

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: P936010

Luminaire Tested: SQ4-FA-150U-100D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936010
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

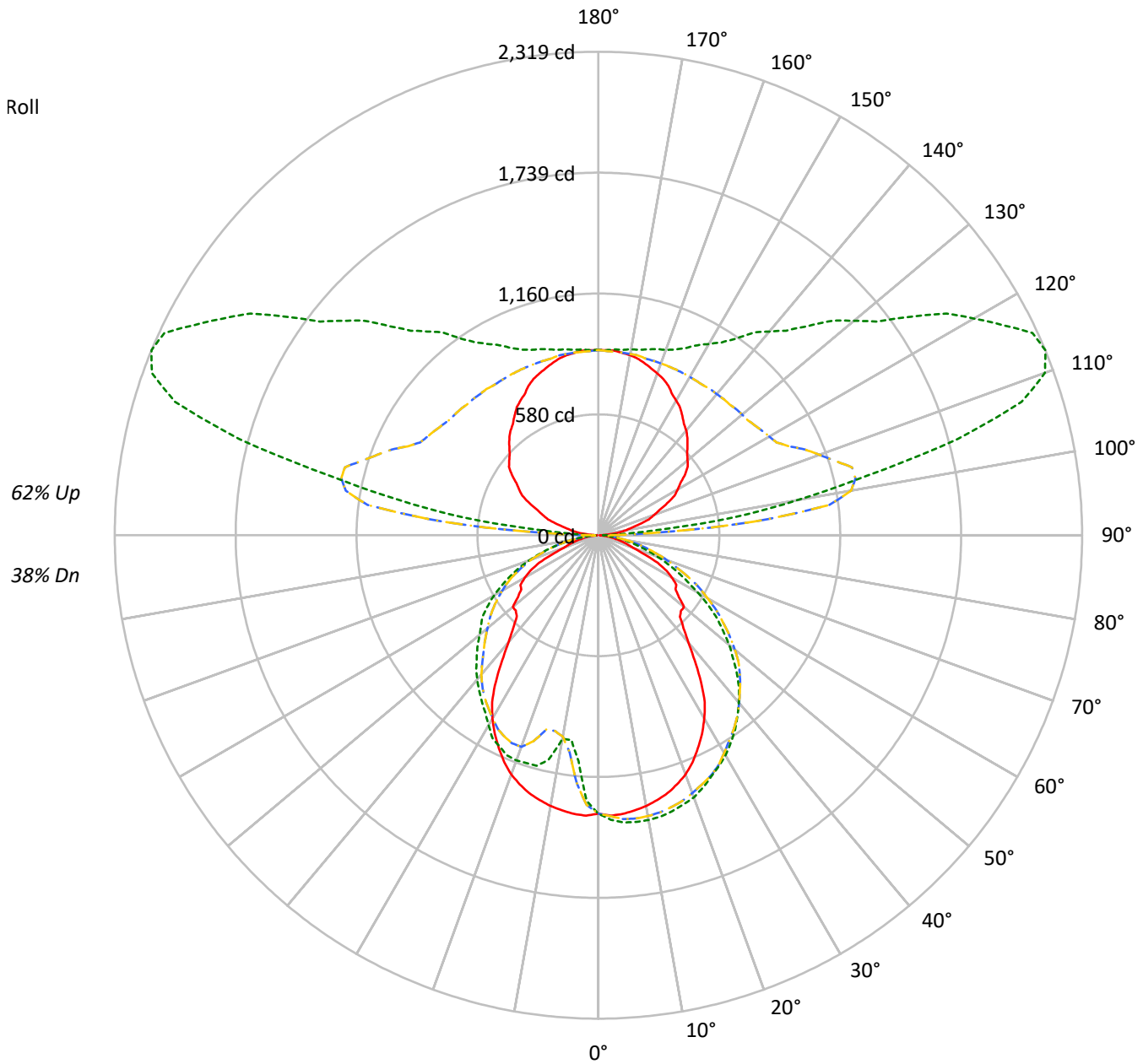
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9224.5 lumens
Efficiency: N/A
Efficacy: 127.4 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				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°	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	1.3
10°-20°	342.2	3.7
20°-30°	528.9	5.7
30°-40°	631.4	6.8
40°-50°	635.2	6.9
50°-60°	552.7	6.0
60°-70°	391.8	4.2
70°-80°	207.3	2.2
80°-90°	55.0	0.6
90°-100°	433.1	4.7
100°-110°	1138.6	12.3
110°-120°	1180.6	12.8
120°-130°	947.0	10.3
130°-140°	743.0	8.1
140°-150°	570.3	6.2
150°-160°	410.7	4.5
160°-170°	251.3	2.7
170°-180°	84.9	0.9
0°-30°	991.6	10.8
0°-40°	1623.1	17.6
0°-60°	2810.9	30.5
0°-90°	3465.1	37.6
90°-120°	2752.2	29.8
90°-150°	5012.5	54.3
90°-180°	5759.0	62.4
0°-180°	9224.5	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°	6	23	6	23	6	6
95°	57	262	57	262	57	64
105°	205	1783	205	1783	205	217
115°	364	2296	364	2296	364	360
125°	507	1828	507	1828	507	450
135°	604	1418	604	1418	604	467
145°	701	1151	701	1151	701	439
155°	792	991	792	991	792	364
165°	854	923	854	923	854	241
175°	888	894	888	894	888	84
180°	888	888	888	888	888	



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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°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2	22.7	22.7
92.5°	23.8	64.3	105.0	115.1	161.8	224.0	255.2	223.6	160.6	113.3	108.8
95°	57.3	131.4	205.6	224.2	398.1	630.0	746.0	665.7	505.1	384.6	370.9
97.5°	98.9	164.4	229.9	246.3	536.2	922.9	1116.2	1065.5	963.9	887.8	861.8
100°	131.2	190.5	249.9	264.7	586.5	1015.6	1230.1	1233.8	1241.3	1246.8	1215.8
102.5°	158.6	214.0	269.4	283.3	609.6	1044.7	1262.3	1326.9	1456.3	1553.3	1526.8
105°	205.2	252.1	298.9	310.7	626.7	1048.0	1258.7	1403.6	1693.6	1911.0	1896.8
107.5°	252.9	296.6	340.3	351.2	629.9	1001.4	1187.2	1389.4	1793.7	2097.1	2100.5
110°	285.0	324.5	364.0	373.9	625.1	960.0	1127.5	1353.6	1805.7	2144.8	2159.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.6	354.3	392.0	401.3	625.3	924.0	1073.3	1304.7	1767.4	2114.4	2137.1
115°	364.3	399.0	433.7	442.4	631.1	882.6	1008.3	1231.1	1676.9	2011.2	2042.9
117.5°	411.5	443.0	474.6	482.4	642.8	856.7	963.6	1164.7	1567.0	1868.7	1903.8
120°	438.8	468.5	498.2	505.6	652.3	847.9	945.7	1129.4	1497.0	1772.7	1806.7
122.5°	465.7	495.6	525.6	533.1	666.0	843.4	932.0	1097.5	1428.5	1676.7	1710.3
125°	506.9	534.1	561.5	568.2	684.5	839.6	917.1	1057.6	1338.8	1549.7	1580.7
127.5°	540.2	567.8	595.3	602.2	702.9	837.4	904.6	1025.3	1266.7	1447.8	1473.9
130°	558.1	587.7	617.4	624.8	716.5	838.7	899.8	1007.2	1222.2	1383.3	1407.4
132.5°	576.6	606.3	635.9	643.4	727.4	839.6	895.6	991.8	1184.2	1328.5	1350.1
135°	604.0	631.1	658.0	664.8	739.4	838.7	888.4	969.0	1130.1	1250.9	1269.6
137.5°	632.0	658.8	685.5	692.2	757.2	844.0	887.3	955.3	1091.6	1193.8	1209.0
140°	655.3	680.0	704.7	710.8	768.2	844.8	883.1	941.9	1059.5	1147.8	1162.0
142.5°	673.2	696.0	718.7	724.5	777.3	847.8	883.1	934.8	1038.1	1115.7	1127.9
145°	700.7	720.5	740.3	745.3	789.3	847.9	877.1	919.4	1003.9	1067.3	1076.6
147.5°	728.0	747.4	766.7	771.6	806.8	853.7	877.1	910.4	976.8	1026.7	1034.4
150°	746.0	763.5	780.9	785.3	815.9	856.7	877.1	905.2	961.4	1003.5	1009.7
152.5°	764.4	777.7	790.9	794.2	821.9	858.7	877.1	901.1	949.1	985.1	989.7
155°	791.9	801.7	811.5	813.9	835.0	863.1	877.1	896.2	934.4	963.0	966.1
157.5°	812.1	821.7	831.1	833.5	848.1	867.5	877.1	891.9	921.6	943.9	946.1
160°	825.8	833.2	840.7	842.5	854.1	869.5	877.1	889.8	915.3	934.3	935.5
162.5°	839.6	845.1	850.6	852.1	860.4	871.6	877.1	887.8	909.3	925.4	926.6
165°	854.5	859.4	864.5	865.8	869.6	874.6	877.1	884.8	900.2	911.6	912.9
167.5°	868.1	870.5	872.9	873.5	876.7	881.0	883.1	888.1	898.2	905.7	906.3
170°	877.1	879.5	881.9	882.5	882.7	883.0	883.1	888.1	898.2	905.7	905.7
172.5°	881.9	882.4	883.0	883.1	883.1	883.1	883.1	887.1	895.0	900.9	900.5
175°	888.4	888.4	888.4	888.4	886.6	884.2	883.1	885.5	890.6	894.4	894.4
177.5°	888.4	888.4	888.4	888.4	887.1	885.3	884.3	886.3	890.2	893.2	892.6
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



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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°	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0	26.3	16.7
92.5°	90.7	72.8	90.7	108.8	113.3	160.6	223.6	255.2	224.0	161.8	115.1
95°	316.3	261.8	316.3	370.9	384.6	505.1	665.7	746.0	630.0	398.1	224.2
97.5°	758.0	654.1	758.0	861.8	887.8	963.9	1065.5	1116.2	922.9	536.2	246.3
100°	1092.1	968.3	1092.1	1215.8	1246.8	1241.3	1233.8	1230.1	1015.6	586.5	264.7
102.5°	1420.8	1314.8	1420.8	1526.8	1553.3	1456.3	1326.9	1262.3	1044.7	609.6	283.3
105°	1839.8	1782.8	1839.8	1896.8	1911.0	1693.6	1403.6	1258.7	1048.0	626.7	310.7
107.5°	2114.3	2128.1	2114.3	2100.5	2097.1	1793.7	1389.4	1187.2	1001.4	629.9	351.2
110°	2219.0	2278.3	2219.0	2159.6	2144.8	1805.7	1353.6	1127.5	960.0	625.1	373.9



TEST NUMBER: P936010

CATALOG NUMBER: SQ4-FA-150U-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°	2228.3	2319.4	2228.3	2137.1	2114.4	1767.4	1304.7	1073.3	924.0	625.3	401.3
115°	2169.3	2295.6	2169.3	2042.9	2011.2	1676.9	1231.1	1008.3	882.6	631.1	442.4
117.5°	2043.9	2184.1	2043.9	1903.8	1868.7	1567.0	1164.7	963.6	856.7	642.8	482.4
120°	1943.0	2079.2	1943.0	1806.7	1772.7	1497.0	1129.4	945.7	847.9	652.3	505.6
122.5°	1844.7	1979.0	1844.7	1710.3	1676.7	1428.5	1097.5	932.0	843.4	666.0	533.1
125°	1704.4	1828.2	1704.4	1580.7	1549.7	1338.8	1057.6	917.1	839.6	684.5	568.2
127.5°	1578.3	1682.7	1578.3	1473.9	1447.8	1266.7	1025.3	904.6	837.4	702.9	602.2
130°	1503.9	1600.3	1503.9	1407.4	1383.3	1222.2	1007.2	899.8	838.7	716.5	624.8
132.5°	1436.4	1522.8	1436.4	1350.1	1328.5	1184.2	991.8	895.6	839.6	727.4	643.4
135°	1344.0	1418.5	1344.0	1269.6	1250.9	1130.1	969.0	888.4	838.7	739.4	664.8
137.5°	1270.0	1330.8	1270.0	1209.0	1193.8	1091.6	955.3	887.3	844.0	757.2	692.2
140°	1219.0	1276.0	1219.0	1162.0	1147.8	1059.5	941.9	883.1	844.8	768.2	710.8
142.5°	1176.9	1225.9	1176.9	1127.9	1115.7	1038.1	934.8	883.1	847.8	777.3	724.5
145°	1113.7	1150.8	1113.7	1076.6	1067.3	1003.9	919.4	877.1	847.9	789.3	745.3
147.5°	1065.2	1096.0	1065.2	1034.4	1026.7	976.8	910.4	877.1	853.7	806.8	771.6
150°	1034.7	1059.5	1034.7	1009.7	1003.5	961.4	905.2	877.1	856.7	815.9	785.3
152.5°	1008.6	1027.3	1008.6	989.7	985.1	949.1	901.1	877.1	858.7	821.9	794.2
155°	978.6	991.0	978.6	966.1	963.0	934.4	896.2	877.1	863.1	835.0	813.9
157.5°	954.8	963.6	954.8	946.1	943.9	921.6	891.9	877.1	867.5	848.1	833.5
160°	940.6	945.7	940.6	935.5	934.3	915.3	889.8	877.1	869.5	854.1	842.5
162.5°	931.3	936.1	931.3	926.6	925.4	909.3	887.8	877.1	871.6	860.4	852.1
165°	918.0	923.0	918.0	912.9	911.6	900.2	884.8	877.1	874.6	869.6	865.8
167.5°	908.4	910.5	908.4	906.3	905.7	898.2	888.1	883.1	881.0	876.7	873.5
170°	905.7	905.7	905.7	905.7	905.7	898.2	888.1	883.1	883.0	882.7	882.5
172.5°	898.6	896.8	898.6	900.5	900.9	895.0	887.1	883.1	883.1	883.1	883.1
175°	894.4	894.4	894.4	894.4	894.4	890.6	885.5	883.1	884.2	886.6	888.4
177.5°	890.5	888.4	890.5	892.6	893.2	890.2	886.3	884.3	885.3	887.1	888.4
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



TEST NUMBER: P936010

CATALOG NUMBER: SQ4-FA-150U-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°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2
92.5°	105.0	64.3	23.8	64.3	105.0	115.1	161.8	224.0	255.2	223.6	160.6
95°	205.6	131.4	57.3	131.4	205.6	224.2	398.1	630.0	746.0	665.7	505.1
97.5°	229.9	164.4	98.9	164.4	229.9	246.3	536.2	922.9	1116.2	1065.5	963.9
100°	249.9	190.5	131.2	190.5	249.9	264.7	586.5	1015.6	1230.1	1233.8	1241.3
102.5°	269.4	214.0	158.6	214.0	269.4	283.3	609.6	1044.7	1262.3	1326.9	1456.3
105°	298.9	252.1	205.2	252.1	298.9	310.7	626.7	1048.0	1258.7	1403.6	1693.6
107.5°	340.3	296.6	252.9	296.6	340.3	351.2	629.9	1001.4	1187.2	1389.4	1793.7
110°	364.0	324.5	285.0	324.5	364.0	373.9	625.1	960.0	1127.5	1353.6	1805.7



TEST NUMBER: P936010

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.0	354.3	316.6	354.3	392.0	401.3	625.3	924.0	1073.3	1304.7	1767.4
115°	433.7	399.0	364.3	399.0	433.7	442.4	631.1	882.6	1008.3	1231.1	1676.9
117.5°	474.6	443.0	411.5	443.0	474.6	482.4	642.8	856.7	963.6	1164.7	1567.0
120°	498.2	468.5	438.8	468.5	498.2	505.6	652.3	847.9	945.7	1129.4	1497.0
122.5°	525.6	495.6	465.7	495.6	525.6	533.1	666.0	843.4	932.0	1097.5	1428.5
125°	561.5	534.1	506.9	534.1	561.5	568.2	684.5	839.6	917.1	1057.6	1338.8
127.5°	595.3	567.8	540.2	567.8	595.3	602.2	702.9	837.4	904.6	1025.3	1266.7
130°	617.4	587.7	558.1	587.7	617.4	624.8	716.5	838.7	899.8	1007.2	1222.2
132.5°	635.9	606.3	576.6	606.3	635.9	643.4	727.4	839.6	895.6	991.8	1184.2
135°	658.0	631.1	604.0	631.1	658.0	664.8	739.4	838.7	888.4	969.0	1130.1
137.5°	685.5	658.8	632.0	658.8	685.5	692.2	757.2	844.0	887.3	955.3	1091.6
140°	704.7	680.0	655.3	680.0	704.7	710.8	768.2	844.8	883.1	941.9	1059.5
142.5°	718.7	696.0	673.2	696.0	718.7	724.5	777.3	847.8	883.1	934.8	1038.1
145°	740.3	720.5	700.7	720.5	740.3	745.3	789.3	847.9	877.1	919.4	1003.9
147.5°	766.7	747.4	728.0	747.4	766.7	771.6	806.8	853.7	877.1	910.4	976.8
150°	780.9	763.5	746.0	763.5	780.9	785.3	815.9	856.7	877.1	905.2	961.4
152.5°	790.9	777.7	764.4	777.7	790.9	794.2	821.9	858.7	877.1	901.1	949.1
155°	811.5	801.7	791.9	801.7	811.5	813.9	835.0	863.1	877.1	896.2	934.4
157.5°	831.1	821.7	812.1	821.7	831.1	833.5	848.1	867.5	877.1	891.9	921.6
160°	840.7	833.2	825.8	833.2	840.7	842.5	854.1	869.5	877.1	889.8	915.3
162.5°	850.6	845.1	839.6	845.1	850.6	852.1	860.4	871.6	877.1	887.8	909.3
165°	864.5	859.4	854.5	859.4	864.5	865.8	869.6	874.6	877.1	884.8	900.2
167.5°	872.9	870.5	868.1	870.5	872.9	873.5	876.7	881.0	883.1	888.1	898.2
170°	881.9	879.5	877.1	879.5	881.9	882.5	882.7	883.0	883.1	888.1	898.2
172.5°	883.0	882.4	881.9	882.4	883.0	883.1	883.1	883.1	883.1	887.1	895.0
175°	888.4	888.4	888.4	888.4	888.4	888.4	886.6	884.2	883.1	885.5	890.6
177.5°	888.4	888.4	888.4	888.4	888.4	888.4	887.1	885.3	884.3	886.3	890.2
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



TEST NUMBER: P936010

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-4

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°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0
92.5°	113.3	108.8	90.7	72.8	90.7	108.8	113.3	160.6	223.6	255.2	224.0
95°	384.6	370.9	316.3	261.8	316.3	370.9	384.6	505.1	665.7	746.0	630.0
97.5°	887.8	861.8	758.0	654.1	758.0	861.8	887.8	963.9	1065.5	1116.2	922.9
100°	1246.8	1215.8	1092.1	968.3	1092.1	1215.8	1246.8	1241.3	1233.8	1230.1	1015.6
102.5°	1553.3	1526.8	1420.8	1314.8	1420.8	1526.8	1553.3	1456.3	1326.9	1262.3	1044.7
105°	1911.0	1896.8	1839.8	1782.8	1839.8	1896.8	1911.0	1693.6	1403.6	1258.7	1048.0
107.5°	2097.1	2100.5	2114.3	2128.1	2114.3	2100.5	2097.1	1793.7	1389.4	1187.2	1001.4
110°	2144.8	2159.6	2219.0	2278.3	2219.0	2159.6	2144.8	1805.7	1353.6	1127.5	960.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2114.4	2137.1	2228.3	2319.4	2228.3	2137.1	2114.4	1767.4	1304.7	1073.3	924.0
115°	2011.2	2042.9	2169.3	2295.6	2169.3	2042.9	2011.2	1676.9	1231.1	1008.3	882.6
117.5°	1868.7	1903.8	2043.9	2184.1	2043.9	1903.8	1868.7	1567.0	1164.7	963.6	856.7
120°	1772.7	1806.7	1943.0	2079.2	1943.0	1806.7	1772.7	1497.0	1129.4	945.7	847.9
122.5°	1676.7	1710.3	1844.7	1979.0	1844.7	1710.3	1676.7	1428.5	1097.5	932.0	843.4
125°	1549.7	1580.7	1704.4	1828.2	1704.4	1580.7	1549.7	1338.8	1057.6	917.1	839.6
127.5°	1447.8	1473.9	1578.3	1682.7	1578.3	1473.9	1447.8	1266.7	1025.3	904.6	837.4
130°	1383.3	1407.4	1503.9	1600.3	1503.9	1407.4	1383.3	1222.2	1007.2	899.8	838.7
132.5°	1328.5	1350.1	1436.4	1522.8	1436.4	1350.1	1328.5	1184.2	991.8	895.6	839.6
135°	1250.9	1269.6	1344.0	1418.5	1344.0	1269.6	1250.9	1130.1	969.0	888.4	838.7
137.5°	1193.8	1209.0	1270.0	1330.8	1270.0	1209.0	1193.8	1091.6	955.3	887.3	844.0
140°	1147.8	1162.0	1219.0	1276.0	1219.0	1162.0	1147.8	1059.5	941.9	883.1	844.8
142.5°	1115.7	1127.9	1176.9	1225.9	1176.9	1127.9	1115.7	1038.1	934.8	883.1	847.8
145°	1067.3	1076.6	1113.7	1150.8	1113.7	1076.6	1067.3	1003.9	919.4	877.1	847.9
147.5°	1026.7	1034.4	1065.2	1096.0	1065.2	1034.4	1026.7	976.8	910.4	877.1	853.7
150°	1003.5	1009.7	1034.7	1059.5	1034.7	1009.7	1003.5	961.4	905.2	877.1	856.7
152.5°	985.1	989.7	1008.6	1027.3	1008.6	989.7	985.1	949.1	901.1	877.1	858.7
155°	963.0	966.1	978.6	991.0	978.6	966.1	963.0	934.4	896.2	877.1	863.1
157.5°	943.9	946.1	954.8	963.6	954.8	946.1	943.9	921.6	891.9	877.1	867.5
160°	934.3	935.5	940.6	945.7	940.6	935.5	934.3	915.3	889.8	877.1	869.5
162.5°	925.4	926.6	931.3	936.1	931.3	926.6	925.4	909.3	887.8	877.1	871.6
165°	911.6	912.9	918.0	923.0	918.0	912.9	911.6	900.2	884.8	877.1	874.6
167.5°	905.7	906.3	908.4	910.5	908.4	906.3	905.7	898.2	888.1	883.1	881.0
170°	905.7	905.7	905.7	905.7	905.7	905.7	905.7	898.2	888.1	883.1	883.0
172.5°	900.9	900.5	898.6	896.8	898.6	900.5	900.9	895.0	887.1	883.1	883.1
175°	894.4	894.4	894.4	894.4	894.4	894.4	894.4	890.6	885.5	883.1	884.2
177.5°	893.2	892.6	890.5	888.4	890.5	892.6	893.2	890.2	886.3	884.3	885.3
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



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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°	26.3	16.7	15.5	10.7	5.9
92.5°	161.8	115.1	105.0	64.3	23.8
95°	398.1	224.2	205.6	131.4	57.3
97.5°	536.2	246.3	229.9	164.4	98.9
100°	586.5	264.7	249.9	190.5	131.2
102.5°	609.6	283.3	269.4	214.0	158.6
105°	626.7	310.7	298.9	252.1	205.2
107.5°	629.9	351.2	340.3	296.6	252.9
110°	625.1	373.9	364.0	324.5	285.0



TEST NUMBER: P936010

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	625.3	401.3	392.0	354.3	316.6
115°	631.1	442.4	433.7	399.0	364.3
117.5°	642.8	482.4	474.6	443.0	411.5
120°	652.3	505.6	498.2	468.5	438.8
122.5°	666.0	533.1	525.6	495.6	465.7
125°	684.5	568.2	561.5	534.1	506.9
127.5°	702.9	602.2	595.3	567.8	540.2
130°	716.5	624.8	617.4	587.7	558.1
132.5°	727.4	643.4	635.9	606.3	576.6
135°	739.4	664.8	658.0	631.1	604.0
137.5°	757.2	692.2	685.5	658.8	632.0
140°	768.2	710.8	704.7	680.0	655.3
142.5°	777.3	724.5	718.7	696.0	673.2
145°	789.3	745.3	740.3	720.5	700.7
147.5°	806.8	771.6	766.7	747.4	728.0
150°	815.9	785.3	780.9	763.5	746.0
152.5°	821.9	794.2	790.9	777.7	764.4
155°	835.0	813.9	811.5	801.7	791.9
157.5°	848.1	833.5	831.1	821.7	812.1
160°	854.1	842.5	840.7	833.2	825.8
162.5°	860.4	852.1	850.6	845.1	839.6
165°	869.6	865.8	864.5	859.4	854.5
167.5°	876.7	873.5	872.9	870.5	868.1
170°	882.7	882.5	881.9	879.5	877.1
172.5°	883.1	883.1	883.0	882.4	881.9
175°	886.6	888.4	888.4	888.4	888.4
177.5°	887.1	888.4	888.4	888.4	888.4
180°	888.4	888.4	888.4	888.4	888.4



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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	12.27	13.03	13.32	14.09	15.52	15.06	15.82	16.12	16.88	18.32
	3H	12.74	13.42	13.80	14.48	15.94	16.39	17.07	17.46	18.14	19.60
	4H	12.92	13.57	14.00	14.64	16.10	16.82	17.47	17.90	18.54	20.00
	6H	13.04	13.63	14.12	14.70	16.18	17.10	17.69	18.18	18.76	20.24
	8H	13.03	13.60	14.13	14.69	16.16	17.16	17.73	18.25	18.82	20.29
	12H	13.00	13.54	14.10	14.62	16.12	17.19	17.73	18.29	18.81	20.31
4H	2H	13.28	13.92	14.36	14.99	16.46	15.46	16.11	16.55	17.18	18.64
	3H	14.29	14.83	15.39	15.93	17.41	16.95	17.49	18.04	18.58	20.06
	4H	14.57	15.06	15.66	16.15	17.65	17.46	17.96	18.56	19.05	20.54
	6H	14.69	15.11	15.79	16.22	17.71	17.82	18.24	18.92	19.35	20.84
	8H	14.69	15.08	15.80	16.19	17.70	17.92	18.31	19.02	19.41	20.92
	12H	14.65	15.01	15.77	16.13	17.64	17.96	18.32	19.08	19.44	20.95
8H	4H	15.01	15.40	16.11	16.51	18.01	17.58	17.98	18.69	19.08	20.59
	6H	15.26	15.59	16.39	16.74	18.24	18.01	18.33	19.13	19.48	20.98
	8H	15.31	15.59	16.44	16.72	18.24	18.15	18.44	19.29	19.56	21.09
	12H	15.29	15.54	16.42	16.66	18.22	18.24	18.49	19.38	19.61	21.17
12H	4H	15.01	15.36	16.13	16.48	17.99	17.54	17.90	18.66	19.02	20.53
	6H	15.32	15.61	16.46	16.74	18.26	18.00	18.29	19.14	19.41	20.94
	8H	15.38	15.64	16.52	16.76	18.32	18.15	18.40	19.29	19.53	21.09