

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: P934506

Luminaire Tested: SQ4-FA-050U-100D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

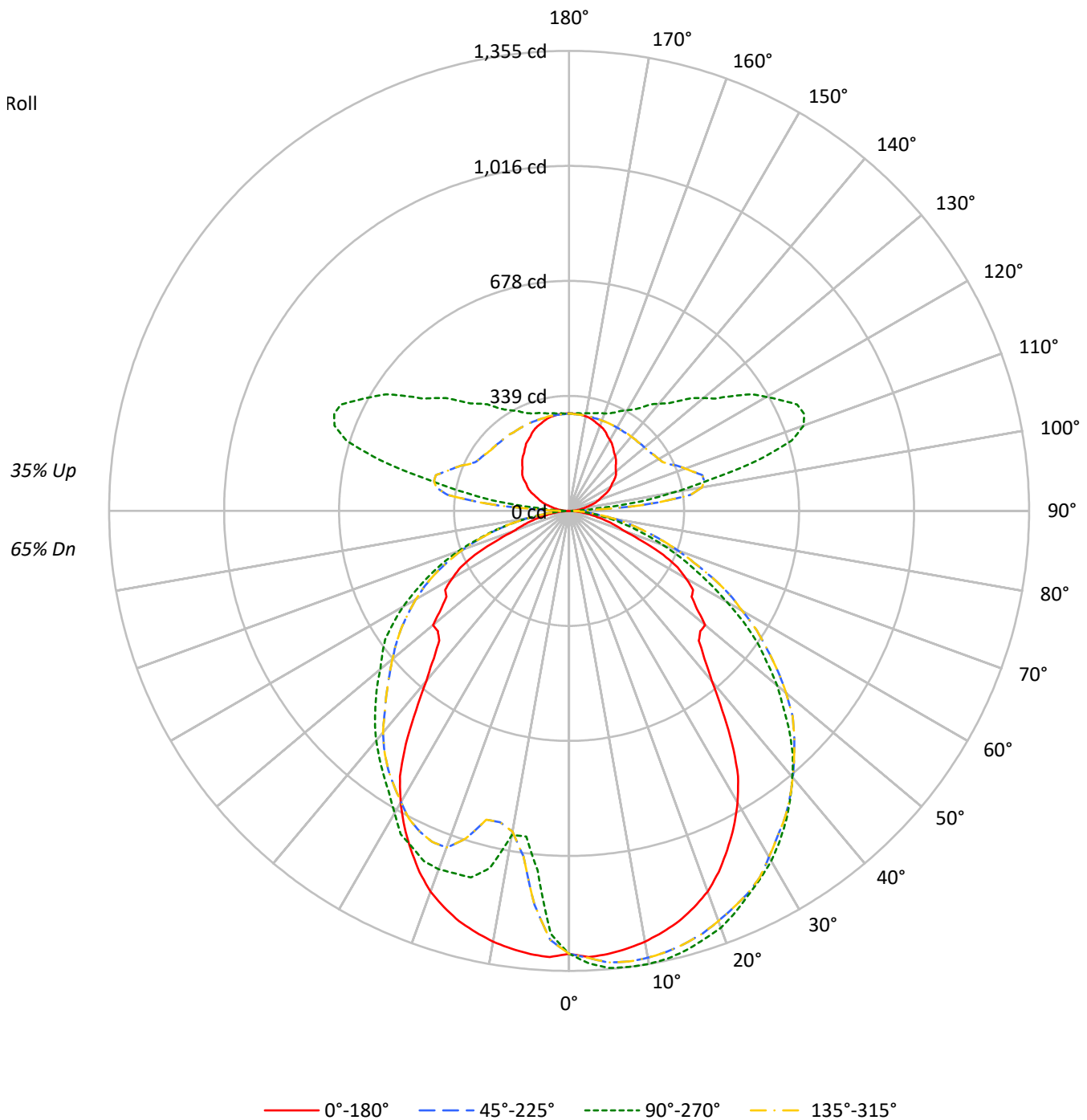
Test Method: LM-79-2019  
Report Number: P934506  
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-B50-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5242.5 lumens  
Efficiency: N/A  
Efficacy: 116.0 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: Semi-Direct  
  
Input Watts (W): 45.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





TEST NUMBER: P934506

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

**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	2.2
10°-20°	334.3	6.4
20°-30°	516.8	9.9
30°-40°	616.9	11.8
40°-50°	620.5	11.8
50°-60°	539.9	10.3
60°-70°	382.8	7.3
70°-80°	202.5	3.9
80°-90°	51.5	1.0
90°-100°	139.8	2.7
100°-110°	367.6	7.0
110°-120°	381.1	7.3
120°-130°	305.7	5.8
130°-140°	239.9	4.6
140°-150°	184.1	3.5
150°-160°	132.6	2.5
160°-170°	81.1	1.5
170°-180°	27.4	0.5
0°-30°	968.8	18.5
0°-40°	1585.7	30.2
0°-60°	2746.2	52.4
0°-90°	3383.1	64.5
90°-120°	888.5	16.9
90°-150°	1618.3	30.9
90°-180°	1859.0	35.5
0°-180°	5242.5	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°	2	7	2	7	2	2
95°	18	84	18	84	18	21
105°	66	576	66	576	66	70
115°	118	741	118	741	118	116
125°	164	590	164	590	164	145
135°	195	458	195	458	195	151
145°	226	372	226	372	226	142
155°	256	320	256	320	256	117
165°	276	298	276	298	276	78
175°	287	289	287	289	287	27
180°	287	287	287	287	287	



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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°	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7	7.3	7.3
92.5°	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8	36.6	35.1
95°	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0	124.1	119.7
97.5°	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2	286.6	278.2
100°	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8	402.6	392.6
102.5°	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2	501.5	492.9
105°	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8	617.0	612.4
107.5°	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2	677.1	678.2
110°	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0	692.5	697.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6	682.7	690.0
115°	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3	649.3	659.5
117.5°	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9	603.3	614.6
120°	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3	572.4	583.4
122.5°	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2	541.3	552.2
125°	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3	500.3	510.3
127.5°	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9	467.4	475.8
130°	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6	446.6	454.4
132.5°	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3	428.9	435.9
135°	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8	403.9	409.8
137.5°	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4	385.4	390.3
140°	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1	370.6	375.2
142.5°	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1	360.2	364.1
145°	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1	344.6	347.5
147.5°	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4	331.5	334.0
150°	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4	324.0	326.1
152.5°	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4	318.0	319.5
155°	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7	310.9	312.0
157.5°	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6	304.8	305.5
160°	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5	301.7	302.1
162.5°	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6	298.8	299.2
165°	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6	294.3	294.7
167.5°	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0	292.4	292.6
170°	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0	292.4	292.4
172.5°	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9	290.8	290.7
175°	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6	288.8	288.8
177.5°	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5	288.4	288.2
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



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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°	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6	8.5	5.4
92.5°	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3	52.2	37.2
95°	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3	128.5	72.4
97.5°	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9	173.1	79.5
100°	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8	189.3	85.5
102.5°	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3	196.8	91.4
105°	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4	202.3	100.3
107.5°	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4	203.3	113.4
110°	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0	201.8	120.7





TEST NUMBER: P934506

CATALOG NUMBER: SQ4-FA-050U-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°	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3	201.8	129.5
115°	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9	203.7	142.8
117.5°	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6	207.5	155.7
120°	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8	210.6	163.3
122.5°	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3	215.0	172.1
125°	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0	221.0	183.4
127.5°	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4	227.0	194.5
130°	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8	231.4	201.7
132.5°	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0	234.9	207.7
135°	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8	238.7	214.6
137.5°	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4	244.5	223.5
140°	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7	248.0	229.5
142.5°	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7	251.0	233.9
145°	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8	254.8	240.6
147.5°	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6	260.5	249.1
150°	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6	263.4	253.5
152.5°	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2	265.3	256.4
155°	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6	269.6	262.7
157.5°	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0	273.8	269.1
160°	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7	275.7	272.0
162.5°	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4	277.8	275.1
165°	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3	280.8	279.5
167.5°	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4	283.0	282.0
170°	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1	285.0	284.9
172.5°	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4	286.3	286.8
177.5°	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8	286.4	286.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934506

CATALOG NUMBER: SQ4-FA-050U-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°	5.0	3.5	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7
92.5°	33.9	20.7	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8
95°	66.4	42.4	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0
97.5°	74.2	53.1	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2
100°	80.7	61.5	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8
102.5°	87.0	69.1	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2
105°	96.5	81.4	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8
107.5°	109.8	95.7	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2
110°	117.5	104.7	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0



TEST NUMBER: P934506

CATALOG NUMBER: SQ4-FA-050U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	126.5	114.3	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6
115°	140.0	128.8	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3
117.5°	153.2	143.0	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9
120°	160.8	151.3	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3
122.5°	169.7	160.1	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2
125°	181.2	172.4	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3
127.5°	192.2	183.3	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9
130°	199.3	189.8	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6
132.5°	205.3	195.8	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3
135°	212.5	203.7	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8
137.5°	221.4	212.7	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4
140°	227.5	219.5	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1
142.5°	232.0	224.7	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1
145°	239.0	232.6	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1
147.5°	247.5	241.3	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4
150°	252.1	246.4	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4
152.5°	255.4	251.1	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4
155°	262.0	258.8	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7
157.5°	268.3	265.3	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6
160°	271.4	269.0	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5
162.5°	274.6	272.8	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6
165°	279.2	277.5	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6
167.5°	281.8	281.0	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0
170°	284.7	283.9	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0
172.5°	285.1	284.9	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9
175°	286.8	286.8	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6
177.5°	286.8	286.8	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934506  
 CATALOG NUMBER: SQ4-FA-050U-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°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6
92.5°	36.6	35.1	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3
95°	124.1	119.7	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3
97.5°	286.6	278.2	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9
100°	402.6	392.6	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8
102.5°	501.5	492.9	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3
105°	617.0	612.4	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4
107.5°	677.1	678.2	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4
110°	692.5	697.2	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	682.7	690.0	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3
115°	649.3	659.5	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9
117.5°	603.3	614.6	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6
120°	572.4	583.4	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8
122.5°	541.3	552.2	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3
125°	500.3	510.3	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0
127.5°	467.4	475.8	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4
130°	446.6	454.4	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8
132.5°	428.9	435.9	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0
135°	403.9	409.8	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8
137.5°	385.4	390.3	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4
140°	370.6	375.2	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7
142.5°	360.2	364.1	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7
145°	344.6	347.5	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8
147.5°	331.5	334.0	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6
150°	324.0	326.1	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6
152.5°	318.0	319.5	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2
155°	310.9	312.0	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6
157.5°	304.8	305.5	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0
160°	301.7	302.1	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7
162.5°	298.8	299.2	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4
165°	294.3	294.7	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3
167.5°	292.4	292.6	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4
170°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1
172.5°	290.8	290.7	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4
177.5°	288.4	288.2	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



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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°	8.5	5.4	5.0	3.5	2.0
92.5°	52.2	37.2	33.9	20.7	7.7
95°	128.5	72.4	66.4	42.4	18.5
97.5°	173.1	79.5	74.2	53.1	31.9
100°	189.3	85.5	80.7	61.5	42.3
102.5°	196.8	91.4	87.0	69.1	51.2
105°	202.3	100.3	96.5	81.4	66.2
107.5°	203.3	113.4	109.8	95.7	81.6
110°	201.8	120.7	117.5	104.7	92.0



TEST NUMBER: P934506

CATALOG NUMBER: SQ4-FA-050U-100D-B50-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	201.8	129.5	126.5	114.3	102.2
115°	203.7	142.8	140.0	128.8	117.6
117.5°	207.5	155.7	153.2	143.0	132.8
120°	210.6	163.3	160.8	151.3	141.7
122.5°	215.0	172.1	169.7	160.1	150.4
125°	221.0	183.4	181.2	172.4	163.6
127.5°	227.0	194.5	192.2	183.3	174.4
130°	231.4	201.7	199.3	189.8	180.2
132.5°	234.9	207.7	205.3	195.8	186.1
135°	238.7	214.6	212.5	203.7	195.0
137.5°	244.5	223.5	221.4	212.7	204.1
140°	248.0	229.5	227.5	219.5	211.6
142.5°	251.0	233.9	232.0	224.7	217.3
145°	254.8	240.6	239.0	232.6	226.2
147.5°	260.5	249.1	247.5	241.3	235.1
150°	263.4	253.5	252.1	246.4	240.8
152.5°	265.3	256.4	255.4	251.1	246.8
155°	269.6	262.7	262.0	258.8	255.6
157.5°	273.8	269.1	268.3	265.3	262.2
160°	275.7	272.0	271.4	269.0	266.7
162.5°	277.8	275.1	274.6	272.8	271.0
165°	280.8	279.5	279.2	277.5	275.9
167.5°	283.0	282.0	281.8	281.0	280.3
170°	285.0	284.9	284.7	283.9	283.2
172.5°	285.1	285.1	285.1	284.9	284.7
175°	286.3	286.8	286.8	286.8	286.8
177.5°	286.4	286.8	286.8	286.8	286.8
180°	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934506  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.70	15.71	15.52	16.55	17.60	17.50	18.51	18.32	19.35	20.40
	3H	15.19	16.09	16.02	16.95	18.02	18.84	19.75	19.68	20.60	21.68
	4H	15.39	16.24	16.24	17.10	18.19	19.29	20.14	20.14	21.00	22.09
	6H	15.51	16.30	16.38	17.17	18.27	19.57	20.36	20.44	21.23	22.33
	8H	15.52	16.27	16.39	17.16	18.26	19.65	20.40	20.52	21.29	22.38
	12H	15.50	16.21	16.37	17.09	18.22	19.69	20.40	20.57	21.28	22.41
4H	2H	15.74	16.60	16.60	17.46	18.54	17.93	18.78	18.78	19.64	20.73
	3H	16.78	17.50	17.65	18.39	19.49	19.44	20.15	20.30	21.04	22.14
	4H	17.07	17.71	17.95	18.60	19.73	19.96	20.61	20.84	21.50	22.63
	6H	17.20	17.76	18.09	18.67	19.80	20.33	20.89	21.22	21.80	22.93
	8H	17.21	17.73	18.11	18.64	19.78	20.43	20.96	21.33	21.87	23.01
	12H	17.18	17.65	18.10	18.58	19.73	20.49	20.96	21.41	21.89	23.04
8H	4H	17.53	18.05	18.42	18.96	20.10	20.10	20.62	21.00	21.53	22.68
	6H	17.79	18.23	18.72	19.18	20.32	20.54	20.97	21.46	21.92	23.06
	8H	17.84	18.22	18.77	19.16	20.32	20.68	21.07	21.62	22.01	23.17
	12H	17.83	18.17	18.77	19.10	20.31	20.78	21.12	21.72	22.06	23.27
12H	4H	17.54	18.01	18.46	18.94	20.09	20.07	20.54	20.99	21.47	22.62
	6H	17.85	18.24	18.79	19.18	20.34	20.53	20.92	21.47	21.86	23.02
	8H	17.93	18.27	18.87	19.20	20.41	20.70	21.04	21.64	21.97	23.18