

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: P935274

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935274
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

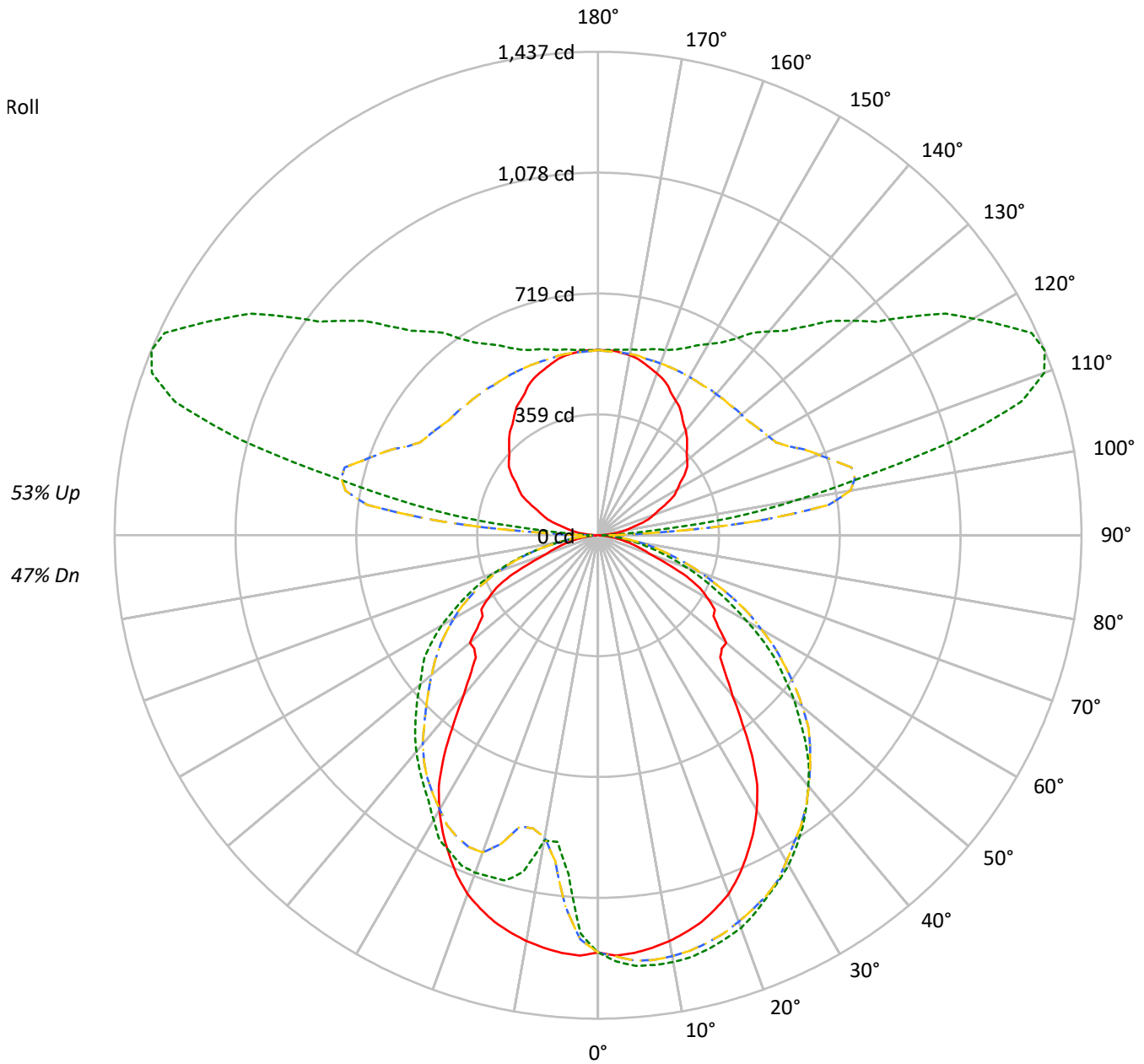
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6785.2 lumens
Efficiency: N/A
Efficacy: 117.0 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



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

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	1.6
10°-20°	317.8	4.7
20°-30°	491.3	7.2
30°-40°	586.5	8.6
40°-50°	590.0	8.7
50°-60°	513.3	7.6
60°-70°	364.0	5.4
70°-80°	192.6	2.8
80°-90°	50.0	0.7
90°-100°	268.3	4.0
100°-110°	705.3	10.4
110°-120°	731.3	10.8
120°-130°	586.6	8.6
130°-140°	460.3	6.8
140°-150°	353.3	5.2
150°-160°	254.4	3.7
160°-170°	155.7	2.3
170°-180°	52.6	0.8
0°-30°	921.1	13.6
0°-40°	1507.6	22.2
0°-60°	2611.0	38.5
0°-90°	3217.5	47.4
90°-120°	1704.8	25.1
90°-150°	3105.0	45.8
90°-180°	3568.0	52.6
0°-180°	6785.2	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°	4	14	4	14	4	4
95°	35	162	35	162	35	39
105°	127	1104	127	1104	127	135
115°	226	1422	226	1422	226	223
125°	314	1132	314	1132	314	279
135°	374	879	374	879	374	289
145°	434	713	434	713	434	272
155°	490	614	490	614	490	225
165°	529	572	529	572	529	149
175°	550	554	550	554	550	52
180°	550	550	550	550	550	



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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°	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7	14.0	14.0
92.5°	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5	70.2	67.4
95°	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8	238.3	229.8
97.5°	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1	549.9	533.9
100°	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8	772.3	753.1
102.5°	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1	962.1	945.7
105°	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1	1183.8	1175.0
107.5°	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2	1299.1	1301.2
110°	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5	1328.5	1337.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7	1309.7	1323.8
115°	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8	1245.9	1265.4
117.5°	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7	1157.6	1179.3
120°	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3	1098.1	1119.2
122.5°	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8	1038.6	1059.4
125°	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3	959.9	979.1
127.5°	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6	896.8	913.0
130°	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1	856.9	871.8
132.5°	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5	822.9	836.3
135°	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0	774.9	786.4
137.5°	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1	739.4	748.9
140°	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3	711.0	719.8
142.5°	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0	691.0	698.7
145°	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9	661.1	666.9
147.5°	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2	636.1	640.9
150°	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5	621.6	625.4
152.5°	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9	610.1	613.1
155°	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8	596.5	598.4
157.5°	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9	584.7	586.0
160°	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0	578.8	579.6
162.5°	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3	573.2	573.9
165°	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7	564.8	565.6
167.5°	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3	561.0	561.4
170°	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3	561.0	561.0
172.5°	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4	558.1	557.8
175°	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7	554.0	554.0
177.5°	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4	553.3	553.0
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



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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°	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2	16.3	10.3
92.5°	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8	100.3	71.3
95°	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2	246.6	138.9
97.5°	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7	332.2	152.6
100°	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1	363.4	164.0
102.5°	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2	377.7	175.5
105°	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2	388.2	192.4
107.5°	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3	390.2	217.6
110°	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7	387.2	231.6



TEST NUMBER: P935274

CATALOG NUMBER: SQ4-FA-100U-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°	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3	387.3	248.6
115°	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7	390.9	274.0
117.5°	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7	398.2	298.8
120°	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3	404.0	313.2
122.5°	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4	412.6	330.2
125°	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0	424.0	352.0
127.5°	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7	435.5	373.0
130°	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6	443.8	387.1
132.5°	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0	450.6	398.5
135°	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6	458.0	411.9
137.5°	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8	469.0	428.8
140°	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3	475.9	440.3
142.5°	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2	481.6	448.8
145°	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3	488.9	461.7
147.5°	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8	499.8	477.9
150°	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8	505.4	486.4
152.5°	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9	509.1	492.0
155°	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7	517.3	504.2
157.5°	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3	525.3	516.4
160°	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6	529.1	521.9
162.5°	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9	533.0	527.8
165°	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8	538.7	536.3
167.5°	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7	543.1	541.1
170°	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9	546.7	546.7
172.5°	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7	549.2	550.4
177.5°	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3	549.5	550.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935274

CATALOG NUMBER: SQ4-FA-100U-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°	9.6	6.7	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7
92.5°	65.0	39.9	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5
95°	127.4	81.4	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8
97.5°	142.4	101.9	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1
100°	154.8	118.0	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8
102.5°	166.9	132.6	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1
105°	185.1	156.1	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1
107.5°	210.8	183.7	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2
110°	225.5	201.0	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5



TEST NUMBER: P935274

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

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	242.7	219.4	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7
115°	268.6	247.1	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8
117.5°	293.9	274.4	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7
120°	308.6	290.2	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3
122.5°	325.6	307.1	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8
125°	347.7	330.9	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3
127.5°	368.8	351.6	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6
130°	382.5	364.1	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1
132.5°	393.9	375.5	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5
135°	407.7	390.9	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0
137.5°	424.6	408.1	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1
140°	436.5	421.2	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3
142.5°	445.2	431.1	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0
145°	458.6	446.3	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9
147.5°	474.9	463.0	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2
150°	483.7	472.9	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5
152.5°	489.9	481.7	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9
155°	502.7	496.6	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8
157.5°	514.9	509.0	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9
160°	520.7	516.2	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0
162.5°	526.9	523.5	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3
165°	535.5	532.4	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7
167.5°	540.8	539.3	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3
170°	546.3	544.8	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3
172.5°	546.9	546.7	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4
175°	550.4	550.4	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7
177.5°	550.4	550.4	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935274
 CATALOG NUMBER: SQ4-FA-100U-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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2
92.5°	70.2	67.4	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8
95°	238.3	229.8	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2
97.5°	549.9	533.9	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7
100°	772.3	753.1	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1
102.5°	962.1	945.7	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2
105°	1183.8	1175.0	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2
107.5°	1299.1	1301.2	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3
110°	1328.5	1337.8	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1309.7	1323.8	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3
115°	1245.9	1265.4	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7
117.5°	1157.6	1179.3	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7
120°	1098.1	1119.2	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3
122.5°	1038.6	1059.4	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4
125°	959.9	979.1	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0
127.5°	896.8	913.0	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7
130°	856.9	871.8	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6
132.5°	822.9	836.3	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0
135°	774.9	786.4	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6
137.5°	739.4	748.9	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8
140°	711.0	719.8	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3
142.5°	691.0	698.7	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2
145°	661.1	666.9	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3
147.5°	636.1	640.9	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8
150°	621.6	625.4	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8
152.5°	610.1	613.1	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9
155°	596.5	598.4	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7
157.5°	584.7	586.0	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3
160°	578.8	579.6	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6
162.5°	573.2	573.9	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9
165°	564.8	565.6	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8
167.5°	561.0	561.4	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7
170°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9
172.5°	558.1	557.8	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7
177.5°	553.3	553.0	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



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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°	16.3	10.3	9.6	6.7	3.7
92.5°	100.3	71.3	65.0	39.9	14.7
95°	246.6	138.9	127.4	81.4	35.4
97.5°	332.2	152.6	142.4	101.9	61.3
100°	363.4	164.0	154.8	118.0	81.3
102.5°	377.7	175.5	166.9	132.6	98.2
105°	388.2	192.4	185.1	156.1	127.1
107.5°	390.2	217.6	210.8	183.7	156.6
110°	387.2	231.6	225.5	201.0	176.5



TEST NUMBER: P935274

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	387.3	248.6	242.7	219.4	196.2
115°	390.9	274.0	268.6	247.1	225.6
117.5°	398.2	298.8	293.9	274.4	254.9
120°	404.0	313.2	308.6	290.2	271.8
122.5°	412.6	330.2	325.6	307.1	288.5
125°	424.0	352.0	347.7	330.9	314.0
127.5°	435.5	373.0	368.8	351.6	334.6
130°	443.8	387.1	382.5	364.1	345.7
132.5°	450.6	398.5	393.9	375.5	357.2
135°	458.0	411.9	407.7	390.9	374.2
137.5°	469.0	428.8	424.6	408.1	391.5
140°	475.9	440.3	436.5	421.2	405.9
142.5°	481.6	448.8	445.2	431.1	417.0
145°	488.9	461.7	458.6	446.3	434.0
147.5°	499.8	477.9	474.9	463.0	451.0
150°	505.4	486.4	483.7	472.9	462.0
152.5°	509.1	492.0	489.9	481.7	473.5
155°	517.3	504.2	502.7	496.6	490.5
157.5°	525.3	516.4	514.9	509.0	503.1
160°	529.1	521.9	520.7	516.2	511.6
162.5°	533.0	527.8	526.9	523.5	520.0
165°	538.7	536.3	535.5	532.4	529.2
167.5°	543.1	541.1	540.8	539.3	537.8
170°	546.7	546.7	546.3	544.8	543.4
172.5°	547.0	547.0	546.9	546.7	546.3
175°	549.2	550.4	550.4	550.4	550.4
177.5°	549.5	550.4	550.4	550.4	550.4
180°	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935274
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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	13.04	13.88	14.02	14.87	16.18	15.84	16.67	16.81	17.67	18.97
	3H	13.51	14.26	14.50	15.27	16.60	17.17	17.92	18.16	18.92	20.25
	4H	13.70	14.42	14.71	15.42	16.76	17.61	18.32	18.61	19.32	20.66
	6H	13.82	14.48	14.84	15.49	16.84	17.88	18.54	18.90	19.55	20.90
	8H	13.82	14.45	14.84	15.47	16.82	17.95	18.57	18.97	19.60	20.95
	12H	13.79	14.39	14.82	15.41	16.78	17.98	18.58	19.01	19.60	20.97
4H	2H	14.06	14.77	15.07	15.78	17.11	16.24	16.95	17.25	17.96	19.30
	3H	15.08	15.68	16.10	16.71	18.06	17.74	18.33	18.76	19.36	20.71
	4H	15.36	15.90	16.39	16.93	18.30	18.26	18.80	19.28	19.83	21.20
	6H	15.48	15.95	16.52	17.00	18.37	18.61	19.08	19.65	20.13	21.50
	8H	15.49	15.92	16.53	16.97	18.35	18.72	19.15	19.75	20.19	21.58
	12H	15.46	15.85	16.51	16.91	18.30	18.77	19.16	19.82	20.22	21.61
8H	4H	15.81	16.24	16.84	17.28	18.67	18.38	18.82	19.42	19.86	21.24
	6H	16.07	16.43	17.13	17.51	18.89	18.81	19.17	19.87	20.25	21.63
	8H	16.11	16.43	17.18	17.49	18.90	18.96	19.27	20.02	20.34	21.74
	12H	16.09	16.37	17.17	17.43	18.88	19.05	19.33	20.12	20.39	21.83
12H	4H	15.81	16.20	16.87	17.26	18.65	18.34	18.74	19.40	19.80	21.19
	6H	16.13	16.44	17.20	17.51	18.91	18.81	19.12	19.87	20.19	21.59
	8H	16.19	16.47	17.26	17.53	18.98	18.96	19.24	20.03	20.30	21.75