728.1	771.3
50°	813.2	668.8	523.2	392.5	514.6	519.5	594.8	678.7	678.7	687.3	733.0
52.5°	730.6	608.4	475.1	355.4	461.5	476.3	541.7	639.2	641.7	650.3	691.1
55°	655.3	545.5	440.6	327.0	398.6	430.7	489.9	598.5	603.5	612.1	649.1
57.5°	586.2	454.1	433.2	293.7	340.6	371.5	444.2	559.0	561.5	568.9	604.7
60°	512.1	328.2	397.3	257.9	290.0	313.5	402.3	512.1	520.8	525.7	556.6
62.5°	428.2	238.2	360.3	233.2	265.3	270.3	367.7	467.7	478.8	482.5	501.0
65°	304.8	199.9	306.1	212.3	239.4	240.6	330.7	422.1	431.9	438.0	451.7
67.5°	206.0	162.9	233.2	192.5	219.7	220.9	295.0	368.9	382.6	387.5	396.1
70°	143.2	108.6	172.8	171.6	197.4	199.9	256.7	320.8	333.2	336.9	341.8
72.5°	104.9	87.6	143.2	154.3	174.0	176.4	217.2	266.6	278.9	282.6	285.1
75°	80.2	92.6	116.0	134.5	148.0	149.3	177.7	217.2	225.8	228.3	229.5
77.5°	64.2	86.4	85.2	108.6	121.0	118.4	139.4	167.8	175.2	175.2	175.2
80°	48.1	67.9	64.2	77.7	88.8	86.4	99.9	119.7	122.2	124.6	123.4
82.5°	35.8	43.2	43.2	49.3	59.2	56.8	66.6	77.7	77.7	77.7	80.2
85°	22.2	24.7	19.7	25.9	33.3	32.1	37.0	41.9	43.2	43.2	40.7
87.5°	13.5	11.1	6.2	9.9	14.9	14.9	17.3	18.5	17.3	17.3	17.3
90°	10.1	7.0	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7
92.5°	68.4	41.9	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6
95°	134.0	85.6	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0
97.5°	149.8	107.1	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0
100°	162.8	124.1	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7
102.5°	175.5	139.4	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9
105°	194.7	164.2	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4
107.5°	221.7	193.2	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7
110°	237.1	211.5	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5



TEST NUMBER: P935306

CATALOG NUMBER: SQ4-FA-100U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	255.3	230.8	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4
115°	282.5	259.9	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6
117.5°	309.2	288.6	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0
120°	324.6	305.2	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4
122.5°	342.5	323.0	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6
125°	365.8	348.0	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3
127.5°	387.9	369.9	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3
130°	402.3	382.9	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3
132.5°	414.3	395.0	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5
135°	428.8	411.1	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3
137.5°	446.6	429.3	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1
140°	459.1	443.0	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3
142.5°	468.3	453.5	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3
145°	482.3	469.4	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1
147.5°	499.5	487.0	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5
150°	508.7	497.4	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3
152.5°	515.3	506.6	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3
155°	528.7	522.3	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8
157.5°	541.5	535.4	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5
160°	547.7	542.9	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4
162.5°	554.2	550.6	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4
165°	563.2	559.9	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6
167.5°	568.8	567.2	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2
170°	574.6	573.0	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2
172.5°	575.3	575.0	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1
175°	578.9	578.9	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3
177.5°	578.9	578.9	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935306  
 CATALOG NUMBER: SQ4-FA-100U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1258.8	1255.0	1260.0	1246.3	1260.0	1255.0	1258.8	1267.3	1260.0	1264.9	1269.9
5°	1104.5	1098.3	1078.6	1062.5	1078.6	1098.3	1104.5	1130.4	1142.7	1164.9	1194.6
7.5°	987.2	982.3	977.3	967.4	977.3	982.3	987.2	994.6	1006.9	1026.7	1049.0
10°	961.3	962.6	970.0	968.7	970.0	962.6	961.3	958.8	955.1	958.8	972.4
12.5°	1028.0	1039.1	1079.8	1077.3	1079.8	1039.1	1028.0	978.6	945.3	939.1	941.6
15°	1104.5	1108.2	1116.8	1118.0	1116.8	1108.2	1104.5	1084.7	984.7	941.6	928.0
17.5°	1111.8	1113.1	1119.3	1119.3	1119.3	1113.1	1111.8	1103.2	1069.9	1011.9	935.4
20°	1105.7	1108.2	1120.5	1122.9	1120.5	1108.2	1105.7	1094.6	1076.1	1055.1	997.1
22.5°	1103.2	1108.2	1118.0	1116.8	1118.0	1108.2	1103.2	1086.0	1069.9	1055.1	1031.7
25°	1090.9	1090.9	1092.1	1093.3	1092.1	1090.9	1090.9	1077.3	1045.2	1041.5	1028.0
27.5°	1064.9	1067.5	1074.8	1073.6	1074.8	1067.5	1064.9	1060.0	1025.4	1021.8	1011.9
30°	1041.5	1039.1	1032.9	1028.0	1032.9	1039.1	1041.5	1034.1	999.6	989.7	992.2
32.5°	1002.0	995.8	989.7	986.0	989.7	995.8	1002.0	999.6	973.7	960.1	962.6
35°	955.1	956.4	955.1	951.5	955.1	956.4	955.1	957.6	941.6	929.2	928.0
37.5°	921.9	924.3	923.1	918.1	923.1	924.3	921.9	919.3	897.1	893.5	895.9
40°	887.3	888.5	887.3	883.6	887.3	888.5	887.3	882.3	851.5	852.7	861.3
42.5°	854.0	852.7	849.0	846.6	849.0	852.7	854.0	846.6	807.1	803.3	819.4
45°	815.7	817.0	809.5	805.9	809.5	817.0	815.7	810.8	770.1	760.2	771.3
47.5°	777.5	777.5	771.3	767.6	771.3	777.5	777.5	771.3	728.1	718.2	724.4
50°	736.7	735.5	726.8	725.6	726.8	735.5	736.7	733.0	687.3	678.7	678.7
52.5°	689.9	689.9	691.1	693.5	691.1	689.9	689.9	691.1	650.3	641.7	639.2
55°	649.1	650.3	658.9	661.5	658.9	650.3	649.1	649.1	612.1	603.5	598.5
57.5°	607.1	607.1	613.4	613.4	613.4	607.1	607.1	604.7	568.9	561.5	559.0
60°	559.0	561.5	566.4	565.2	566.4	561.5	559.0	556.6	525.7	520.8	512.1
62.5°	508.4	510.9	512.1	509.7	512.1	510.9	508.4	501.0	482.5	478.8	467.7
65°	455.3	457.8	459.1	456.6	459.1	457.8	455.3	451.7	438.0	431.9	422.1
67.5°	401.1	399.8	398.6	403.5	398.6	399.8	401.1	396.1	387.5	382.6	368.9
70°	345.5	345.5	344.3	346.8	344.3	345.5	345.5	341.8	336.9	333.2	320.8
72.5°	286.3	285.1	290.0	286.3	290.0	285.1	286.3	285.1	282.6	278.9	266.6
75°	228.3	230.8	228.3	232.0	228.3	230.8	228.3	229.5	228.3	225.8	217.2
77.5°	174.0	176.4	174.0	174.0	174.0	176.4	174.0	175.2	175.2	175.2	167.8
80°	123.4	122.2	122.2	121.0	122.2	122.2	123.4	123.4	124.6	122.2	119.7
82.5°	79.0	77.7	77.7	80.2	77.7	77.7	79.0	80.2	77.7	77.7	77.7
85°	43.2	44.5	41.9	41.9	41.9	44.5	43.2	40.7	43.2	43.2	41.9
87.5°	16.1	14.9	14.9	14.9	14.9	14.9	16.1	17.3	17.3	17.3	18.5
90°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4
92.5°	73.8	70.9	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0
95°	250.6	241.7	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4
97.5°	578.4	561.5	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3
100°	812.3	792.1	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7
102.5°	1012.0	994.7	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7
105°	1245.1	1235.9	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8
107.5°	1366.3	1368.6	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4
110°	1397.4	1407.1	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5



TEST NUMBER: P935306

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1377.6	1392.4	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0
115°	1310.4	1331.0	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1
117.5°	1217.6	1240.4	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2
120°	1155.0	1177.2	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5
122.5°	1092.4	1114.3	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5
125°	1009.7	1029.8	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0
127.5°	943.2	960.2	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5
130°	901.3	917.0	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5
132.5°	865.5	879.6	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0
135°	815.0	827.2	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5
137.5°	777.7	787.6	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8
140°	747.9	757.1	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4
142.5°	726.8	734.9	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4
145°	695.4	701.4	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5
147.5°	669.0	674.1	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2
150°	653.8	657.8	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3
152.5°	641.8	644.8	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5
155°	627.4	629.4	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4
157.5°	614.9	616.3	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2
160°	608.8	609.6	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5
162.5°	602.9	603.6	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9
165°	594.0	594.9	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8
167.5°	590.1	590.5	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9
170°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3
172.5°	587.0	586.7	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1
177.5°	582.0	581.6	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935306  
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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1288.4	1294.5	1298.2	1303.1	1315.4
5°	1239.0	1262.4	1269.9	1288.4	1310.6
7.5°	1130.4	1202.0	1221.7	1266.1	1300.7
10°	1025.4	1097.1	1131.6	1236.5	1288.4
12.5°	972.4	1014.4	1037.9	1184.7	1271.1
15°	939.1	968.7	986.0	1115.6	1251.3
17.5°	913.2	934.2	946.5	1047.7	1224.2
20°	897.1	907.0	918.1	998.4	1193.3
22.5°	886.0	879.8	888.5	963.8	1151.3
25°	878.6	855.2	865.1	936.6	1102.0
27.5°	884.8	832.9	836.7	912.0	1050.2
30°	886.0	805.9	807.1	886.0	992.2
32.5°	877.4	777.5	778.7	854.0	926.7
35°	856.4	744.1	742.9	817.0	837.9
37.5°	828.0	708.3	708.3	776.2	740.4
40°	793.5	672.6	676.2	723.1	654.1
42.5°	751.5	634.3	639.2	652.8	589.9
45°	705.8	597.3	600.9	551.6	540.5
47.5°	655.3	559.0	560.2	457.8	524.4
50°	594.8	519.5	514.6	392.5	523.2
52.5°	541.7	476.3	461.5	355.4	475.1
55°	489.9	430.7	398.6	327.0	440.6
57.5°	444.2	371.5	340.6	293.7	433.2
60°	402.3	313.5	290.0	257.9	397.3
62.5°	367.7	270.3	265.3	233.2	360.3
65°	330.7	240.6	239.4	212.3	306.1
67.5°	295.0	220.9	219.7	192.5	233.2
70°	256.7	199.9	197.4	171.6	172.8
72.5°	217.2	176.4	174.0	154.3	143.2
75°	177.7	149.3	148.0	134.5	116.0
77.5°	139.4	118.4	121.0	108.6	85.2
80°	99.9	86.4	88.8	77.7	64.2
82.5°	66.6	56.8	59.2	49.3	43.2
85°	37.0	32.1	33.3	25.9	19.7
87.5°	17.3	14.9	14.9	9.9	6.2
90°	17.1	10.8	10.1	7.0	3.9
92.5°	105.4	75.0	68.4	41.9	15.5
95°	259.4	146.1	134.0	85.6	37.3
97.5°	349.4	160.5	149.8	107.1	64.4
100°	382.2	172.5	162.8	124.1	85.5
102.5°	397.2	184.6	175.5	139.4	103.3
105°	408.3	202.4	194.7	164.2	133.7
107.5°	410.4	228.8	221.7	193.2	164.8
110°	407.2	243.6	237.1	211.5	185.7



TEST NUMBER: P935306

CATALOG NUMBER: SQ4-FA-100U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	407.4	261.4	255.3	230.8	206.3
115°	411.1	288.2	282.5	259.9	237.3
117.5°	418.8	314.3	309.2	288.6	268.1
120°	425.0	329.4	324.6	305.2	285.9
122.5°	433.9	347.4	342.5	323.0	303.5
125°	446.0	370.2	365.8	348.0	330.3
127.5°	458.0	392.4	387.9	369.9	351.9
130°	466.8	407.1	402.3	382.9	363.6
132.5°	473.9	419.2	414.3	395.0	375.7
135°	481.8	433.2	428.8	411.1	393.6
137.5°	493.3	451.0	446.6	429.3	411.8
140°	500.5	463.1	459.1	443.0	426.9
142.5°	506.5	472.0	468.3	453.5	438.6
145°	514.3	485.6	482.3	469.4	456.4
147.5°	525.7	502.7	499.5	487.0	474.4
150°	531.6	511.6	508.7	497.4	486.0
152.5°	535.5	517.4	515.3	506.6	498.0
155°	544.1	530.3	528.7	522.3	515.9
157.5°	552.6	543.1	541.5	535.4	529.1
160°	556.5	548.9	547.7	542.9	538.1
162.5°	560.6	555.2	554.2	550.6	547.0
165°	566.6	564.0	563.2	559.9	556.7
167.5°	571.2	569.2	568.8	567.2	565.6
170°	575.1	575.0	574.6	573.0	571.5
172.5°	575.3	575.3	575.3	575.0	574.6
175°	577.7	578.9	578.9	578.9	578.9
177.5°	578.0	578.9	578.9	578.9	578.9
180°	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935306  
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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	13.21	14.05	14.19	15.04	16.35	16.01	16.85	16.99	17.84	19.15
	3H	13.69	14.44	14.68	15.44	16.77	17.34	18.10	18.33	19.10	20.43
	4H	13.88	14.59	14.88	15.60	16.93	17.78	18.49	18.78	19.50	20.83
	6H	14.00	14.65	15.01	15.66	17.01	18.06	18.71	19.07	19.72	21.07
	8H	14.00	14.62	15.02	15.65	16.99	18.13	18.75	19.15	19.78	21.12
	12H	13.97	14.56	14.99	15.58	16.95	18.16	18.75	19.19	19.77	21.14
4H	2H	14.24	14.95	15.24	15.95	17.29	16.42	17.13	17.43	18.13	19.47
	3H	15.26	15.85	16.28	16.89	18.24	17.91	18.51	18.93	19.54	20.89
	4H	15.54	16.08	16.56	17.10	18.48	18.43	18.98	19.46	20.00	21.37
	6H	15.66	16.13	16.70	17.18	18.55	18.79	19.26	19.83	20.30	21.67
	8H	15.66	16.10	16.70	17.14	18.53	18.89	19.33	19.93	20.37	21.75
	12H	15.63	16.02	16.69	17.08	18.47	18.94	19.33	20.00	20.39	21.78
8H	4H	15.98	16.42	17.02	17.46	18.84	18.56	18.99	19.59	20.03	21.42
	6H	16.24	16.60	17.30	17.69	19.07	18.98	19.34	20.05	20.43	21.81
	8H	16.29	16.60	17.35	17.67	19.07	19.13	19.45	20.20	20.52	21.92
	12H	16.27	16.55	17.34	17.61	19.05	19.22	19.50	20.30	20.56	22.01
12H	4H	15.99	16.38	17.04	17.44	18.83	18.52	18.91	19.58	19.97	21.36
	6H	16.30	16.62	17.37	17.69	19.09	18.98	19.30	20.05	20.37	21.77
	8H	16.37	16.65	17.44	17.71	19.15	19.14	19.42	20.21	20.48	21.92