

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: P936074

Luminaire Tested: SQ4-FA-150U-100D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936074
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

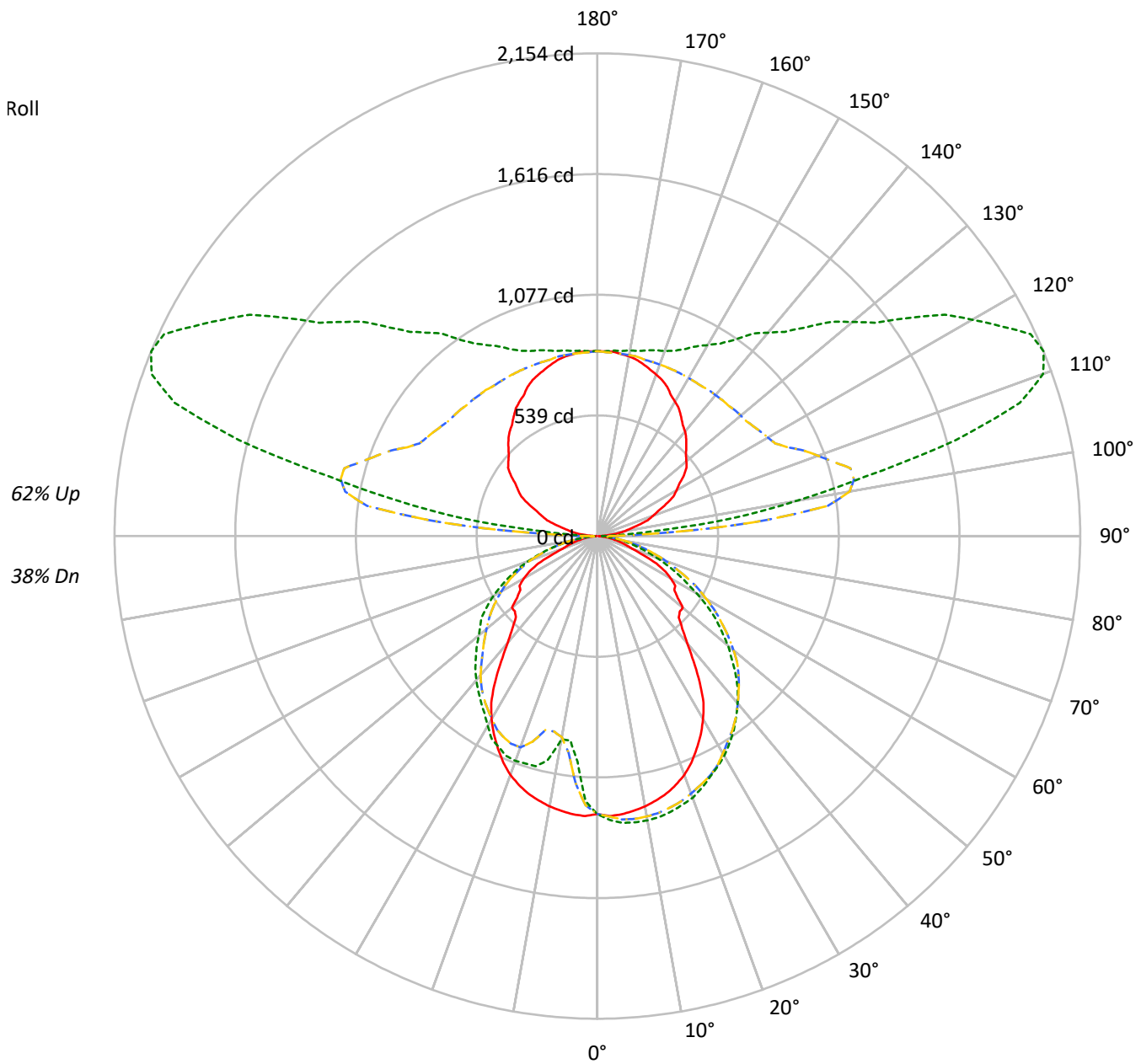
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8568.3 lumens
Efficiency: N/A
Efficacy: 118.3 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-Indirect

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27			27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19			19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10			10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9			9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11507	11507	11507	11507
5°	11581	11617	11581	9134
10°	11491	11442	11491	8181
15°	11353	11194	11353	9347
20°	11102	10901	11102	9367
25°	10604	10472	10604	9169
30°	9963	10117	9963	8733
35°	8869	9668	8869	8254
40°	7378	9137	7378	7892
45°	6579	8518	6579	7477
50°	6974	7779	6974	7059
55°	6543	6983	6543	6817
60°	6720	5929	6720	6243
65°	6064	4901	6064	5479
70°	4171	3906	4171	4593
75°	3617	2888	3617	3458
80°	2855	1909	2855	2079
85°	1548	1011	1548	860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10103 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	1.3
10°-20°	317.8	3.7
20°-30°	491.3	5.7
30°-40°	586.5	6.8
40°-50°	590.0	6.9
50°-60°	513.3	6.0
60°-70°	364.0	4.2
70°-80°	192.6	2.2
80°-90°	51.1	0.6
90°-100°	402.3	4.7
100°-110°	1057.6	12.3
110°-120°	1096.6	12.8
120°-130°	879.6	10.3
130°-140°	690.2	8.1
140°-150°	529.7	6.2
150°-160°	381.5	4.5
160°-170°	233.4	2.7
170°-180°	78.9	0.9
0°-30°	921.1	10.8
0°-40°	1507.6	17.6
0°-60°	2611.0	30.5
0°-90°	3218.6	37.6
90°-120°	2556.5	29.8
90°-150°	4656.0	54.3
90°-180°	5350.0	62.4
0°-180°	8568.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1240	1240	1240	1240	1240	
5°	1246	1285	1246	1010	1246	118
15°	1190	1273	1190	1063	1190	335
25°	1048	1187	1048	1040	1048	481
35°	797	1060	797	905	797	493
45°	514	873	514	766	514	412
55°	419	644	419	629	419	385
65°	291	388	291	434	291	278
75°	110	184	110	221	110	116
85°	19	47	19	40	19	25
90°	6	21	6	21	6	5
95°	53	243	53	243	53	59
105°	191	1656	191	1656	191	202
115°	338	2132	338	2132	338	334
125°	471	1698	471	1698	471	418
135°	561	1318	561	1318	561	434
145°	651	1069	651	1069	651	408
155°	736	920	736	920	736	338
165°	794	857	794	857	794	224
175°	825	831	825	831	825	78
180°	825	825	825	825	825	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1250.7	1250.7	1257.8	1260.1	1260.1	1256.5	1253.1	1256.5	1267.1	1270.6	1269.5
5°	1246.0	1255.4	1268.3	1270.6	1272.9	1271.8	1269.5	1271.8	1283.5	1285.9	1287.1
7.5°	1236.6	1254.2	1270.6	1274.2	1277.7	1274.2	1272.9	1275.3	1287.1	1289.4	1289.4
10°	1224.9	1249.5	1268.3	1270.6	1274.2	1270.6	1270.6	1275.3	1287.1	1289.4	1290.6
12.5°	1208.5	1242.5	1260.1	1262.5	1267.1	1265.9	1264.8	1269.5	1281.2	1283.5	1283.5
15°	1189.7	1229.6	1246.0	1248.4	1256.5	1254.2	1254.2	1258.9	1271.8	1275.3	1274.2
17.5°	1163.9	1213.2	1231.9	1235.5	1241.3	1240.1	1241.3	1246.0	1257.8	1260.1	1261.2
20°	1134.5	1190.9	1213.2	1216.6	1222.5	1222.5	1222.5	1228.4	1240.1	1244.8	1244.8
22.5°	1094.6	1167.4	1190.9	1193.2	1200.2	1200.2	1202.6	1210.8	1221.4	1222.5	1222.5
25°	1047.8	1141.6	1161.5	1168.6	1175.6	1179.1	1182.6	1187.3	1190.9	1189.7	1190.9
27.5°	998.5	1108.8	1134.5	1139.2	1148.6	1152.2	1156.8	1158.0	1159.2	1162.7	1160.3
30°	943.3	1062.9	1101.7	1106.4	1121.6	1123.9	1119.3	1121.6	1127.5	1129.9	1132.2
32.5°	881.1	994.9	1067.6	1078.2	1092.3	1085.2	1084.1	1087.6	1097.0	1097.0	1099.3
35°	796.6	942.2	1036.0	1045.4	1055.9	1047.8	1052.4	1053.6	1059.5	1062.9	1061.8
37.5°	703.9	896.3	1003.2	1010.2	1018.4	1007.8	1014.9	1018.4	1023.1	1020.8	1020.8
40°	621.9	824.8	964.5	969.1	976.2	967.9	974.9	977.3	979.6	977.3	976.2
42.5°	560.9	746.2	923.3	929.2	924.5	930.4	932.8	937.5	933.9	929.2	929.2
45°	513.9	725.1	878.8	885.8	878.8	888.2	891.6	891.6	881.1	878.8	877.6
47.5°	498.6	682.9	834.2	834.2	830.6	842.4	848.3	840.0	829.5	826.0	826.0
50°	497.5	635.9	773.2	768.5	784.9	799.0	793.2	784.9	776.7	763.8	763.8
52.5°	451.7	578.4	694.6	712.2	738.0	746.2	736.8	728.6	714.5	708.6	703.9
55°	418.9	518.6	623.0	658.2	685.2	695.7	678.2	669.9	648.8	645.3	642.9
57.5°	411.9	431.7	557.3	601.9	634.7	633.6	623.0	607.7	590.2	586.6	585.5
60°	377.8	312.0	486.9	539.7	573.7	570.2	560.9	546.7	530.3	528.0	525.6
62.5°	342.6	226.4	407.1	467.0	515.0	513.9	505.7	484.6	472.9	467.0	462.3
65°	291.0	190.0	289.8	388.3	457.6	459.9	442.3	427.0	414.2	407.1	405.9
67.5°	221.7	154.9	195.9	323.9	402.4	400.0	377.8	370.7	354.3	350.8	343.7
70°	164.3	103.3	136.1	262.8	348.5	342.6	325.0	316.7	301.6	293.3	288.6
72.5°	136.1	83.3	99.7	204.2	293.3	286.3	271.0	261.6	248.7	241.7	237.0
75°	110.3	88.0	76.3	151.3	238.2	233.5	219.4	210.0	199.4	190.0	191.3
77.5°	81.0	82.1	61.0	111.4	188.9	181.9	173.6	161.9	157.2	147.9	147.9
80°	61.0	64.6	45.7	76.3	136.1	136.1	129.0	120.9	112.6	108.0	108.0
82.5°	41.0	41.0	34.0	48.1	92.7	89.2	84.4	82.1	77.4	75.1	75.1
85°	18.7	23.4	21.1	29.3	50.4	52.8	52.8	50.4	49.3	46.9	48.1
87.5°	5.9	10.6	12.9	16.4	25.8	27.0	28.1	28.1	28.1	29.3	29.3
90°	5.5	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.1	21.0	21.0
92.5°	22.1	59.8	97.5	106.9	150.2	208.1	237.0	207.7	149.2	105.2	101.1
95°	53.2	122.1	191.0	208.2	369.8	585.2	692.9	618.3	469.1	357.2	344.5
97.5°	91.9	152.7	213.6	228.7	498.1	857.3	1036.8	989.7	895.4	824.7	800.5
100°	121.8	177.0	232.1	245.9	544.8	943.3	1142.6	1146.1	1153.0	1158.1	1129.4
102.5°	147.3	198.8	250.2	263.1	566.3	970.4	1172.5	1232.5	1352.7	1442.8	1418.2
105°	190.6	234.2	277.7	288.6	582.1	973.4	1169.1	1303.8	1573.1	1775.1	1761.9
107.5°	234.9	275.5	316.1	326.3	585.1	930.2	1102.7	1290.5	1666.2	1947.9	1951.1
110°	264.7	301.4	338.2	347.3	580.7	891.7	1047.3	1257.3	1677.3	1992.2	2006.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	294.1	329.1	364.1	372.8	580.8	858.3	997.0	1211.9	1641.6	1964.0	1985.1
115°	338.4	370.7	402.9	411.0	586.2	819.8	936.6	1143.6	1557.6	1868.2	1897.6
117.5°	382.2	411.5	440.8	448.1	597.1	795.7	895.0	1081.9	1455.5	1735.8	1768.4
120°	407.6	435.2	462.7	469.7	605.9	787.6	878.4	1049.1	1390.5	1646.6	1678.2
122.5°	432.5	460.3	488.2	495.1	618.7	783.4	865.7	1019.4	1326.8	1557.5	1588.6
125°	470.8	496.1	521.5	527.8	635.8	779.8	851.9	982.4	1243.6	1439.4	1468.2
127.5°	501.8	527.4	553.0	559.4	652.9	777.8	840.2	952.4	1176.6	1344.8	1369.0
130°	518.4	545.9	573.5	580.4	665.6	779.0	835.8	935.6	1135.2	1284.9	1307.3
132.5°	535.6	563.2	590.7	597.6	675.7	779.8	831.9	921.2	1100.0	1234.0	1254.0
135°	561.0	586.2	611.2	617.5	686.8	779.0	825.2	900.1	1049.7	1161.9	1179.3
137.5°	587.1	611.9	636.8	643.0	703.4	783.9	824.2	887.4	1013.9	1108.8	1123.0
140°	608.7	631.6	654.5	660.2	713.6	784.7	820.2	874.9	984.2	1066.1	1079.4
142.5°	625.3	646.5	667.6	672.9	722.0	787.5	820.2	868.3	964.3	1036.3	1047.7
145°	650.8	669.3	687.7	692.3	733.1	787.6	814.7	854.0	932.5	991.4	1000.0
147.5°	676.2	694.2	712.2	716.7	749.4	793.0	814.7	845.6	907.4	953.7	960.8
150°	692.9	709.2	725.3	729.4	757.8	795.7	814.7	840.8	893.0	932.1	937.9
152.5°	710.0	722.4	734.6	737.8	763.4	797.6	814.7	837.0	881.6	915.0	919.3
155°	735.5	744.7	753.7	756.0	775.6	801.7	814.7	832.5	867.9	894.5	897.4
157.5°	754.4	763.2	772.0	774.2	787.7	805.8	814.7	828.5	856.0	876.7	878.8
160°	767.1	774.0	780.9	782.6	793.3	807.6	814.7	826.6	850.2	867.8	869.0
162.5°	779.8	785.0	790.1	791.5	799.2	809.6	814.7	824.7	844.7	859.6	860.6
165°	793.7	798.3	803.0	804.2	807.7	812.4	814.7	821.8	836.1	846.8	848.0
167.5°	806.4	808.6	810.8	811.4	814.3	818.3	820.2	825.0	834.3	841.3	841.8
170°	814.7	817.0	819.2	819.7	819.9	820.2	820.2	825.0	834.3	841.3	841.3
172.5°	819.2	819.6	820.2	820.2	820.2	820.2	820.2	824.0	831.3	836.9	836.4
175°	825.2	825.2	825.2	825.2	823.5	821.3	820.2	822.6	827.3	830.8	830.8
177.5°	825.2	825.2	825.2	825.2	824.0	822.3	821.4	823.3	826.9	829.7	829.1
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1271.8	1268.3	1271.8	1269.5	1270.6	1267.1	1256.5	1253.1	1256.5	1260.1	1260.1
5°	1287.1	1284.8	1287.1	1287.1	1285.9	1283.5	1271.8	1269.5	1271.8	1272.9	1270.6
7.5°	1291.8	1288.2	1291.8	1289.4	1289.4	1287.1	1275.3	1272.9	1274.2	1277.7	1274.2
10°	1291.8	1288.2	1291.8	1290.6	1289.4	1287.1	1275.3	1270.6	1270.6	1274.2	1270.6
12.5°	1285.9	1283.5	1285.9	1283.5	1283.5	1281.2	1269.5	1264.8	1265.9	1267.1	1262.5
15°	1276.5	1272.9	1276.5	1274.2	1275.3	1271.8	1258.9	1254.2	1254.2	1256.5	1248.4
17.5°	1262.5	1257.8	1262.5	1261.2	1260.1	1257.8	1246.0	1241.3	1240.1	1241.3	1235.5
20°	1246.0	1242.5	1246.0	1244.8	1244.8	1240.1	1228.4	1222.5	1222.5	1222.5	1216.6
22.5°	1220.2	1216.6	1220.2	1222.5	1222.5	1221.4	1210.8	1202.6	1200.2	1200.2	1193.2
25°	1190.9	1187.3	1190.9	1190.9	1189.7	1190.9	1187.3	1182.6	1179.1	1175.6	1168.6
27.5°	1162.7	1160.3	1162.7	1160.3	1162.7	1159.2	1158.0	1156.8	1152.2	1148.6	1139.2
30°	1134.5	1132.2	1134.5	1132.2	1129.9	1127.5	1121.6	1119.3	1123.9	1121.6	1106.4
32.5°	1099.3	1097.0	1099.3	1099.3	1097.0	1097.0	1087.6	1084.1	1085.2	1092.3	1078.2
35°	1062.9	1059.5	1062.9	1061.8	1062.9	1059.5	1053.6	1052.4	1047.8	1055.9	1045.4
37.5°	1020.8	1017.2	1020.8	1020.8	1020.8	1023.1	1018.4	1014.9	1007.8	1018.4	1010.2
40°	977.3	972.6	977.3	976.2	977.3	979.6	977.3	974.9	967.9	976.2	969.1
42.5°	928.0	926.9	928.0	929.2	929.2	933.9	937.5	932.8	930.4	924.5	929.2
45°	875.2	872.9	875.2	877.6	878.8	881.1	891.6	891.6	888.2	878.8	885.8
47.5°	818.9	813.1	818.9	826.0	826.0	829.5	840.0	848.3	842.4	830.6	834.2
50°	759.1	760.3	759.1	763.8	763.8	776.7	784.9	793.2	799.0	784.9	768.5
52.5°	700.5	699.3	700.5	703.9	708.6	714.5	728.6	736.8	746.2	738.0	712.2
55°	641.8	644.2	641.8	642.9	645.3	648.8	669.9	678.2	695.7	685.2	658.2
57.5°	583.1	579.6	583.1	585.5	586.6	590.2	607.7	623.0	633.6	634.7	601.9
60°	515.0	510.3	515.0	525.6	528.0	530.3	546.7	560.9	570.2	573.7	539.7
62.5°	455.2	447.0	455.2	462.3	467.0	472.9	484.6	505.7	513.9	515.0	467.0
65°	391.9	388.3	391.9	405.9	407.1	414.2	427.0	442.3	459.9	457.6	388.3
67.5°	334.4	334.4	334.4	343.7	350.8	354.3	370.7	377.8	400.0	402.4	323.9
70°	281.6	280.4	281.6	288.6	293.3	301.6	316.7	325.0	342.6	348.5	262.8
72.5°	231.1	230.0	231.1	237.0	241.7	248.7	261.6	271.0	286.3	293.3	204.2
75°	186.6	184.2	186.6	191.3	190.0	199.4	210.0	219.4	233.5	238.2	151.3
77.5°	143.1	143.1	143.1	147.9	147.9	157.2	161.9	173.6	181.9	188.9	111.4
80°	106.7	105.6	106.7	108.0	108.0	112.6	120.9	129.0	136.1	136.1	76.3
82.5°	75.1	72.7	75.1	75.1	75.1	77.4	82.1	84.4	89.2	92.7	48.1
85°	46.9	46.9	46.9	48.1	46.9	49.3	50.4	52.8	52.8	50.4	29.3
87.5°	30.5	29.3	30.5	29.3	29.3	28.1	28.1	28.1	27.0	25.8	16.4
90°	21.0	21.0	21.0	21.0	21.0	28.1	37.4	42.1	36.2	24.4	15.5
92.5°	84.3	67.6	84.3	101.1	105.2	149.2	207.7	237.0	208.1	150.2	106.9
95°	293.8	243.1	293.8	344.5	357.2	469.1	618.3	692.9	585.2	369.8	208.2
97.5°	704.1	607.6	704.1	800.5	824.7	895.4	989.7	1036.8	857.3	498.1	228.7
100°	1014.5	899.5	1014.5	1129.4	1158.1	1153.0	1146.1	1142.6	943.3	544.8	245.9
102.5°	1319.7	1221.3	1319.7	1418.2	1442.8	1352.7	1232.5	1172.5	970.4	566.3	263.1
105°	1709.0	1656.0	1709.0	1761.9	1775.1	1573.1	1303.8	1169.1	973.4	582.1	288.6
107.5°	1963.9	1976.7	1963.9	1951.1	1947.9	1666.2	1290.5	1102.7	930.2	585.1	326.3
110°	2061.1	2116.3	2061.1	2006.0	1992.2	1677.3	1257.3	1047.3	891.7	580.7	347.3



TEST NUMBER: P936074

CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2069.8	2154.5	2069.8	1985.1	1964.0	1641.6	1211.9	997.0	858.3	580.8	372.8
115°	2015.0	2132.4	2015.0	1897.6	1868.2	1557.6	1143.6	936.6	819.8	586.2	411.0
117.5°	1898.5	2028.7	1898.5	1768.4	1735.8	1455.5	1081.9	895.0	795.7	597.1	448.1
120°	1804.8	1931.3	1804.8	1678.2	1646.6	1390.5	1049.1	878.4	787.6	605.9	469.7
122.5°	1713.5	1838.2	1713.5	1588.6	1557.5	1326.8	1019.4	865.7	783.4	618.7	495.1
125°	1583.1	1698.1	1583.1	1468.2	1439.4	1243.6	982.4	851.9	779.8	635.8	527.8
127.5°	1466.0	1563.0	1466.0	1369.0	1344.8	1176.6	952.4	840.2	777.8	652.9	559.4
130°	1396.9	1486.5	1396.9	1307.3	1284.9	1135.2	935.6	835.8	779.0	665.6	580.4
132.5°	1334.2	1414.5	1334.2	1254.0	1234.0	1100.0	921.2	831.9	779.8	675.7	597.6
135°	1248.4	1317.6	1248.4	1179.3	1161.9	1049.7	900.1	825.2	779.0	686.8	617.5
137.5°	1179.6	1236.2	1179.6	1123.0	1108.8	1013.9	887.4	824.2	783.9	703.4	643.0
140°	1132.3	1185.2	1132.3	1079.4	1066.1	984.2	874.9	820.2	784.7	713.6	660.2
142.5°	1093.2	1138.7	1093.2	1047.7	1036.3	964.3	868.3	820.2	787.5	722.0	672.9
145°	1034.5	1069.0	1034.5	1000.0	991.4	932.5	854.0	814.7	787.6	733.1	692.3
147.5°	989.4	1018.0	989.4	960.8	953.7	907.4	845.6	814.7	793.0	749.4	716.7
150°	961.1	984.2	961.1	937.9	932.1	893.0	840.8	814.7	795.7	757.8	729.4
152.5°	936.8	954.2	936.8	919.3	915.0	881.6	837.0	814.7	797.6	763.4	737.8
155°	909.0	920.5	909.0	897.4	894.5	867.9	832.5	814.7	801.7	775.6	756.0
157.5°	886.8	895.0	886.8	878.8	876.7	856.0	828.5	814.7	805.8	787.7	774.2
160°	873.7	878.4	873.7	869.0	867.8	850.2	826.6	814.7	807.6	793.3	782.6
162.5°	865.1	869.5	865.1	860.6	859.6	844.7	824.7	814.7	809.6	799.2	791.5
165°	852.7	857.4	852.7	848.0	846.8	836.1	821.8	814.7	812.4	807.7	804.2
167.5°	843.8	845.7	843.8	841.8	841.3	834.3	825.0	820.2	818.3	814.3	811.4
170°	841.3	841.3	841.3	841.3	841.3	834.3	825.0	820.2	820.2	819.9	819.7
172.5°	834.7	833.0	834.7	836.4	836.9	831.3	824.0	820.2	820.2	820.2	820.2
175°	830.8	830.8	830.8	830.8	830.8	827.3	822.6	820.2	821.3	823.5	825.2
177.5°	827.2	825.2	827.2	829.1	829.7	826.9	823.3	821.4	822.3	824.0	825.2
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



TEST NUMBER: P936074
 CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1257.8	1250.7	1250.7	1238.9	1234.2	1230.8	1224.9	1207.3	1202.6	1197.9	1204.9
5°	1268.3	1255.4	1246.0	1224.9	1207.3	1200.2	1177.9	1135.8	1107.5	1086.5	1074.7
7.5°	1270.6	1254.2	1236.6	1203.8	1161.5	1142.8	1074.7	997.3	976.2	957.4	945.6
10°	1268.3	1249.5	1224.9	1175.6	1075.9	1043.0	974.9	924.5	911.6	908.1	911.6
12.5°	1260.1	1242.5	1208.5	1126.3	986.7	964.5	924.5	895.2	892.9	898.7	930.4
15°	1246.0	1229.6	1189.7	1060.6	937.5	921.0	892.9	882.3	895.2	936.2	1031.3
17.5°	1231.9	1213.2	1163.9	996.1	899.9	888.2	868.2	889.3	962.1	1017.2	1048.9
20°	1213.2	1190.9	1134.5	949.2	872.9	862.3	852.9	948.0	1003.2	1023.1	1040.6
22.5°	1190.9	1167.4	1094.6	916.3	844.8	836.5	842.4	980.9	1003.2	1017.2	1032.5
25°	1161.5	1141.6	1047.8	890.5	822.5	813.1	835.3	977.3	990.2	993.8	1024.2
27.5°	1134.5	1108.8	998.5	867.0	795.5	791.9	841.2	962.1	971.5	974.9	1007.8
30°	1101.7	1062.9	943.3	842.4	767.3	766.2	842.4	943.3	940.9	950.3	983.2
32.5°	1067.6	994.9	881.1	811.9	740.3	739.2	834.2	915.2	912.8	925.7	950.3
35°	1036.0	942.2	796.6	776.7	706.3	707.5	814.2	882.3	883.5	895.2	910.5
37.5°	1003.2	896.3	703.9	738.0	673.5	673.5	787.2	851.8	849.5	852.9	874.1
40°	964.5	824.8	621.9	687.5	642.9	639.4	754.4	818.9	810.7	809.6	838.9
42.5°	923.3	746.2	560.9	620.6	607.7	603.0	714.5	779.0	763.8	767.3	804.9
45°	878.8	725.1	513.9	524.5	571.3	567.9	671.1	733.3	722.7	732.2	770.9
47.5°	834.2	682.9	498.6	435.3	532.6	531.5	623.0	688.7	682.9	692.2	733.3
50°	773.2	635.9	497.5	373.1	489.3	493.9	565.5	645.3	645.3	653.5	696.9
52.5°	694.6	578.4	451.7	337.9	438.8	452.9	515.0	607.7	610.1	618.3	657.0
55°	623.0	518.6	418.9	310.9	379.0	409.5	465.8	569.0	573.7	581.9	617.2
57.5°	557.3	431.7	411.9	279.3	323.9	353.2	422.3	531.5	533.9	540.9	574.9
60°	486.9	312.0	377.8	245.2	275.7	298.0	382.5	486.9	495.1	499.8	529.2
62.5°	407.1	226.4	342.6	221.7	252.3	257.0	349.6	444.6	455.2	458.7	476.3
65°	289.8	190.0	291.0	201.8	227.6	228.7	314.4	401.3	410.6	416.5	429.4
67.5°	195.9	154.9	221.7	183.0	208.9	210.0	280.4	350.8	363.7	368.4	376.6
70°	136.1	103.3	164.3	163.1	187.7	190.0	244.0	305.0	316.7	320.3	325.0
72.5°	99.7	83.3	136.1	146.7	165.4	167.7	206.5	253.4	265.2	268.7	271.0
75°	76.3	88.0	110.3	127.9	140.7	142.0	169.0	206.5	214.7	217.0	218.2
77.5°	61.0	82.1	81.0	103.3	115.0	112.6	132.6	159.6	166.6	166.6	166.6
80°	45.7	64.6	61.0	73.9	84.4	82.1	95.0	113.8	116.2	118.5	117.3
82.5°	34.0	41.0	41.0	46.9	56.3	54.0	63.3	73.9	73.9	73.9	76.3
85°	21.1	23.4	18.7	24.6	31.7	30.5	35.2	39.9	41.0	41.0	38.7
87.5°	12.9	10.6	5.9	9.4	14.1	14.1	16.4	17.6	16.4	16.4	16.4
90°	14.4	9.9	5.5	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.1
92.5°	97.5	59.8	22.1	59.8	97.5	106.9	150.2	208.1	237.0	207.7	149.2
95°	191.0	122.1	53.2	122.1	191.0	208.2	369.8	585.2	692.9	618.3	469.1
97.5°	213.6	152.7	91.9	152.7	213.6	228.7	498.1	857.3	1036.8	989.7	895.4
100°	232.1	177.0	121.8	177.0	232.1	245.9	544.8	943.3	1142.6	1146.1	1153.0
102.5°	250.2	198.8	147.3	198.8	250.2	263.1	566.3	970.4	1172.5	1232.5	1352.7
105°	277.7	234.2	190.6	234.2	277.7	288.6	582.1	973.4	1169.1	1303.8	1573.1
107.5°	316.1	275.5	234.9	275.5	316.1	326.3	585.1	930.2	1102.7	1290.5	1666.2
110°	338.2	301.4	264.7	301.4	338.2	347.3	580.7	891.7	1047.3	1257.3	1677.3



TEST NUMBER: P936074

CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	364.1	329.1	294.1	329.1	364.1	372.8	580.8	858.3	997.0	1211.9	1641.6
115°	402.9	370.7	338.4	370.7	402.9	411.0	586.2	819.8	936.6	1143.6	1557.6
117.5°	440.8	411.5	382.2	411.5	440.8	448.1	597.1	795.7	895.0	1081.9	1455.5
120°	462.7	435.2	407.6	435.2	462.7	469.7	605.9	787.6	878.4	1049.1	1390.5
122.5°	488.2	460.3	432.5	460.3	488.2	495.1	618.7	783.4	865.7	1019.4	1326.8
125°	521.5	496.1	470.8	496.1	521.5	527.8	635.8	779.8	851.9	982.4	1243.6
127.5°	553.0	527.4	501.8	527.4	553.0	559.4	652.9	777.8	840.2	952.4	1176.6
130°	573.5	545.9	518.4	545.9	573.5	580.4	665.6	779.0	835.8	935.6	1135.2
132.5°	590.7	563.2	535.6	563.2	590.7	597.6	675.7	779.8	831.9	921.2	1100.0
135°	611.2	586.2	561.0	586.2	611.2	617.5	686.8	779.0	825.2	900.1	1049.7
137.5°	636.8	611.9	587.1	611.9	636.8	643.0	703.4	783.9	824.2	887.4	1013.9
140°	654.5	631.6	608.7	631.6	654.5	660.2	713.6	784.7	820.2	874.9	984.2
142.5°	667.6	646.5	625.3	646.5	667.6	672.9	722.0	787.5	820.2	868.3	964.3
145°	687.7	669.3	650.8	669.3	687.7	692.3	733.1	787.6	814.7	854.0	932.5
147.5°	712.2	694.2	676.2	694.2	712.2	716.7	749.4	793.0	814.7	845.6	907.4
150°	725.3	709.2	692.9	709.2	725.3	729.4	757.8	795.7	814.7	840.8	893.0
152.5°	734.6	722.4	710.0	722.4	734.6	737.8	763.4	797.6	814.7	837.0	881.6
155°	753.7	744.7	735.5	744.7	753.7	756.0	775.6	801.7	814.7	832.5	867.9
157.5°	772.0	763.2	754.4	763.2	772.0	774.2	787.7	805.8	814.7	828.5	856.0
160°	780.9	774.0	767.1	774.0	780.9	782.6	793.3	807.6	814.7	826.6	850.2
162.5°	790.1	785.0	779.8	785.0	790.1	791.5	799.2	809.6	814.7	824.7	844.7
165°	803.0	798.3	793.7	798.3	803.0	804.2	807.7	812.4	814.7	821.8	836.1
167.5°	810.8	808.6	806.4	808.6	810.8	811.4	814.3	818.3	820.2	825.0	834.3
170°	819.2	817.0	814.7	817.0	819.2	819.7	819.9	820.2	820.2	825.0	834.3
172.5°	820.2	819.6	819.2	819.6	820.2	820.2	820.2	820.2	820.2	824.0	831.3
175°	825.2	825.2	825.2	825.2	825.2	825.2	823.5	821.3	820.2	822.6	827.3
177.5°	825.2	825.2	825.2	825.2	825.2	825.2	824.0	822.3	821.4	823.3	826.9
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



TEST NUMBER: P936074

CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1196.8	1193.2	1197.9	1184.9	1197.9	1193.2	1196.8	1204.9	1197.9	1202.6	1207.3
5°	1050.1	1044.2	1025.5	1010.2	1025.5	1044.2	1050.1	1074.7	1086.5	1107.5	1135.8
7.5°	938.6	933.9	929.2	919.8	929.2	933.9	938.6	945.6	957.4	976.2	997.3
10°	913.9	915.2	922.2	921.0	922.2	915.2	913.9	911.6	908.1	911.6	924.5
12.5°	977.3	987.9	1026.6	1024.2	1026.6	987.9	977.3	930.4	898.7	892.9	895.2
15°	1050.1	1053.6	1061.8	1062.9	1061.8	1053.6	1050.1	1031.3	936.2	895.2	882.3
17.5°	1057.1	1058.3	1064.2	1064.2	1064.2	1058.3	1057.1	1048.9	1017.2	962.1	889.3
20°	1051.2	1053.6	1065.3	1067.6	1065.3	1053.6	1051.2	1040.6	1023.1	1003.2	948.0
22.5°	1048.9	1053.6	1062.9	1061.8	1062.9	1053.6	1048.9	1032.5	1017.2	1003.2	980.9
25°	1037.2	1037.2	1038.3	1039.5	1038.3	1037.2	1037.2	1024.2	993.8	990.2	977.3
27.5°	1012.5	1014.9	1021.9	1020.8	1021.9	1014.9	1012.5	1007.8	974.9	971.5	962.1
30°	990.2	987.9	982.0	977.3	982.0	987.9	990.2	983.2	950.3	940.9	943.3
32.5°	952.6	946.8	940.9	937.5	940.9	946.8	952.6	950.3	925.7	912.8	915.2
35°	908.1	909.3	908.1	904.6	908.1	909.3	908.1	910.5	895.2	883.5	882.3
37.5°	876.5	878.8	877.6	872.9	877.6	878.8	876.5	874.1	852.9	849.5	851.8
40°	843.6	844.8	843.6	840.0	843.6	844.8	843.6	838.9	809.6	810.7	818.9
42.5°	811.9	810.7	807.2	804.9	807.2	810.7	811.9	804.9	767.3	763.8	779.0
45°	775.5	776.7	769.6	766.2	769.6	776.7	775.5	770.9	732.2	722.7	733.3
47.5°	739.2	739.2	733.3	729.8	733.3	739.2	739.2	733.3	692.2	682.9	688.7
50°	700.5	699.3	691.0	689.9	691.0	699.3	700.5	696.9	653.5	645.3	645.3
52.5°	655.9	655.9	657.0	659.3	657.0	655.9	655.9	657.0	618.3	610.1	607.7
55°	617.2	618.3	626.5	628.9	626.5	618.3	617.2	617.2	581.9	573.7	569.0
57.5°	577.2	577.2	583.1	583.1	583.1	577.2	577.2	574.9	540.9	533.9	531.5
60°	531.5	533.9	538.5	537.3	538.5	533.9	531.5	529.2	499.8	495.1	486.9
62.5°	483.3	485.7	486.9	484.6	486.9	485.7	483.3	476.3	458.7	455.2	444.6
65°	432.9	435.3	436.5	434.1	436.5	435.3	432.9	429.4	416.5	410.6	401.3
67.5°	381.3	380.2	379.0	383.6	379.0	380.2	381.3	376.6	368.4	363.7	350.8
70°	328.5	328.5	327.3	329.7	327.3	328.5	328.5	325.0	320.3	316.7	305.0
72.5°	272.2	271.0	275.7	272.2	275.7	271.0	272.2	271.0	268.7	265.2	253.4
75°	217.0	219.4	217.0	220.6	217.0	219.4	217.0	218.2	217.0	214.7	206.5
77.5°	165.4	167.7	165.4	165.4	165.4	167.7	165.4	166.6	166.6	166.6	159.6
80°	117.3	116.2	116.2	115.0	116.2	116.2	117.3	117.3	118.5	116.2	113.8
82.5°	75.1	73.9	73.9	76.3	73.9	73.9	75.1	76.3	73.9	73.9	73.9
85°	41.0	42.3	39.9	39.9	39.9	42.3	41.0	38.7	41.0	41.0	39.9
87.5°	15.3	14.1	14.1	14.1	14.1	14.1	15.3	16.4	16.4	16.4	17.6
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	28.1	37.4	42.1	36.2
92.5°	105.2	101.1	84.3	67.6	84.3	101.1	105.2	149.2	207.7	237.0	208.1
95°	357.2	344.5	293.8	243.1	293.8	344.5	357.2	469.1	618.3	692.9	585.2
97.5°	824.7	800.5	704.1	607.6	704.1	800.5	824.7	895.4	989.7	1036.8	857.3
100°	1158.1	1129.4	1014.5	899.5	1014.5	1129.4	1158.1	1153.0	1146.1	1142.6	943.3
102.5°	1442.8	1418.2	1319.7	1221.3	1319.7	1418.2	1442.8	1352.7	1232.5	1172.5	970.4
105°	1775.1	1761.9	1709.0	1656.0	1709.0	1761.9	1775.1	1573.1	1303.8	1169.1	973.4
107.5°	1947.9	1951.1	1963.9	1976.7	1963.9	1951.1	1947.9	1666.2	1290.5	1102.7	930.2
110°	1992.2	2006.0	2061.1	2116.3	2061.1	2006.0	1992.2	1677.3	1257.3	1047.3	891.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1964.0	1985.1	2069.8	2154.5	2069.8	1985.1	1964.0	1641.6	1211.9	997.0	858.3
115°	1868.2	1897.6	2015.0	2132.4	2015.0	1897.6	1868.2	1557.6	1143.6	936.6	819.8
117.5°	1735.8	1768.4	1898.5	2028.7	1898.5	1768.4	1735.8	1455.5	1081.9	895.0	795.7
120°	1646.6	1678.2	1804.8	1931.3	1804.8	1678.2	1646.6	1390.5	1049.1	878.4	787.6
122.5°	1557.5	1588.6	1713.5	1838.2	1713.5	1588.6	1557.5	1326.8	1019.4	865.7	783.4
125°	1439.4	1468.2	1583.1	1698.1	1583.1	1468.2	1439.4	1243.6	982.4	851.9	779.8
127.5°	1344.8	1369.0	1466.0	1563.0	1466.0	1369.0	1344.8	1176.6	952.4	840.2	777.8
130°	1284.9	1307.3	1396.9	1486.5	1396.9	1307.3	1284.9	1135.2	935.6	835.8	779.0
132.5°	1234.0	1254.0	1334.2	1414.5	1334.2	1254.0	1234.0	1100.0	921.2	831.9	779.8
135°	1161.9	1179.3	1248.4	1317.6	1248.4	1179.3	1161.9	1049.7	900.1	825.2	779.0
137.5°	1108.8	1123.0	1179.6	1236.2	1179.6	1123.0	1108.8	1013.9	887.4	824.2	783.9
140°	1066.1	1079.4	1132.3	1185.2	1132.3	1079.4	1066.1	984.2	874.9	820.2	784.7
142.5°	1036.3	1047.7	1093.2	1138.7	1093.2	1047.7	1036.3	964.3	868.3	820.2	787.5
145°	991.4	1000.0	1034.5	1069.0	1034.5	1000.0	991.4	932.5	854.0	814.7	787.6
147.5°	953.7	960.8	989.4	1018.0	989.4	960.8	953.7	907.4	845.6	814.7	793.0
150°	932.1	937.9	961.1	984.2	961.1	937.9	932.1	893.0	840.8	814.7	795.7
152.5°	915.0	919.3	936.8	954.2	936.8	919.3	915.0	881.6	837.0	814.7	797.6
155°	894.5	897.4	909.0	920.5	909.0	897.4	894.5	867.9	832.5	814.7	801.7
157.5°	876.7	878.8	886.8	895.0	886.8	878.8	876.7	856.0	828.5	814.7	805.8
160°	867.8	869.0	873.7	878.4	873.7	869.0	867.8	850.2	826.6	814.7	807.6
162.5°	859.6	860.6	865.1	869.5	865.1	860.6	859.6	844.7	824.7	814.7	809.6
165°	846.8	848.0	852.7	857.4	852.7	848.0	846.8	836.1	821.8	814.7	812.4
167.5°	841.3	841.8	843.8	845.7	843.8	841.8	841.3	834.3	825.0	820.2	818.3
170°	841.3	841.3	841.3	841.3	841.3	841.3	841.3	834.3	825.0	820.2	820.2
172.5°	836.9	836.4	834.7	833.0	834.7	836.4	836.9	831.3	824.0	820.2	820.2
175°	830.8	830.8	830.8	830.8	830.8	830.8	830.8	827.3	822.6	820.2	821.3
177.5°	829.7	829.1	827.2	825.2	827.2	829.1	829.7	826.9	823.3	821.4	822.3
180°	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2	825.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1224.9	1230.8	1234.2	1238.9	1250.7
5°	1177.9	1200.2	1207.3	1224.9	1246.0
7.5°	1074.7	1142.8	1161.5	1203.8	1236.6
10°	974.9	1043.0	1075.9	1175.6	1224.9
12.5°	924.5	964.5	986.7	1126.3	1208.5
15°	892.9	921.0	937.5	1060.6	1189.7
17.5°	868.2	888.2	899.9	996.1	1163.9
20°	852.9	862.3	872.9	949.2	1134.5
22.5°	842.4	836.5	844.8	916.3	1094.6
25°	835.3	813.1	822.5	890.5	1047.8
27.5°	841.2	791.9	795.5	867.0	998.5
30°	842.4	766.2	767.3	842.4	943.3
32.5°	834.2	739.2	740.3	811.9	881.1
35°	814.2	707.5	706.3	776.7	796.6
37.5°	787.2	673.5	673.5	738.0	703.9
40°	754.4	639.4	642.9	687.5	621.9
42.5°	714.5	603.0	607.7	620.6	560.9
45°	671.1	567.9	571.3	524.5	513.9
47.5°	623.0	531.5	532.6	435.3	498.6
50°	565.5	493.9	489.3	373.1	497.5
52.5°	515.0	452.9	438.8	337.9	451.7
55°	465.8	409.5	379.0	310.9	418.9
57.5°	422.3	353.2	323.9	279.3	411.9
60°	382.5	298.0	275.7	245.2	377.8
62.5°	349.6	257.0	252.3	221.7	342.6
65°	314.4	228.7	227.6	201.8	291.0
67.5°	280.4	210.0	208.9	183.0	221.7
70°	244.0	190.0	187.7	163.1	164.3
72.5°	206.5	167.7	165.4	146.7	136.1
75°	169.0	142.0	140.7	127.9	110.3
77.5°	132.6	112.6	115.0	103.3	81.0
80°	95.0	82.1	84.4	73.9	61.0
82.5°	63.3	54.0	56.3	46.9	41.0
85°	35.2	30.5	31.7	24.6	18.7
87.5°	16.4	14.1	14.1	9.4	5.9
90°	24.4	15.5	14.4	9.9	5.5
92.5°	150.2	106.9	97.5	59.8	22.1
95°	369.8	208.2	191.0	122.1	53.2
97.5°	498.1	228.7	213.6	152.7	91.9
100°	544.8	245.9	232.1	177.0	121.8
102.5°	566.3	263.1	250.2	198.8	147.3
105°	582.1	288.6	277.7	234.2	190.6
107.5°	585.1	326.3	316.1	275.5	234.9
110°	580.7	347.3	338.2	301.4	264.7



TEST NUMBER: P936074

CATALOG NUMBER: SQ4-FA-150U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	580.8	372.8	364.1	329.1	294.1
115°	586.2	411.0	402.9	370.7	338.4
117.5°	597.1	448.1	440.8	411.5	382.2
120°	605.9	469.7	462.7	435.2	407.6
122.5°	618.7	495.1	488.2	460.3	432.5
125°	635.8	527.8	521.5	496.1	470.8
127.5°	652.9	559.4	553.0	527.4	501.8
130°	665.6	580.4	573.5	545.9	518.4
132.5°	675.7	597.6	590.7	563.2	535.6
135°	686.8	617.5	611.2	586.2	561.0
137.5°	703.4	643.0	636.8	611.9	587.1
140°	713.6	660.2	654.5	631.6	608.7
142.5°	722.0	672.9	667.6	646.5	625.3
145°	733.1	692.3	687.7	669.3	650.8
147.5°	749.4	716.7	712.2	694.2	676.2
150°	757.8	729.4	725.3	709.2	692.9
152.5°	763.4	737.8	734.6	722.4	710.0
155°	775.6	756.0	753.7	744.7	735.5
157.5°	787.7	774.2	772.0	763.2	754.4
160°	793.3	782.6	780.9	774.0	767.1
162.5°	799.2	791.5	790.1	785.0	779.8
165°	807.7	804.2	803.0	798.3	793.7
167.5°	814.3	811.4	810.8	808.6	806.4
170°	819.9	819.7	819.2	817.0	814.7
172.5°	820.2	820.2	820.2	819.6	819.2
175°	823.5	825.2	825.2	825.2	825.2
177.5°	824.0	825.2	825.2	825.2	825.2
180°	825.2	825.2	825.2	825.2	825.2



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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	12.01	12.77	13.07	13.83	15.27	14.81	15.57	15.86	16.63	18.07
	3H	12.48	13.16	13.55	14.23	15.68	16.13	16.81	17.20	17.88	19.34
	4H	12.67	13.31	13.74	14.38	15.84	16.57	17.21	17.65	18.28	19.75
	6H	12.78	13.37	13.87	14.45	15.92	16.84	17.43	17.93	18.51	19.98
	8H	12.78	13.34	13.87	14.43	15.90	16.91	17.47	18.00	18.56	20.03
	12H	12.74	13.28	13.84	14.37	15.86	16.94	17.47	18.03	18.56	20.05
4H	2H	13.02	13.67	14.11	14.74	16.20	15.20	15.85	16.29	16.92	18.38
	3H	14.04	14.58	15.13	15.67	17.15	16.69	17.23	17.78	18.33	19.80
	4H	14.31	14.80	15.41	15.89	17.39	17.21	17.70	18.31	18.79	20.29
	6H	14.43	14.85	15.54	15.96	17.46	17.56	17.98	18.66	19.09	20.58
	8H	14.43	14.83	15.54	15.93	17.44	17.66	18.05	18.76	19.16	20.66
	12H	14.40	14.75	15.52	15.87	17.38	17.71	18.06	18.83	19.18	20.69
8H	4H	14.75	15.15	15.86	16.25	17.76	17.33	17.72	18.43	18.82	20.33
	6H	15.01	15.33	16.13	16.48	17.98	17.75	18.08	18.88	19.22	20.72
	8H	15.05	15.33	16.18	16.46	17.99	17.90	18.18	19.03	19.31	20.83
	12H	15.03	15.28	16.17	16.40	17.96	17.98	18.23	19.12	19.36	20.92
12H	4H	14.75	15.11	15.87	16.22	17.74	17.29	17.64	18.41	18.76	20.27
	6H	15.07	15.35	16.20	16.48	18.00	17.75	18.03	18.88	19.16	20.68
	8H	15.13	15.38	16.27	16.50	18.06	17.90	18.15	19.03	19.27	20.83