

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: P935210

Luminaire Tested: SQ4-FA-100U-100D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935210
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

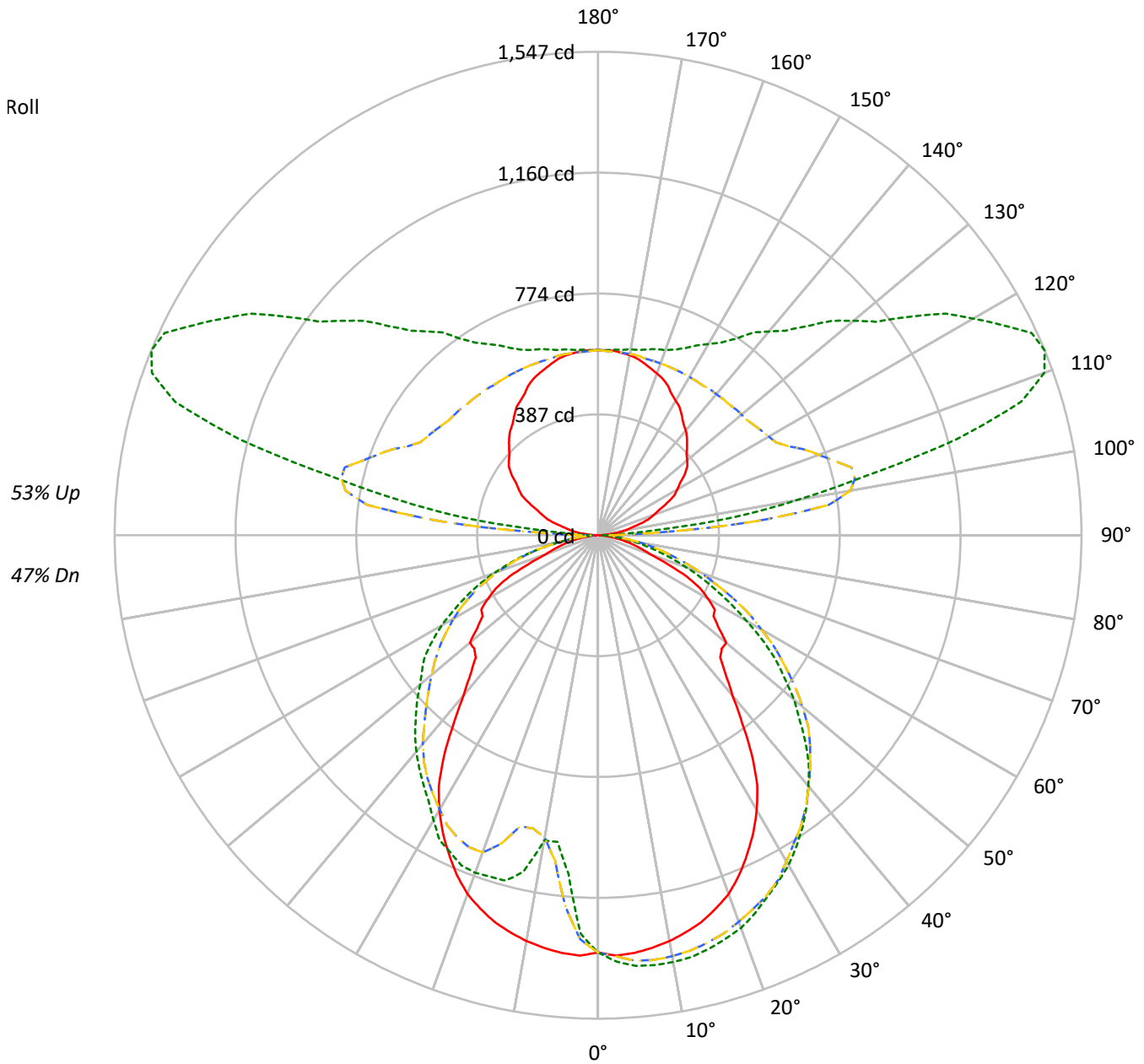
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7304.8 lumens
Efficiency: N/A
Efficacy: 125.9 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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12389	12389	12389	12389
5°	12468	12506	12468	9833
10°	12371	12319	12371	8808
15°	12222	12051	12222	10063
20°	11952	11736	11952	10084
25°	11416	11275	11416	9871
30°	10727	10892	10727	9402
35°	9548	10408	9548	8887
40°	7943	9837	7943	8497
45°	7082	9170	7082	8048
50°	7508	8374	7508	7599
55°	7043	7517	7043	7338
60°	7234	6383	7234	6722
65°	6529	5277	6529	5900
70°	4491	4206	4491	4946
75°	3892	3109	3892	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10877 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.6
10°-20°	342.2	4.7
20°-30°	528.9	7.2
30°-40°	631.4	8.6
40°-50°	635.2	8.7
50°-60°	552.7	7.6
60°-70°	391.8	5.4
70°-80°	207.3	2.8
80°-90°	53.9	0.7
90°-100°	288.8	4.0
100°-110°	759.3	10.4
110°-120°	787.3	10.8
120°-130°	631.5	8.6
130°-140°	495.5	6.8
140°-150°	380.3	5.2
150°-160°	273.9	3.7
160°-170°	167.6	2.3
170°-180°	56.6	0.8
0°-30°	991.6	13.6
0°-40°	1623.1	22.2
0°-60°	2810.9	38.5
0°-90°	3463.9	47.4
90°-120°	1835.4	25.1
90°-150°	3342.8	45.8
90°-180°	3841.0	52.6
0°-180°	7304.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1342	1383	1342	1088	1342	127
15°	1281	1370	1281	1144	1281	360
25°	1128	1278	1128	1119	1128	518
35°	858	1141	858	974	858	531
45°	553	940	553	825	553	443
55°	451	694	451	677	451	414
65°	313	418	313	467	313	299
75°	119	198	119	238	119	125
85°	20	50	20	43	20	27
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1189	137	1189	137	145
115°	243	1531	243	1531	243	240
125°	338	1219	338	1219	338	300
135°	403	946	403	946	403	312
145°	467	768	467	768	467	293
155°	528	661	528	661	528	243
165°	570	616	570	616	570	161
175°	592	596	592	596	592	56
180°	592	592	592	592	592	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1346.4	1346.4	1354.1	1356.6	1356.6	1352.7	1349.0	1352.7	1364.1	1367.9	1366.7
5°	1341.5	1351.5	1365.5	1367.9	1370.4	1369.2	1366.7	1369.2	1381.8	1384.4	1385.6
7.5°	1331.3	1350.3	1367.9	1371.8	1375.5	1371.8	1370.4	1373.0	1385.6	1388.1	1388.1
10°	1318.7	1345.2	1365.5	1367.9	1371.8	1367.9	1367.9	1373.0	1385.6	1388.1	1389.5
12.5°	1301.0	1337.6	1356.6	1359.1	1364.1	1362.9	1361.6	1366.7	1379.3	1381.8	1381.8
15°	1280.8	1323.8	1341.5	1343.9	1352.7	1350.3	1350.3	1355.3	1369.2	1373.0	1371.8
17.5°	1253.0	1306.1	1326.3	1330.1	1336.4	1335.1	1336.4	1341.5	1354.1	1356.6	1357.8
20°	1221.4	1282.1	1306.1	1309.8	1316.1	1316.1	1316.1	1322.4	1335.1	1340.1	1340.1
22.5°	1178.5	1256.8	1282.1	1284.6	1292.1	1292.1	1294.7	1303.5	1314.9	1316.1	1316.1
25°	1128.0	1229.0	1250.4	1258.1	1265.6	1269.4	1273.2	1278.3	1282.1	1280.8	1282.1
27.5°	1074.9	1193.7	1221.4	1226.5	1236.6	1240.4	1245.4	1246.7	1248.0	1251.7	1249.2
30°	1015.6	1144.3	1186.0	1191.1	1207.5	1210.0	1205.0	1207.5	1213.8	1216.4	1218.9
32.5°	948.5	1071.1	1149.4	1160.8	1176.0	1168.3	1167.1	1170.9	1181.0	1181.0	1183.5
35°	857.6	1014.3	1115.4	1125.4	1136.8	1128.0	1133.0	1134.3	1140.6	1144.3	1143.1
37.5°	757.8	965.0	1080.0	1087.5	1096.3	1085.0	1092.6	1096.3	1101.4	1098.9	1098.9
40°	669.5	887.9	1038.3	1043.3	1050.9	1042.0	1049.6	1052.2	1054.7	1052.2	1050.9
42.5°	603.8	803.3	994.0	1000.4	995.3	1001.6	1004.2	1009.2	1005.4	1000.4	1000.4
45°	553.2	780.6	946.1	953.6	946.1	956.2	959.9	959.9	948.5	946.1	944.8
47.5°	536.8	735.2	898.1	898.1	894.2	906.9	913.3	904.4	893.0	889.3	889.3
50°	535.6	684.6	832.4	827.3	845.0	860.2	853.9	845.0	836.2	822.3	822.3
52.5°	486.3	622.7	747.8	766.7	794.5	803.3	793.2	784.4	769.2	762.9	757.8
55°	450.9	558.3	670.7	708.6	737.6	749.0	730.1	721.2	698.5	694.7	692.1
57.5°	443.4	464.8	600.0	648.0	683.3	682.1	670.7	654.3	635.4	631.5	630.3
60°	406.7	335.9	524.2	581.1	617.7	613.8	603.8	588.6	570.9	568.4	565.9
62.5°	368.8	243.8	438.3	502.8	554.5	553.2	544.4	521.7	509.1	502.8	497.7
65°	313.3	204.6	311.9	418.1	492.6	495.1	476.2	459.7	445.9	438.3	437.0
67.5°	238.7	166.7	210.9	348.7	433.3	430.7	406.7	399.1	381.4	377.6	370.1
70°	176.9	111.2	146.6	283.0	375.1	368.8	349.9	341.0	324.7	315.8	310.7
72.5°	146.6	89.7	107.4	219.8	315.8	308.2	291.8	281.6	267.8	260.2	255.2
75°	118.7	94.7	82.1	162.9	256.4	251.3	236.2	226.1	214.7	204.6	205.9
77.5°	87.2	88.4	65.7	120.0	203.3	195.8	186.9	174.3	169.2	159.2	159.2
80°	65.7	69.5	49.2	82.1	146.6	146.6	138.9	130.1	121.2	116.2	116.2
82.5°	44.2	44.2	36.6	51.8	99.8	96.0	90.9	88.4	83.4	80.9	80.9
85°	20.2	25.2	22.8	31.5	54.3	56.9	56.9	54.3	53.1	50.5	51.8
87.5°	6.3	11.4	13.9	17.7	27.8	29.1	30.3	30.3	30.3	31.5	31.5
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2	15.1	15.1
92.5°	15.9	42.9	70.0	76.8	107.9	149.4	170.2	149.1	107.1	75.5	72.6
95°	38.1	87.7	137.2	149.5	265.5	420.1	497.4	443.9	336.8	256.5	247.4
97.5°	66.0	109.7	153.3	164.2	357.6	615.5	744.3	710.5	642.8	592.1	574.7
100°	87.5	127.1	166.6	176.6	391.2	677.3	820.3	822.8	827.7	831.4	810.8
102.5°	105.7	142.7	179.6	188.9	406.6	696.7	841.9	885.0	971.2	1035.8	1018.1
105°	136.8	168.1	199.3	207.2	418.0	698.9	839.5	936.1	1129.4	1274.4	1265.0
107.5°	168.6	197.8	227.0	234.2	420.1	667.8	791.7	926.6	1196.2	1398.5	1400.8
110°	190.1	216.4	242.7	249.3	416.8	640.2	751.9	902.7	1204.2	1430.3	1440.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.2	236.2	261.3	267.6	417.0	616.1	715.8	870.1	1178.6	1410.0	1425.2
115°	242.9	266.1	289.2	295.0	420.8	588.6	672.5	821.1	1118.3	1341.3	1362.3
117.5°	274.4	295.4	316.4	321.7	428.7	571.3	642.6	776.8	1045.0	1246.2	1269.6
120°	292.6	312.4	332.2	337.2	435.0	565.5	630.7	753.2	998.4	1182.2	1204.9
122.5°	310.6	330.6	350.6	355.5	444.2	562.4	621.5	731.8	952.6	1118.1	1140.5
125°	338.0	356.2	374.4	379.0	456.5	559.8	611.6	705.3	892.8	1033.4	1054.1
127.5°	360.2	378.6	397.0	401.6	468.8	558.4	603.2	683.7	844.7	965.5	982.9
130°	372.2	392.0	411.7	416.7	477.8	559.4	600.1	671.8	815.1	922.5	938.6
132.5°	384.5	404.3	424.1	429.1	485.1	559.8	597.2	661.4	789.7	885.9	900.4
135°	402.9	420.8	438.9	443.4	493.1	559.4	592.5	646.3	753.6	834.2	846.6
137.5°	421.5	439.4	457.2	461.7	505.0	562.8	591.7	637.1	727.9	796.1	806.2
140°	437.0	453.4	469.9	474.0	512.3	563.4	588.9	628.1	706.6	765.5	774.9
142.5°	448.9	464.1	479.3	483.2	518.4	565.4	588.9	623.3	692.2	744.0	752.2
145°	467.2	480.5	493.7	497.0	526.4	565.5	585.0	613.2	669.5	711.7	718.0
147.5°	485.6	498.5	511.3	514.5	538.0	569.3	585.0	607.2	651.5	684.8	689.9
150°	497.4	509.1	520.7	523.7	544.2	571.4	585.0	603.7	641.1	669.2	673.3
152.5°	509.7	518.5	527.4	529.6	548.1	572.6	585.0	600.9	632.9	656.9	660.0
155°	528.1	534.6	541.2	542.8	556.9	575.6	585.0	597.7	623.1	642.1	644.2
157.5°	541.6	548.0	554.3	555.9	565.6	578.5	585.0	594.8	614.6	629.4	630.9
160°	550.8	555.7	560.6	561.8	569.6	579.8	585.0	593.5	610.4	623.1	624.0
162.5°	559.8	563.6	567.3	568.2	573.8	581.2	585.0	592.1	606.4	617.1	617.9
165°	569.8	573.1	576.5	577.3	579.9	583.3	585.0	590.1	600.4	608.0	608.9
167.5°	579.0	580.6	582.2	582.6	584.7	587.5	588.9	592.2	598.9	604.0	604.4
170°	585.0	586.5	588.1	588.5	588.6	588.8	588.9	592.2	598.9	604.0	604.0
172.5°	588.1	588.5	588.8	588.9	588.9	588.9	588.9	591.6	596.8	600.8	600.6
175°	592.5	592.5	592.5	592.5	591.3	589.7	588.9	590.6	594.0	596.4	596.4
177.5°	592.5	592.5	592.5	592.5	591.6	590.3	589.7	591.0	593.7	595.7	595.3
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1369.2	1365.5	1369.2	1366.7	1367.9	1364.1	1352.7	1349.0	1352.7	1356.6	1356.6
5°	1385.6	1383.1	1385.6	1385.6	1384.4	1381.8	1369.2	1366.7	1369.2	1370.4	1367.9
7.5°	1390.7	1386.9	1390.7	1388.1	1388.1	1385.6	1373.0	1370.4	1371.8	1375.5	1371.8
10°	1390.7	1386.9	1390.7	1389.5	1388.1	1385.6	1373.0	1367.9	1367.9	1371.8	1367.9
12.5°	1384.4	1381.8	1384.4	1381.8	1381.8	1379.3	1366.7	1361.6	1362.9	1364.1	1359.1
15°	1374.2	1370.4	1374.2	1371.8	1373.0	1369.2	1355.3	1350.3	1350.3	1352.7	1343.9
17.5°	1359.1	1354.1	1359.1	1357.8	1356.6	1354.1	1341.5	1336.4	1335.1	1336.4	1330.1
20°	1341.5	1337.6	1341.5	1340.1	1340.1	1335.1	1322.4	1316.1	1316.1	1316.1	1309.8
22.5°	1313.6	1309.8	1313.6	1316.1	1316.1	1314.9	1303.5	1294.7	1292.1	1292.1	1284.6
25°	1282.1	1278.3	1282.1	1282.1	1280.8	1282.1	1278.3	1273.2	1269.4	1265.6	1258.1
27.5°	1251.7	1249.2	1251.7	1249.2	1251.7	1248.0	1246.7	1245.4	1240.4	1236.6	1226.5
30°	1221.4	1218.9	1221.4	1218.9	1216.4	1213.8	1207.5	1205.0	1210.0	1207.5	1191.1
32.5°	1183.5	1181.0	1183.5	1183.5	1181.0	1181.0	1170.9	1167.1	1168.3	1176.0	1160.8
35°	1144.3	1140.6	1144.3	1143.1	1144.3	1140.6	1134.3	1133.0	1128.0	1136.8	1125.4
37.5°	1098.9	1095.1	1098.9	1098.9	1098.9	1101.4	1096.3	1092.6	1085.0	1096.3	1087.5
40°	1052.2	1047.1	1052.2	1050.9	1052.2	1054.7	1052.2	1049.6	1042.0	1050.9	1043.3
42.5°	999.1	997.9	999.1	1000.4	1000.4	1005.4	1009.2	1004.2	1001.6	995.3	1000.4
45°	942.2	939.7	942.2	944.8	946.1	948.5	959.9	959.9	956.2	946.1	953.6
47.5°	881.6	875.3	881.6	889.3	889.3	893.0	904.4	913.3	906.9	894.2	898.1
50°	817.2	818.5	817.2	822.3	822.3	836.2	845.0	853.9	860.2	845.0	827.3
52.5°	754.1	752.8	754.1	757.8	762.9	769.2	784.4	793.2	803.3	794.5	766.7
55°	690.9	693.5	690.9	692.1	694.7	698.5	721.2	730.1	749.0	737.6	708.6
57.5°	627.8	624.0	627.8	630.3	631.5	635.4	654.3	670.7	682.1	683.3	648.0
60°	554.5	549.4	554.5	565.9	568.4	570.9	588.6	603.8	613.8	617.7	581.1
62.5°	490.0	481.3	490.0	497.7	502.8	509.1	521.7	544.4	553.2	554.5	502.8
65°	421.9	418.1	421.9	437.0	438.3	445.9	459.7	476.2	495.1	492.6	418.1
67.5°	360.0	360.0	360.0	370.1	377.6	381.4	399.1	406.7	430.7	433.3	348.7
70°	303.1	301.9	303.1	310.7	315.8	324.7	341.0	349.9	368.8	375.1	283.0
72.5°	248.8	247.6	248.8	255.2	260.2	267.8	281.6	291.8	308.2	315.8	219.8
75°	200.9	198.3	200.9	205.9	204.6	214.7	226.1	236.2	251.3	256.4	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.3	120.0
80°	114.9	113.7	114.9	116.2	116.2	121.2	130.1	138.9	146.6	146.6	82.1
82.5°	80.9	78.3	80.9	80.9	80.9	83.4	88.4	90.9	96.0	99.8	51.8
85°	50.5	50.5	50.5	51.8	50.5	53.1	54.3	56.9	56.9	54.3	31.5
87.5°	32.9	31.5	32.9	31.5	31.5	30.3	30.3	30.3	29.1	27.8	17.7
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0	17.5	11.1
92.5°	60.5	48.5	60.5	72.6	75.5	107.1	149.1	170.2	149.4	107.9	76.8
95°	211.0	174.6	211.0	247.4	256.5	336.8	443.9	497.4	420.1	265.5	149.5
97.5°	505.4	436.2	505.4	574.7	592.1	642.8	710.5	744.3	615.5	357.6	164.2
100°	728.3	645.8	728.3	810.8	831.4	827.7	822.8	820.3	677.3	391.2	176.6
102.5°	947.5	876.8	947.5	1018.1	1035.8	971.2	885.0	841.9	696.7	406.6	188.9
105°	1226.9	1189.0	1226.9	1265.0	1274.4	1129.4	936.1	839.5	698.9	418.0	207.2
107.5°	1410.0	1419.2	1410.0	1400.8	1398.5	1196.2	926.6	791.7	667.8	420.1	234.2
110°	1479.8	1519.4	1479.8	1440.2	1430.3	1204.2	902.7	751.9	640.2	416.8	249.3



TEST NUMBER: P935210

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1486.0	1546.8	1486.0	1425.2	1410.0	1178.6	870.1	715.8	616.1	417.0	267.6
115°	1446.6	1530.9	1446.6	1362.3	1341.3	1118.3	821.1	672.5	588.6	420.8	295.0
117.5°	1363.1	1456.6	1363.1	1269.6	1246.2	1045.0	776.8	642.6	571.3	428.7	321.7
120°	1295.8	1386.6	1295.8	1204.9	1182.2	998.4	753.2	630.7	565.5	435.0	337.2
122.5°	1230.2	1319.8	1230.2	1140.5	1118.1	952.6	731.8	621.5	562.4	444.2	355.5
125°	1136.6	1219.2	1136.6	1054.1	1033.4	892.8	705.3	611.6	559.8	456.5	379.0
127.5°	1052.6	1122.2	1052.6	982.9	965.5	844.7	683.7	603.2	558.4	468.8	401.6
130°	1002.9	1067.3	1002.9	938.6	922.5	815.1	671.8	600.1	559.4	477.8	416.7
132.5°	957.9	1015.6	957.9	900.4	885.9	789.7	661.4	597.2	559.8	485.1	429.1
135°	896.2	946.0	896.2	846.6	834.2	753.6	646.3	592.5	559.4	493.1	443.4
137.5°	846.9	887.6	846.9	806.2	796.1	727.9	637.1	591.7	562.8	505.0	461.7
140°	813.0	850.9	813.0	774.9	765.5	706.6	628.1	588.9	563.4	512.3	474.0
142.5°	784.9	817.6	784.9	752.2	744.0	692.2	623.3	588.9	565.4	518.4	483.2
145°	742.7	767.5	742.7	718.0	711.7	669.5	613.2	585.0	565.5	526.4	497.0
147.5°	710.4	730.9	710.4	689.9	684.8	651.5	607.2	585.0	569.3	538.0	514.5
150°	689.9	706.6	689.9	673.3	669.2	641.1	603.7	585.0	571.4	544.2	523.7
152.5°	672.5	685.2	672.5	660.0	656.9	632.9	600.9	585.0	572.6	548.1	529.6
155°	652.6	660.9	652.6	644.2	642.1	623.1	597.7	585.0	575.6	556.9	542.8
157.5°	636.8	642.6	636.8	630.9	629.4	614.6	594.8	585.0	578.5	565.6	555.9
160°	627.3	630.7	627.3	624.0	623.1	610.4	593.5	585.0	579.8	569.6	561.8
162.5°	621.1	624.3	621.1	617.9	617.1	606.4	592.1	585.0	581.2	573.8	568.2
165°	612.2	615.6	612.2	608.9	608.0	600.4	590.1	585.0	583.3	579.9	577.3
167.5°	605.7	607.2	605.7	604.4	604.0	598.9	592.2	588.9	587.5	584.7	582.6
170°	604.0	604.0	604.0	604.0	604.0	598.9	592.2	588.9	588.8	588.6	588.5
172.5°	599.3	598.1	599.3	600.6	600.8	596.8	591.6	588.9	588.9	588.9	588.9
175°	596.4	596.4	596.4	596.4	596.4	594.0	590.6	588.9	589.7	591.3	592.5
177.5°	594.0	592.5	594.0	595.3	595.7	593.7	591.0	589.7	590.3	591.6	592.5
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935210

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1354.1	1346.4	1346.4	1333.8	1328.7	1325.0	1318.7	1299.8	1294.7	1289.6	1297.2
5°	1365.5	1351.5	1341.5	1318.7	1299.8	1292.1	1268.1	1222.7	1192.3	1169.7	1157.0
7.5°	1367.9	1350.3	1331.3	1296.0	1250.4	1230.3	1157.0	1073.7	1050.9	1030.7	1018.0
10°	1365.5	1345.2	1318.7	1265.6	1158.3	1122.9	1049.6	995.3	981.4	977.6	981.4
12.5°	1356.6	1337.6	1301.0	1212.6	1062.3	1038.3	995.3	963.7	961.3	967.6	1001.6
15°	1341.5	1323.8	1280.8	1141.8	1009.2	991.6	961.3	949.9	963.7	1007.9	1110.3
17.5°	1326.3	1306.1	1253.0	1072.3	968.8	956.2	934.7	957.4	1035.7	1095.1	1129.2
20°	1306.1	1282.1	1221.4	1021.9	939.7	928.4	918.2	1020.6	1080.0	1101.4	1120.3
22.5°	1282.1	1256.8	1178.5	986.5	909.4	900.6	906.9	1056.0	1080.0	1095.1	1111.5
25°	1250.4	1229.0	1128.0	958.7	885.4	875.3	899.3	1052.2	1066.0	1069.9	1102.7
27.5°	1221.4	1193.7	1074.9	933.4	856.4	852.6	905.6	1035.7	1045.9	1049.6	1085.0
30°	1186.0	1144.3	1015.6	906.9	826.1	824.8	906.9	1015.6	1013.0	1023.1	1058.5
32.5°	1149.4	1071.1	948.5	874.1	797.0	795.8	898.1	985.3	982.7	996.6	1023.1
35°	1115.4	1014.3	857.6	836.2	760.4	761.6	876.6	949.9	951.1	963.7	980.2
37.5°	1080.0	965.0	757.8	794.5	725.0	725.0	847.5	917.0	914.5	918.2	941.0
40°	1038.3	887.9	669.5	740.1	692.1	688.4	812.2	881.6	872.8	871.6	903.1
42.5°	994.0	803.3	603.8	668.1	654.3	649.2	769.2	838.7	822.3	826.1	866.5
45°	946.1	780.6	553.2	564.6	615.1	611.4	722.4	789.5	778.1	788.2	829.9
47.5°	898.1	735.2	536.8	468.6	573.4	572.2	670.7	741.5	735.2	745.2	789.5
50°	832.4	684.6	535.6	401.7	526.8	531.7	608.8	694.7	694.7	703.5	750.3
52.5°	747.8	622.7	486.3	363.8	472.4	487.6	554.5	654.3	656.8	665.7	707.3
55°	670.7	558.3	450.9	334.7	408.0	440.8	501.4	612.6	617.7	626.5	664.4
57.5°	600.0	464.8	443.4	300.7	348.7	380.2	454.7	572.2	574.7	582.3	618.9
60°	524.2	335.9	406.7	264.0	296.8	320.8	411.7	524.2	533.1	538.0	569.7
62.5°	438.3	243.8	368.8	238.7	271.6	276.7	376.4	478.7	490.0	493.9	512.8
65°	311.9	204.6	313.3	217.3	245.0	246.3	338.5	432.0	442.1	448.4	462.3
67.5°	210.9	166.7	238.7	197.0	224.9	226.1	301.9	377.6	391.6	396.6	405.4
70°	146.6	111.2	176.9	175.6	202.1	204.6	262.7	328.4	341.0	344.8	349.9
72.5°	107.4	89.7	146.6	157.9	178.1	180.6	222.3	272.8	285.5	289.3	291.8
75°	82.1	94.7	118.7	137.7	151.5	152.9	181.9	222.3	231.2	233.6	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.7	171.8	179.3	179.3	179.3
80°	49.2	69.5	65.7	79.5	90.9	88.4	102.3	122.6	125.0	127.5	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.5	79.5	79.5	82.1
85°	22.8	25.2	20.2	26.5	34.1	32.9	37.9	42.9	44.2	44.2	41.7
87.5°	13.9	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2
92.5°	70.0	42.9	15.9	42.9	70.0	76.8	107.9	149.4	170.2	149.1	107.1
95°	137.2	87.7	38.1	87.7	137.2	149.5	265.5	420.1	497.4	443.9	336.8
97.5°	153.3	109.7	66.0	109.7	153.3	164.2	357.6	615.5	744.3	710.5	642.8
100°	166.6	127.1	87.5	127.1	166.6	176.6	391.2	677.3	820.3	822.8	827.7
102.5°	179.6	142.7	105.7	142.7	179.6	188.9	406.6	696.7	841.9	885.0	971.2
105°	199.3	168.1	136.8	168.1	199.3	207.2	418.0	698.9	839.5	936.1	1129.4
107.5°	227.0	197.8	168.6	197.8	227.0	234.2	420.1	667.8	791.7	926.6	1196.2
110°	242.7	216.4	190.1	216.4	242.7	249.3	416.8	640.2	751.9	902.7	1204.2



TEST NUMBER: P935210

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.3	236.2	211.2	236.2	261.3	267.6	417.0	616.1	715.8	870.1	1178.6
115°	289.2	266.1	242.9	266.1	289.2	295.0	420.8	588.6	672.5	821.1	1118.3
117.5°	316.4	295.4	274.4	295.4	316.4	321.7	428.7	571.3	642.6	776.8	1045.0
120°	332.2	312.4	292.6	312.4	332.2	337.2	435.0	565.5	630.7	753.2	998.4
122.5°	350.6	330.6	310.6	330.6	350.6	355.5	444.2	562.4	621.5	731.8	952.6
125°	374.4	356.2	338.0	356.2	374.4	379.0	456.5	559.8	611.6	705.3	892.8
127.5°	397.0	378.6	360.2	378.6	397.0	401.6	468.8	558.4	603.2	683.7	844.7
130°	411.7	392.0	372.2	392.0	411.7	416.7	477.8	559.4	600.1	671.8	815.1
132.5°	424.1	404.3	384.5	404.3	424.1	429.1	485.1	559.8	597.2	661.4	789.7
135°	438.9	420.8	402.9	420.8	438.9	443.4	493.1	559.4	592.5	646.3	753.6
137.5°	457.2	439.4	421.5	439.4	457.2	461.7	505.0	562.8	591.7	637.1	727.9
140°	469.9	453.4	437.0	453.4	469.9	474.0	512.3	563.4	588.9	628.1	706.6
142.5°	479.3	464.1	448.9	464.1	479.3	483.2	518.4	565.4	588.9	623.3	692.2
145°	493.7	480.5	467.2	480.5	493.7	497.0	526.4	565.5	585.0	613.2	669.5
147.5°	511.3	498.5	485.6	498.5	511.3	514.5	538.0	569.3	585.0	607.2	651.5
150°	520.7	509.1	497.4	509.1	520.7	523.7	544.2	571.4	585.0	603.7	641.1
152.5°	527.4	518.5	509.7	518.5	527.4	529.6	548.1	572.6	585.0	600.9	632.9
155°	541.2	534.6	528.1	534.6	541.2	542.8	556.9	575.6	585.0	597.7	623.1
157.5°	554.3	548.0	541.6	548.0	554.3	555.9	565.6	578.5	585.0	594.8	614.6
160°	560.6	555.7	550.8	555.7	560.6	561.8	569.6	579.8	585.0	593.5	610.4
162.5°	567.3	563.6	559.8	563.6	567.3	568.2	573.8	581.2	585.0	592.1	606.4
165°	576.5	573.1	569.8	573.1	576.5	577.3	579.9	583.3	585.0	590.1	600.4
167.5°	582.2	580.6	579.0	580.6	582.2	582.6	584.7	587.5	588.9	592.2	598.9
170°	588.1	586.5	585.0	586.5	588.1	588.5	588.6	588.8	588.9	592.2	598.9
172.5°	588.8	588.5	588.1	588.5	588.8	588.9	588.9	588.9	588.9	591.6	596.8
175°	592.5	592.5	592.5	592.5	592.5	592.5	591.3	589.7	588.9	590.6	594.0
177.5°	592.5	592.5	592.5	592.5	592.5	592.5	591.6	590.3	589.7	591.0	593.7
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



TEST NUMBER: P935210
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1288.4	1284.6	1289.6	1275.7	1289.6	1284.6	1288.4	1297.2	1289.6	1294.7	1299.8
5°	1130.5	1124.2	1104.0	1087.5	1104.0	1124.2	1130.5	1157.0	1169.7	1192.3	1222.7
7.5°	1010.5	1005.4	1000.4	990.2	1000.4	1005.4	1010.5	1018.0	1030.7	1050.9	1073.7
10°	983.9	985.3	992.8	991.6	992.8	985.3	983.9	981.4	977.6	981.4	995.3
12.5°	1052.2	1063.6	1105.2	1102.7	1105.2	1063.6	1052.2	1001.6	967.6	961.3	963.7
15°	1130.5	1134.3	1143.1	1144.3	1143.1	1134.3	1130.5	1110.3	1007.9	963.7	949.9
17.5°	1138.0	1139.4	1145.7	1145.7	1145.7	1139.4	1138.0	1129.2	1095.1	1035.7	957.4
20°	1131.7	1134.3	1146.9	1149.4	1146.9	1134.3	1131.7	1120.3	1101.4	1080.0	1020.6
22.5°	1129.2	1134.3	1144.3	1143.1	1144.3	1134.3	1129.2	1111.5	1095.1	1080.0	1056.0
25°	1116.6	1116.6	1117.9	1119.1	1117.9	1116.6	1116.6	1102.7	1069.9	1066.0	1052.2
27.5°	1090.0	1092.6	1100.2	1098.9	1100.2	1092.6	1090.0	1085.0	1049.6	1045.9	1035.7
30°	1066.0	1063.6	1057.2	1052.2	1057.2	1063.6	1066.0	1058.5	1023.1	1013.0	1015.6
32.5°	1025.6	1019.3	1013.0	1009.2	1013.0	1019.3	1025.6	1023.1	996.6	982.7	985.3
35°	977.6	978.9	977.6	973.9	977.6	978.9	977.6	980.2	963.7	951.1	949.9
37.5°	943.6	946.1	944.8	939.7	944.8	946.1	943.6	941.0	918.2	914.5	917.0
40°	908.2	909.4	908.2	904.4	908.2	909.4	908.2	903.1	871.6	872.8	881.6
42.5°	874.1	872.8	869.0	866.5	869.0	872.8	874.1	866.5	826.1	822.3	838.7
45°	834.9	836.2	828.6	824.8	828.6	836.2	834.9	829.9	788.2	778.1	789.5
47.5°	795.8	795.8	789.5	785.6	789.5	795.8	795.8	789.5	745.2	735.2	741.5
50°	754.1	752.8	744.0	742.7	744.0	752.8	754.1	750.3	703.5	694.7	694.7
52.5°	706.1	706.1	707.3	709.8	707.3	706.1	706.1	707.3	665.7	656.8	654.3
55°	664.4	665.7	674.5	677.0	674.5	665.7	664.4	664.4	626.5	617.7	612.6
57.5°	621.4	621.4	627.8	627.8	627.8	621.4	621.4	618.9	582.3	574.7	572.2
60°	572.2	574.7	579.7	578.5	579.7	574.7	572.2	569.7	538.0	533.1	524.2
62.5°	520.4	522.9	524.2	521.7	524.2	522.9	520.4	512.8	493.9	490.0	478.7
65°	466.0	468.6	469.9	467.4	469.9	468.6	466.0	462.3	448.4	442.1	432.0
67.5°	410.5	409.3	408.0	413.0	408.0	409.3	410.5	405.4	396.6	391.6	377.6
70°	353.6	353.6	352.4	355.0	352.4	353.6	353.6	349.9	344.8	341.0	328.4
72.5°	293.0	291.8	296.8	293.0	296.8	291.8	293.0	291.8	289.3	285.5	272.8
75°	233.6	236.2	233.6	237.5	233.6	236.2	233.6	234.9	233.6	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.3	179.3	179.3	171.8
80°	126.3	125.0	125.0	123.8	125.0	125.0	126.3	126.3	127.5	125.0	122.6
82.5°	80.9	79.5	79.5	82.1	79.5	79.5	80.9	82.1	79.5	79.5	79.5
85°	44.2	45.5	42.9	42.9	42.9	45.5	44.2	41.7	44.2	44.2	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0
92.5°	75.5	72.6	60.5	48.5	60.5	72.6	75.5	107.1	149.1	170.2	149.4
95°	256.5	247.4	211.0	174.6	211.0	247.4	256.5	336.8	443.9	497.4	420.1
97.5°	592.1	574.7	505.4	436.2	505.4	574.7	592.1	642.8	710.5	744.3	615.5
100°	831.4	810.8	728.3	645.8	728.3	810.8	831.4	827.7	822.8	820.3	677.3
102.5°	1035.8	1018.1	947.5	876.8	947.5	1018.1	1035.8	971.2	885.0	841.9	696.7
105°	1274.4	1265.0	1226.9	1189.0	1226.9	1265.0	1274.4	1129.4	936.1	839.5	698.9
107.5°	1398.5	1400.8	1410.0	1419.2	1410.0	1400.8	1398.5	1196.2	926.6	791.7	667.8
110°	1430.3	1440.2	1479.8	1519.4	1479.8	1440.2	1430.3	1204.2	902.7	751.9	640.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1410.0	1425.2	1486.0	1546.8	1486.0	1425.2	1410.0	1178.6	870.1	715.8	616.1
115°	1341.3	1362.3	1446.6	1530.9	1446.6	1362.3	1341.3	1118.3	821.1	672.5	588.6
117.5°	1246.2	1269.6	1363.1	1456.6	1363.1	1269.6	1246.2	1045.0	776.8	642.6	571.3
120°	1182.2	1204.9	1295.8	1386.6	1295.8	1204.9	1182.2	998.4	753.2	630.7	565.5
122.5°	1118.1	1140.5	1230.2	1319.8	1230.2	1140.5	1118.1	952.6	731.8	621.5	562.4
125°	1033.4	1054.1	1136.6	1219.2	1136.6	1054.1	1033.4	892.8	705.3	611.6	559.8
127.5°	965.5	982.9	1052.6	1122.2	1052.6	982.9	965.5	844.7	683.7	603.2	558.4
130°	922.5	938.6	1002.9	1067.3	1002.9	938.6	922.5	815.1	671.8	600.1	559.4
132.5°	885.9	900.4	957.9	1015.6	957.9	900.4	885.9	789.7	661.4	597.2	559.8
135°	834.2	846.6	896.2	946.0	896.2	846.6	834.2	753.6	646.3	592.5	559.4
137.5°	796.1	806.2	846.9	887.6	846.9	806.2	796.1	727.9	637.1	591.7	562.8
140°	765.5	774.9	813.0	850.9	813.0	774.9	765.5	706.6	628.1	588.9	563.4
142.5°	744.0	752.2	784.9	817.6	784.9	752.2	744.0	692.2	623.3	588.9	565.4
145°	711.7	718.0	742.7	767.5	742.7	718.0	711.7	669.5	613.2	585.0	565.5
147.5°	684.8	689.9	710.4	730.9	710.4	689.9	684.8	651.5	607.2	585.0	569.3
150°	669.2	673.3	689.9	706.6	689.9	673.3	669.2	641.1	603.7	585.0	571.4
152.5°	656.9	660.0	672.5	685.2	672.5	660.0	656.9	632.9	600.9	585.0	572.6
155°	642.1	644.2	652.6	660.9	652.6	644.2	642.1	623.1	597.7	585.0	575.6
157.5°	629.4	630.9	636.8	642.6	636.8	630.9	629.4	614.6	594.8	585.0	578.5
160°	623.1	624.0	627.3	630.7	627.3	624.0	623.1	610.4	593.5	585.0	579.8
162.5°	617.1	617.9	621.1	624.3	621.1	617.9	617.1	606.4	592.1	585.0	581.2
165°	608.0	608.9	612.2	615.6	612.2	608.9	608.0	600.4	590.1	585.0	583.3
167.5°	604.0	604.4	605.7	607.2	605.7	604.4	604.0	598.9	592.2	588.9	587.5
170°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	598.9	592.2	588.9	588.8
172.5°	600.8	600.6	599.3	598.1	599.3	600.6	600.8	596.8	591.6	588.9	588.9
175°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	594.0	590.6	588.9	589.7
177.5°	595.7	595.3	594.0	592.5	594.0	595.3	595.7	593.7	591.0	589.7	590.3
180°	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5	592.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1318.7	1325.0	1328.7	1333.8	1346.4
5°	1268.1	1292.1	1299.8	1318.7	1341.5
7.5°	1157.0	1230.3	1250.4	1296.0	1331.3
10°	1049.6	1122.9	1158.3	1265.6	1318.7
12.5°	995.3	1038.3	1062.3	1212.6	1301.0
15°	961.3	991.6	1009.2	1141.8	1280.8
17.5°	934.7	956.2	968.8	1072.3	1253.0
20°	918.2	928.4	939.7	1021.9	1221.4
22.5°	906.9	900.6	909.4	986.5	1178.5
25°	899.3	875.3	885.4	958.7	1128.0
27.5°	905.6	852.6	856.4	933.4	1074.9
30°	906.9	824.8	826.1	906.9	1015.6
32.5°	898.1	795.8	797.0	874.1	948.5
35°	876.6	761.6	760.4	836.2	857.6
37.5°	847.5	725.0	725.0	794.5	757.8
40°	812.2	688.4	692.1	740.1	669.5
42.5°	769.2	649.2	654.3	668.1	603.8
45°	722.4	611.4	615.1	564.6	553.2
47.5°	670.7	572.2	573.4	468.6	536.8
50°	608.8	531.7	526.8	401.7	535.6
52.5°	554.5	487.6	472.4	363.8	486.3
55°	501.4	440.8	408.0	334.7	450.9
57.5°	454.7	380.2	348.7	300.7	443.4
60°	411.7	320.8	296.8	264.0	406.7
62.5°	376.4	276.7	271.6	238.7	368.8
65°	338.5	246.3	245.0	217.3	313.3
67.5°	301.9	226.1	224.9	197.0	238.7
70°	262.7	204.6	202.1	175.6	176.9
72.5°	222.3	180.6	178.1	157.9	146.6
75°	181.9	152.9	151.5	137.7	118.7
77.5°	142.7	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.5	65.7
82.5°	68.2	58.1	60.6	50.5	44.2
85°	37.9	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	17.5	11.1	10.3	7.2	4.0
92.5°	107.9	76.8	70.0	42.9	15.9
95°	265.5	149.5	137.2	87.7	38.1
97.5°	357.6	164.2	153.3	109.7	66.0
100°	391.2	176.6	166.6	127.1	87.5
102.5°	406.6	188.9	179.6	142.7	105.7
105°	418.0	207.2	199.3	168.1	136.8
107.5°	420.1	234.2	227.0	197.8	168.6
110°	416.8	249.3	242.7	216.4	190.1



TEST NUMBER: P935210

CATALOG NUMBER: SQ4-FA-100U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	417.0	267.6	261.3	236.2	211.2
115°	420.8	295.0	289.2	266.1	242.9
117.5°	428.7	321.7	316.4	295.4	274.4
120°	435.0	337.2	332.2	312.4	292.6
122.5°	444.2	355.5	350.6	330.6	310.6
125°	456.5	379.0	374.4	356.2	338.0
127.5°	468.8	401.6	397.0	378.6	360.2
130°	477.8	416.7	411.7	392.0	372.2
132.5°	485.1	429.1	424.1	404.3	384.5
135°	493.1	443.4	438.9	420.8	402.9
137.5°	505.0	461.7	457.2	439.4	421.5
140°	512.3	474.0	469.9	453.4	437.0
142.5°	518.4	483.2	479.3	464.1	448.9
145°	526.4	497.0	493.7	480.5	467.2
147.5°	538.0	514.5	511.3	498.5	485.6
150°	544.2	523.7	520.7	509.1	497.4
152.5°	548.1	529.6	527.4	518.5	509.7
155°	556.9	542.8	541.2	534.6	528.1
157.5°	565.6	555.9	554.3	548.0	541.6
160°	569.6	561.8	560.6	555.7	550.8
162.5°	573.8	568.2	567.3	563.6	559.8
165°	579.9	577.3	576.5	573.1	569.8
167.5°	584.7	582.6	582.2	580.6	579.0
170°	588.6	588.5	588.1	586.5	585.0
172.5°	588.9	588.9	588.8	588.5	588.1
175°	591.3	592.5	592.5	592.5	592.5
177.5°	591.6	592.5	592.5	592.5	592.5
180°	592.5	592.5	592.5	592.5	592.5



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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	13.29	14.13	14.27	15.13	16.43	16.09	16.93	17.07	17.92	19.23
	3H	13.77	14.52	14.76	15.52	16.85	17.43	18.18	18.42	19.18	20.51
	4H	13.96	14.67	14.96	15.68	17.01	17.86	18.57	18.87	19.58	20.92
	6H	14.08	14.73	15.09	15.74	17.09	18.14	18.79	19.15	19.80	21.15
	8H	14.08	14.70	15.10	15.73	17.07	18.21	18.83	19.23	19.86	21.20
	12H	14.05	14.64	15.07	15.66	17.03	18.24	18.83	19.27	19.85	21.22
4H	2H	14.32	15.03	15.33	16.03	17.37	16.50	17.21	17.51	18.22	19.55
	3H	15.34	15.93	16.36	16.97	18.32	17.99	18.59	19.01	19.62	20.97
	4H	15.62	16.16	16.64	17.18	18.56	18.51	19.06	19.54	20.08	21.46
	6H	15.74	16.21	16.78	17.26	18.63	18.87	19.34	19.91	20.39	21.76
	8H	15.75	16.18	16.78	17.22	18.61	18.97	19.41	20.01	20.45	21.83
	12H	15.71	16.11	16.77	17.16	18.55	19.02	19.42	20.08	20.47	21.86
8H	4H	16.06	16.50	17.10	17.54	18.93	18.64	19.07	19.68	20.12	21.50
	6H	16.32	16.68	17.39	17.77	19.15	19.07	19.42	20.13	20.51	21.89
	8H	16.37	16.68	17.44	17.75	19.15	19.21	19.53	20.28	20.60	22.00
	12H	16.35	16.63	17.42	17.69	19.13	19.30	19.58	20.38	20.65	22.09
12H	4H	16.07	16.46	17.12	17.52	18.91	18.60	18.99	19.66	20.05	21.44
	6H	16.38	16.70	17.45	17.77	19.17	19.06	19.38	20.13	20.45	21.85
	8H	16.45	16.73	17.52	17.79	19.23	19.22	19.50	20.29	20.56	22.00