

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: P936018

Luminaire Tested: SQ4-FA-150U-100D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936018
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

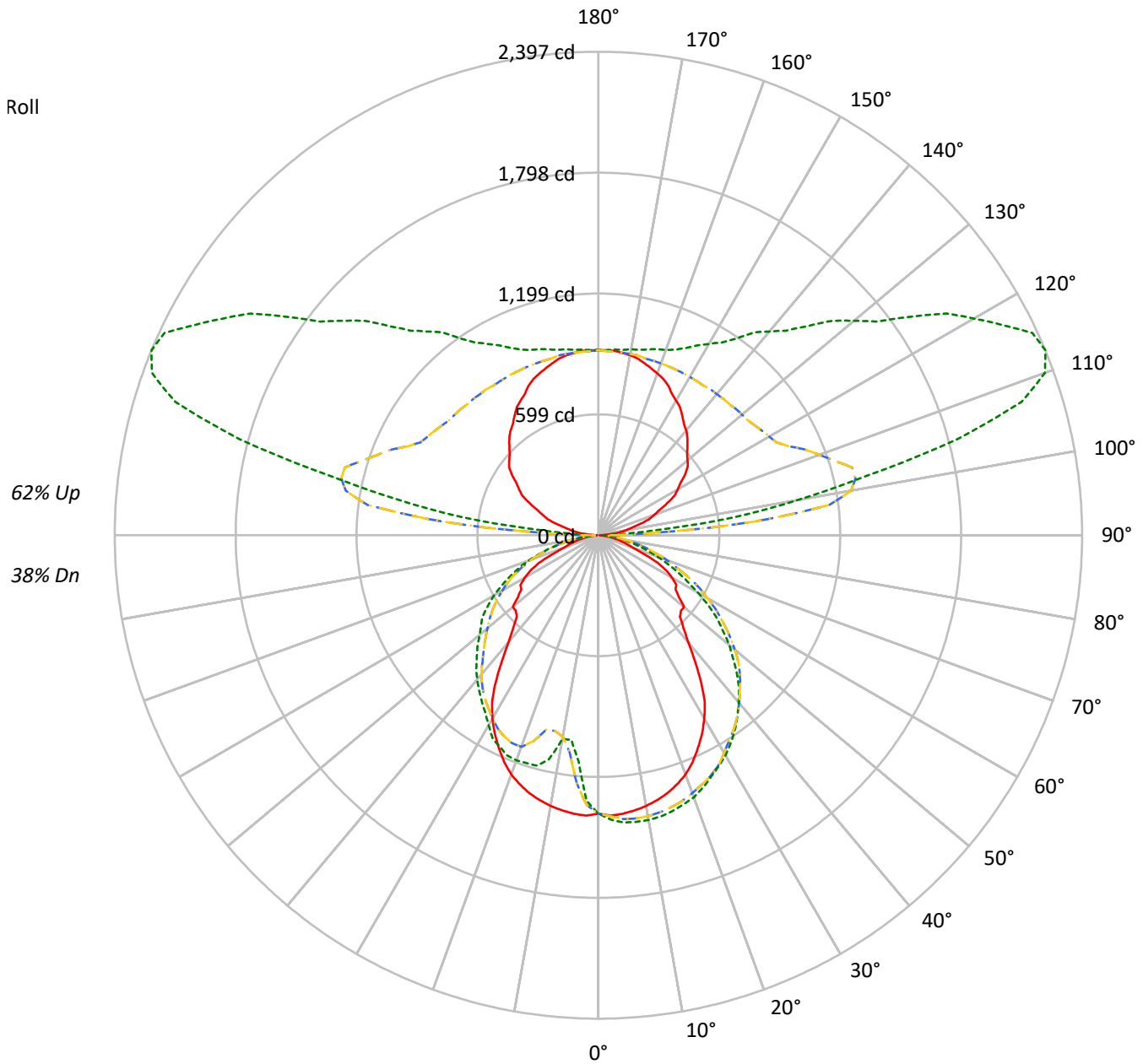
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9533.2 lumens
Efficiency: N/A
Efficacy: 131.7 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°	12803	12803	12803	12803
5°	12886	12924	12886	10162
10°	12784	12731	12784	9103
15°	12631	12455	12631	10400
20°	12353	12129	12353	10422
25°	11797	11652	11797	10201
30°	11086	11256	11086	9717
35°	9867	10756	9867	9184
40°	8209	10167	8209	8780
45°	7321	9477	7321	8318
50°	7759	8655	7759	7854
55°	7279	7769	7279	7585
60°	7476	6597	7476	6946
65°	6748	5454	6748	6097
70°	4641	4347	4641	5110
75°	4024	3212	4024	3847
80°	3178	2124	3178	2312
85°	1722	1125	1722	957

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.3
10°-20°	353.6	3.7
20°-30°	546.7	5.7
30°-40°	652.6	6.8
40°-50°	656.4	6.9
50°-60°	571.1	6.0
60°-70°	405.0	4.2
70°-80°	214.2	2.2
80°-90°	56.9	0.6
90°-100°	447.6	4.7
100°-110°	1176.7	12.3
110°-120°	1220.1	12.8
120°-130°	978.7	10.3
130°-140°	767.9	8.1
140°-150°	589.4	6.2
150°-160°	424.5	4.5
160°-170°	259.7	2.7
170°-180°	87.7	0.9
0°-30°	1024.8	10.8
0°-40°	1677.4	17.6
0°-60°	2905.0	30.5
0°-90°	3581.0	37.6
90°-120°	2844.3	29.8
90°-150°	5180.3	54.3
90°-180°	5952.0	62.4
0°-180°	9533.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1380	1380	1380	1380	1380	
5°	1386	1429	1386	1124	1386	132
15°	1324	1416	1324	1183	1324	372
25°	1166	1321	1166	1157	1166	535
35°	886	1179	886	1006	886	548
45°	572	971	572	852	572	458
55°	466	717	466	700	466	428
65°	324	432	324	483	324	309
75°	123	205	123	245	123	129
85°	21	52	21	44	21	28
90°	6	23	6	23	6	6
95°	59	270	59	270	59	66
105°	212	1842	212	1842	212	225
115°	376	2372	376	2372	376	372
125°	524	1889	524	1889	524	465
135°	624	1466	624	1466	624	483
145°	724	1189	724	1189	724	454
155°	818	1024	818	1024	818	376
165°	883	954	883	954	883	249
175°	918	924	918	924	918	87
180°	918	918	918	918	918	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1391.5	1391.5	1399.4	1402.0	1402.0	1398.0	1394.2	1398.0	1409.8	1413.7	1412.4
5°	1386.4	1396.7	1411.2	1413.7	1416.3	1415.0	1412.4	1415.0	1428.1	1430.7	1432.0
7.5°	1375.9	1395.5	1413.7	1417.7	1421.5	1417.7	1416.3	1419.0	1432.0	1434.6	1434.6
10°	1362.8	1390.2	1411.2	1413.7	1417.7	1413.7	1413.7	1419.0	1432.0	1434.6	1436.0
12.5°	1344.6	1382.4	1402.0	1404.6	1409.8	1408.5	1407.2	1412.4	1425.5	1428.1	1428.1
15°	1323.6	1368.1	1386.4	1388.9	1398.0	1395.5	1395.5	1400.7	1415.0	1419.0	1417.7
17.5°	1295.0	1349.8	1370.7	1374.6	1381.1	1379.7	1381.1	1386.4	1399.4	1402.0	1403.3
20°	1262.3	1325.0	1349.8	1353.7	1360.2	1360.2	1360.2	1366.7	1379.7	1385.0	1385.0
22.5°	1217.9	1298.8	1325.0	1327.6	1335.4	1335.4	1338.0	1347.1	1358.9	1360.2	1360.2
25°	1165.7	1270.2	1292.3	1300.2	1308.0	1311.9	1315.8	1321.1	1325.0	1323.6	1325.0
27.5°	1110.9	1233.6	1262.3	1267.5	1278.0	1281.9	1287.1	1288.5	1289.7	1293.6	1291.0
30°	1049.6	1182.6	1225.7	1230.9	1247.9	1250.5	1245.4	1247.9	1254.5	1257.1	1259.7
32.5°	980.3	1107.0	1187.9	1199.6	1215.3	1207.4	1206.2	1210.1	1220.6	1220.6	1223.1
35°	886.3	1048.3	1152.7	1163.1	1174.8	1165.7	1170.9	1172.3	1178.8	1182.6	1181.4
37.5°	783.2	997.3	1116.1	1123.9	1133.0	1121.3	1129.2	1133.0	1138.3	1135.7	1135.7
40°	691.9	917.7	1073.1	1078.2	1086.1	1076.9	1084.7	1087.4	1090.0	1087.4	1086.1
42.5°	624.0	830.2	1027.3	1033.8	1028.6	1035.1	1037.8	1043.0	1039.1	1033.8	1033.8
45°	571.8	806.7	977.7	985.5	977.7	988.2	992.1	992.1	980.3	977.7	976.4
47.5°	554.8	759.8	928.1	928.1	924.2	937.2	943.8	934.6	922.9	919.0	919.0
50°	553.5	707.5	860.3	855.0	873.3	889.0	882.5	873.3	864.2	849.8	849.8
52.5°	502.6	643.6	772.8	792.4	821.1	830.2	819.7	810.7	794.9	788.4	783.2
55°	466.0	577.0	693.2	732.3	762.3	774.1	754.5	745.3	721.8	718.0	715.3
57.5°	458.2	480.4	620.1	669.7	706.2	704.9	693.2	676.2	656.6	652.7	651.4
60°	420.3	347.2	541.7	600.5	638.3	634.4	624.0	608.3	590.0	587.5	584.8
62.5°	381.2	251.9	453.0	519.6	573.0	571.8	562.7	539.2	526.1	519.6	514.4
65°	323.8	211.4	322.4	432.1	509.1	511.7	492.1	475.1	460.8	453.0	451.6
67.5°	246.7	172.3	218.0	360.3	447.8	445.1	420.3	412.5	394.2	390.3	382.5
70°	182.8	114.9	151.5	292.4	387.7	381.2	361.6	352.4	335.5	326.3	321.1
72.5°	151.5	92.7	111.0	227.1	326.3	318.5	301.5	291.1	276.7	268.9	263.7
75°	122.7	97.9	84.9	168.4	265.0	259.7	244.1	233.7	221.9	211.4	212.8
77.5°	90.1	91.4	67.9	124.0	210.1	202.3	193.2	180.1	174.9	164.5	164.5
80°	67.9	71.8	50.9	84.9	151.5	151.5	143.6	134.5	125.3	120.1	120.1
82.5°	45.6	45.6	37.8	53.5	103.1	99.2	94.0	91.4	86.2	83.6	83.6
85°	20.8	26.1	23.5	32.6	56.1	58.8	58.8	56.1	54.8	52.2	53.5
87.5°	6.5	11.8	14.3	18.3	28.8	30.0	31.3	31.3	31.3	32.6	32.6
90°	6.1	11.1	16.0	17.3	27.2	40.3	46.8	41.6	31.2	23.4	23.4
92.5°	24.6	66.5	108.5	119.0	167.2	231.5	263.7	231.1	166.0	117.1	112.4
95°	59.2	135.8	212.5	231.7	411.4	651.1	770.9	687.9	522.0	397.5	383.3
97.5°	102.3	169.9	237.6	254.5	554.2	953.8	1153.6	1101.1	996.2	917.6	890.7
100°	135.6	196.9	258.3	273.6	606.1	1049.6	1271.3	1275.1	1282.8	1288.5	1256.5
102.5°	163.9	221.2	278.4	292.7	630.0	1079.7	1304.6	1371.3	1505.0	1605.3	1577.9
105°	212.0	260.5	308.9	321.1	647.6	1083.0	1300.8	1450.6	1750.2	1975.0	1960.3
107.5°	261.3	306.5	351.7	363.0	651.0	1034.9	1226.9	1435.9	1853.8	2167.3	2170.8
110°	294.5	335.3	376.2	386.4	646.1	992.1	1165.2	1398.9	1866.1	2216.6	2231.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	327.2	366.2	405.1	414.8	646.3	954.9	1109.2	1348.3	1826.5	2185.2	2208.7
115°	376.5	412.4	448.3	457.2	652.2	912.1	1042.0	1272.3	1733.1	2078.6	2111.3
117.5°	425.2	457.8	490.4	498.5	664.3	885.3	995.8	1203.7	1619.4	1931.2	1967.5
120°	453.5	484.2	514.8	522.6	674.1	876.3	977.3	1167.2	1547.1	1832.0	1867.2
122.5°	481.3	512.2	543.2	550.9	688.3	871.6	963.2	1134.2	1476.3	1732.9	1767.5
125°	523.8	552.0	580.3	587.3	707.4	867.7	947.8	1093.0	1383.6	1601.5	1633.6
127.5°	558.3	586.8	615.2	622.3	726.5	865.4	934.8	1059.6	1309.1	1496.2	1523.2
130°	576.8	607.4	638.1	645.8	740.5	866.8	929.9	1041.0	1263.1	1429.6	1454.5
132.5°	595.9	626.6	657.2	664.9	751.8	867.7	925.6	1025.0	1223.8	1372.9	1395.3
135°	624.2	652.2	680.0	687.1	764.1	866.8	918.1	1001.4	1167.9	1292.8	1312.1
137.5°	653.2	680.8	708.5	715.4	782.6	872.2	917.0	987.3	1128.1	1233.7	1249.4
140°	677.3	702.8	728.3	734.6	794.0	873.1	912.6	973.4	1095.0	1186.2	1200.9
142.5°	695.7	719.3	742.8	748.7	803.3	876.2	912.6	966.1	1072.9	1153.0	1165.6
145°	724.1	744.7	765.1	770.2	815.7	876.3	906.5	950.2	1037.5	1103.0	1112.6
147.5°	752.4	772.4	792.4	797.4	833.8	882.3	906.5	940.9	1009.5	1061.1	1069.0
150°	770.9	789.0	807.0	811.5	843.2	885.3	906.5	935.5	993.5	1037.1	1043.5
152.5°	790.0	803.7	817.4	820.8	849.4	887.4	906.5	931.3	980.9	1018.0	1022.9
155°	818.4	828.5	838.6	841.2	862.9	892.0	906.5	926.2	965.7	995.2	998.5
157.5°	839.3	849.2	859.0	861.4	876.5	896.5	906.5	921.8	952.4	975.5	977.7
160°	853.4	861.1	868.8	870.7	882.7	898.6	906.5	919.6	945.9	965.6	966.9
162.5°	867.7	873.4	879.1	880.6	889.2	900.8	906.5	917.6	939.8	956.4	957.6
165°	883.1	888.2	893.4	894.7	898.7	903.9	906.5	914.4	930.3	942.2	943.4
167.5°	897.2	899.7	902.1	902.7	906.0	910.4	912.6	917.9	928.2	936.0	936.6
170°	906.5	909.0	911.4	912.0	912.2	912.5	912.6	917.9	928.2	936.0	936.0
172.5°	911.4	911.9	912.5	912.6	912.6	912.6	912.6	916.8	925.0	931.1	930.6
175°	918.1	918.1	918.1	918.1	916.3	913.8	912.6	915.2	920.4	924.4	924.4
177.5°	918.1	918.1	918.1	918.1	916.8	914.9	913.9	916.0	920.0	923.1	922.5
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1415.0	1411.2	1415.0	1412.4	1413.7	1409.8	1398.0	1394.2	1398.0	1402.0	1402.0
5°	1432.0	1429.4	1432.0	1432.0	1430.7	1428.1	1415.0	1412.4	1415.0	1416.3	1413.7
7.5°	1437.2	1433.3	1437.2	1434.6	1434.6	1432.0	1419.0	1416.3	1417.7	1421.5	1417.7
10°	1437.2	1433.3	1437.2	1436.0	1434.6	1432.0	1419.0	1413.7	1413.7	1417.7	1413.7
12.5°	1430.7	1428.1	1430.7	1428.1	1428.1	1425.5	1412.4	1407.2	1408.5	1409.8	1404.6
15°	1420.2	1416.3	1420.2	1417.7	1419.0	1415.0	1400.7	1395.5	1395.5	1398.0	1388.9
17.5°	1404.6	1399.4	1404.6	1403.3	1402.0	1399.4	1386.4	1381.1	1379.7	1381.1	1374.6
20°	1386.4	1382.4	1386.4	1385.0	1385.0	1379.7	1366.7	1360.2	1360.2	1360.2	1353.7
22.5°	1357.6	1353.7	1357.6	1360.2	1360.2	1358.9	1347.1	1338.0	1335.4	1335.4	1327.6
25°	1325.0	1321.1	1325.0	1325.0	1323.6	1325.0	1321.1	1315.8	1311.9	1308.0	1300.2
27.5°	1293.6	1291.0	1293.6	1291.0	1293.6	1289.7	1288.5	1287.1	1281.9	1278.0	1267.5
30°	1262.3	1259.7	1262.3	1259.7	1257.1	1254.5	1247.9	1245.4	1250.5	1247.9	1230.9
32.5°	1223.1	1220.6	1223.1	1223.1	1220.6	1220.6	1210.1	1206.2	1207.4	1215.3	1199.6
35°	1182.6	1178.8	1182.6	1181.4	1182.6	1178.8	1172.3	1170.9	1165.7	1174.8	1163.1
37.5°	1135.7	1131.8	1135.7	1135.7	1135.7	1138.3	1133.0	1129.2	1121.3	1133.0	1123.9
40°	1087.4	1082.2	1087.4	1086.1	1087.4	1090.0	1087.4	1084.7	1076.9	1086.1	1078.2
42.5°	1032.6	1031.3	1032.6	1033.8	1033.8	1039.1	1043.0	1037.8	1035.1	1028.6	1033.8
45°	973.8	971.2	973.8	976.4	977.7	980.3	992.1	992.1	988.2	977.7	985.5
47.5°	911.1	904.6	911.1	919.0	919.0	922.9	934.6	943.8	937.2	924.2	928.1
50°	844.5	845.9	844.5	849.8	849.8	864.2	873.3	882.5	889.0	873.3	855.0
52.5°	779.3	778.0	779.3	783.2	788.4	794.9	810.7	819.7	830.2	821.1	792.4
55°	714.0	716.7	714.0	715.3	718.0	721.8	745.3	754.5	774.1	762.3	732.3
57.5°	648.8	644.9	648.8	651.4	652.7	656.6	676.2	693.2	704.9	706.2	669.7
60°	573.0	567.8	573.0	584.8	587.5	590.0	608.3	624.0	634.4	638.3	600.5
62.5°	506.4	497.4	506.4	514.4	519.6	526.1	539.2	562.7	571.8	573.0	519.6
65°	436.0	432.1	436.0	451.6	453.0	460.8	475.1	492.1	511.7	509.1	432.1
67.5°	372.1	372.1	372.1	382.5	390.3	394.2	412.5	420.3	445.1	447.8	360.3
70°	313.3	312.0	313.3	321.1	326.3	335.5	352.4	361.6	381.2	387.7	292.4
72.5°	257.2	255.9	257.2	263.7	268.9	276.7	291.1	301.5	318.5	326.3	227.1
75°	207.6	204.9	207.6	212.8	211.4	221.9	233.7	244.1	259.7	265.0	168.4
77.5°	159.3	159.3	159.3	164.5	164.5	174.9	180.1	193.2	202.3	210.1	124.0
80°	118.8	117.5	118.8	120.1	120.1	125.3	134.5	143.6	151.5	151.5	84.9
82.5°	83.6	80.9	83.6	83.6	83.6	86.2	91.4	94.0	99.2	103.1	53.5
85°	52.2	52.2	52.2	53.5	52.2	54.8	56.1	58.8	58.8	56.1	32.6
87.5°	34.0	32.6	34.0	32.6	32.6	31.3	31.3	31.3	30.0	28.8	18.3
90°	23.4	23.4	23.4	23.4	23.4	31.2	41.6	46.8	40.3	27.2	17.3
92.5°	93.8	75.2	93.8	112.4	117.1	166.0	231.1	263.7	231.5	167.2	119.0
95°	326.9	270.5	326.9	383.3	397.5	522.0	687.9	770.9	651.1	411.4	231.7
97.5°	783.4	676.0	783.4	890.7	917.6	996.2	1101.1	1153.6	953.8	554.2	254.5
100°	1128.7	1000.7	1128.7	1256.5	1288.5	1282.8	1275.1	1271.3	1049.6	606.1	273.6
102.5°	1468.4	1358.8	1468.4	1577.9	1605.3	1505.0	1371.3	1304.6	1079.7	630.0	292.7
105°	1901.4	1842.5	1901.4	1960.3	1975.0	1750.2	1450.6	1300.8	1083.0	647.6	321.1
107.5°	2185.1	2199.3	2185.1	2170.8	2167.3	1853.8	1435.9	1226.9	1034.9	651.0	363.0
110°	2293.2	2354.6	2293.2	2231.9	2216.6	1866.1	1398.9	1165.2	992.1	646.1	386.4



TEST NUMBER: P936018

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2302.9	2397.1	2302.9	2208.7	2185.2	1826.5	1348.3	1109.2	954.9	646.3	414.8
115°	2241.9	2372.5	2241.9	2111.3	2078.6	1733.1	1272.3	1042.0	912.1	652.2	457.2
117.5°	2112.3	2257.2	2112.3	1967.5	1931.2	1619.4	1203.7	995.8	885.3	664.3	498.5
120°	2008.0	2148.8	2008.0	1867.2	1832.0	1547.1	1167.2	977.3	876.3	674.1	522.6
122.5°	1906.4	2045.3	1906.4	1767.5	1732.9	1476.3	1134.2	963.2	871.6	688.3	550.9
125°	1761.4	1889.4	1761.4	1633.6	1601.5	1383.6	1093.0	947.8	867.7	707.4	587.3
127.5°	1631.1	1739.0	1631.1	1523.2	1496.2	1309.1	1059.6	934.8	865.4	726.5	622.3
130°	1554.2	1653.9	1554.2	1454.5	1429.6	1263.1	1041.0	929.9	866.8	740.5	645.8
132.5°	1484.5	1573.8	1484.5	1395.3	1372.9	1223.8	1025.0	925.6	867.7	751.8	664.9
135°	1389.0	1466.0	1389.0	1312.1	1292.8	1167.9	1001.4	918.1	866.8	764.1	687.1
137.5°	1312.5	1375.4	1312.5	1249.4	1233.7	1128.1	987.3	917.0	872.2	782.6	715.4
140°	1259.8	1318.7	1259.8	1200.9	1186.2	1095.0	973.4	912.6	873.1	794.0	734.6
142.5°	1216.3	1266.9	1216.3	1165.6	1153.0	1072.9	966.1	912.6	876.2	803.3	748.7
145°	1151.0	1189.4	1151.0	1112.6	1103.0	1037.5	950.2	906.5	876.3	815.7	770.2
147.5°	1100.8	1132.6	1100.8	1069.0	1061.1	1009.5	940.9	906.5	882.3	833.8	797.4
150°	1069.3	1095.0	1069.3	1043.5	1037.1	993.5	935.5	906.5	885.3	843.2	811.5
152.5°	1042.3	1061.7	1042.3	1022.9	1018.0	980.9	931.3	906.5	887.4	849.4	820.8
155°	1011.3	1024.2	1011.3	998.5	995.2	965.7	926.2	906.5	892.0	862.9	841.2
157.5°	986.7	995.8	986.7	977.7	975.5	952.4	921.8	906.5	896.5	876.5	861.4
160°	972.1	977.3	972.1	966.9	965.6	945.9	919.6	906.5	898.6	882.7	870.7
162.5°	962.5	967.4	962.5	957.6	956.4	939.8	917.6	906.5	900.8	889.2	880.6
165°	948.7	953.9	948.7	943.4	942.2	930.3	914.4	906.5	903.9	898.7	894.7
167.5°	938.8	941.0	938.8	936.6	936.0	928.2	917.9	912.6	910.4	906.0	902.7
170°	936.0	936.0	936.0	936.0	936.0	928.2	917.9	912.6	912.5	912.2	912.0
172.5°	928.7	926.8	928.7	930.6	931.1	925.0	916.8	912.6	912.6	912.6	912.6
175°	924.4	924.4	924.4	924.4	924.4	920.4	915.2	912.6	913.8	916.3	918.1
177.5°	920.3	918.1	920.3	922.5	923.1	920.0	916.0	913.9	914.9	916.8	918.1
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



TEST NUMBER: P936018

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1399.4	1391.5	1391.5	1378.5	1373.2	1369.4	1362.8	1343.3	1338.0	1332.8	1340.6
5°	1411.2	1396.7	1386.4	1362.8	1343.3	1335.4	1310.6	1263.7	1232.2	1208.8	1195.8
7.5°	1413.7	1395.5	1375.9	1339.3	1292.3	1271.5	1195.8	1109.6	1086.1	1065.2	1052.1
10°	1411.2	1390.2	1362.8	1308.0	1197.1	1160.5	1084.7	1028.6	1014.3	1010.3	1014.3
12.5°	1402.0	1382.4	1344.6	1253.2	1097.9	1073.1	1028.6	996.0	993.4	1000.0	1035.1
15°	1386.4	1368.1	1323.6	1180.1	1043.0	1024.8	993.4	981.7	996.0	1041.6	1147.5
17.5°	1370.7	1349.8	1295.0	1108.2	1001.2	988.2	966.0	989.5	1070.4	1131.8	1167.0
20°	1349.8	1325.0	1262.3	1056.1	971.2	959.4	949.0	1054.8	1116.1	1138.3	1157.8
22.5°	1325.0	1298.8	1217.9	1019.5	939.9	930.7	937.2	1091.3	1116.1	1131.8	1148.7
25°	1292.3	1270.2	1165.7	990.8	915.1	904.6	929.4	1087.4	1101.7	1105.7	1139.6
27.5°	1262.3	1233.6	1110.9	964.7	885.1	881.1	935.9	1070.4	1080.9	1084.7	1121.3
30°	1225.7	1182.6	1049.6	937.2	853.7	852.4	937.2	1049.6	1046.9	1057.4	1093.9
32.5°	1187.9	1107.0	980.3	903.3	823.7	822.4	928.1	1018.2	1015.6	1030.0	1057.4
35°	1152.7	1048.3	886.3	864.2	785.9	787.1	905.9	981.7	983.0	996.0	1013.0
37.5°	1116.1	997.3	783.2	821.1	749.3	749.3	875.9	947.7	945.1	949.0	972.5
40°	1073.1	917.7	691.9	764.9	715.3	711.5	839.4	911.1	902.0	900.8	933.4
42.5°	1027.3	830.2	624.0	690.5	676.2	671.0	794.9	866.8	849.8	853.7	895.5
45°	977.7	806.7	571.8	583.5	635.7	631.8	746.6	815.9	804.1	814.6	857.7
47.5°	928.1	759.8	554.8	484.3	592.6	591.3	693.2	766.3	759.8	770.1	815.9
50°	860.3	707.5	553.5	415.2	544.4	549.5	629.2	718.0	718.0	727.1	775.4
52.5°	772.8	643.6	502.6	375.9	488.2	503.9	573.0	676.2	678.8	687.9	731.0
55°	693.2	577.0	466.0	345.9	421.7	455.6	518.2	633.1	638.3	647.4	686.7
57.5°	620.1	480.4	458.2	310.7	360.3	392.9	469.9	591.3	594.0	601.8	639.6
60°	541.7	347.2	420.3	272.8	306.8	331.6	425.5	541.7	550.9	556.0	588.7
62.5°	453.0	251.9	381.2	246.7	280.7	285.9	389.0	494.7	506.4	510.4	530.0
65°	322.4	211.4	323.8	224.6	253.2	254.5	349.9	446.5	456.9	463.4	477.8
67.5°	218.0	172.3	246.7	203.6	232.4	233.7	312.0	390.3	404.7	409.9	419.0
70°	151.5	114.9	182.8	181.5	208.9	211.4	271.5	339.4	352.4	356.4	361.6
72.5°	111.0	92.7	151.5	163.2	184.1	186.6	229.7	282.0	295.0	299.0	301.5
75°	84.9	97.9	122.7	142.3	156.6	158.0	188.0	229.7	238.9	241.5	242.8
77.5°	67.9	91.4	90.1	114.9	127.9	125.3	147.5	177.5	185.3	185.3	185.3
80°	50.9	71.8	67.9	82.2	94.0	91.4	105.7	126.7	129.2	131.8	130.5
82.5°	37.8	45.6	45.6	52.2	62.6	60.1	70.4	82.2	82.2	82.2	84.9
85°	23.5	26.1	20.8	27.4	35.3	34.0	39.1	44.4	45.6	45.6	43.1
87.5°	14.3	11.8	6.5	10.5	15.7	15.7	18.3	19.6	18.3	18.3	18.3
90°	16.0	11.1	6.1	11.1	16.0	17.3	27.2	40.3	46.8	41.6	31.2
92.5°	108.5	66.5	24.6	66.5	108.5	119.0	167.2	231.5	263.7	231.1	166.0
95°	212.5	135.8	59.2	135.8	212.5	231.7	411.4	651.1	770.9	687.9	522.0
97.5°	237.6	169.9	102.3	169.9	237.6	254.5	554.2	953.8	1153.6	1101.1	996.2
100°	258.3	196.9	135.6	196.9	258.3	273.6	606.1	1049.6	1271.3	1275.1	1282.8
102.5°	278.4	221.2	163.9	221.2	278.4	292.7	630.0	1079.7	1304.6	1371.3	1505.0
105°	308.9	260.5	212.0	260.5	308.9	321.1	647.6	1083.0	1300.8	1450.6	1750.2
107.5°	351.7	306.5	261.3	306.5	351.7	363.0	651.0	1034.9	1226.9	1435.9	1853.8
110°	376.2	335.3	294.5	335.3	376.2	386.4	646.1	992.1	1165.2	1398.9	1866.1



TEST NUMBER: P936018

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	405.1	366.2	327.2	366.2	405.1	414.8	646.3	954.9	1109.2	1348.3	1826.5
115°	448.3	412.4	376.5	412.4	448.3	457.2	652.2	912.1	1042.0	1272.3	1733.1
117.5°	490.4	457.8	425.2	457.8	490.4	498.5	664.3	885.3	995.8	1203.7	1619.4
120°	514.8	484.2	453.5	484.2	514.8	522.6	674.1	876.3	977.3	1167.2	1547.1
122.5°	543.2	512.2	481.3	512.2	543.2	550.9	688.3	871.6	963.2	1134.2	1476.3
125°	580.3	552.0	523.8	552.0	580.3	587.3	707.4	867.7	947.8	1093.0	1383.6
127.5°	615.2	586.8	558.3	586.8	615.2	622.3	726.5	865.4	934.8	1059.6	1309.1
130°	638.1	607.4	576.8	607.4	638.1	645.8	740.5	866.8	929.9	1041.0	1263.1
132.5°	657.2	626.6	595.9	626.6	657.2	664.9	751.8	867.7	925.6	1025.0	1223.8
135°	680.0	652.2	624.2	652.2	680.0	687.1	764.1	866.8	918.1	1001.4	1167.9
137.5°	708.5	680.8	653.2	680.8	708.5	715.4	782.6	872.2	917.0	987.3	1128.1
140°	728.3	702.8	677.3	702.8	728.3	734.6	794.0	873.1	912.6	973.4	1095.0
142.5°	742.8	719.3	695.7	719.3	742.8	748.7	803.3	876.2	912.6	966.1	1072.9
145°	765.1	744.7	724.1	744.7	765.1	770.2	815.7	876.3	906.5	950.2	1037.5
147.5°	792.4	772.4	752.4	772.4	792.4	797.4	833.8	882.3	906.5	940.9	1009.5
150°	807.0	789.0	770.9	789.0	807.0	811.5	843.2	885.3	906.5	935.5	993.5
152.5°	817.4	803.7	790.0	803.7	817.4	820.8	849.4	887.4	906.5	931.3	980.9
155°	838.6	828.5	818.4	828.5	838.6	841.2	862.9	892.0	906.5	926.2	965.7
157.5°	859.0	849.2	839.3	849.2	859.0	861.4	876.5	896.5	906.5	921.8	952.4
160°	868.8	861.1	853.4	861.1	868.8	870.7	882.7	898.6	906.5	919.6	945.9
162.5°	879.1	873.4	867.7	873.4	879.1	880.6	889.2	900.8	906.5	917.6	939.8
165°	893.4	888.2	883.1	888.2	893.4	894.7	898.7	903.9	906.5	914.4	930.3
167.5°	902.1	899.7	897.2	899.7	902.1	902.7	906.0	910.4	912.6	917.9	928.2
170°	911.4	909.0	906.5	909.0	911.4	912.0	912.2	912.5	912.6	917.9	928.2
172.5°	912.5	911.9	911.4	911.9	912.5	912.6	912.6	912.6	912.6	916.8	925.0
175°	918.1	918.1	918.1	918.1	918.1	918.1	916.3	913.8	912.6	915.2	920.4
177.5°	918.1	918.1	918.1	918.1	918.1	918.1	916.8	914.9	913.9	916.0	920.0
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



TEST NUMBER: P936018
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1331.5	1327.6	1332.8	1318.4	1332.8	1327.6	1331.5	1340.6	1332.8	1338.0	1343.3
5°	1168.3	1161.8	1140.9	1123.9	1140.9	1161.8	1168.3	1195.8	1208.8	1232.2	1263.7
7.5°	1044.3	1039.1	1033.8	1023.4	1033.8	1039.1	1044.3	1052.1	1065.2	1086.1	1109.6
10°	1016.8	1018.2	1026.0	1024.8	1026.0	1018.2	1016.8	1014.3	1010.3	1014.3	1028.6
12.5°	1087.4	1099.2	1142.2	1139.6	1142.2	1099.2	1087.4	1035.1	1000.0	993.4	996.0
15°	1168.3	1172.3	1181.4	1182.6	1181.4	1172.3	1168.3	1147.5	1041.6	996.0	981.7
17.5°	1176.1	1177.5	1184.0	1184.0	1184.0	1177.5	1176.1	1167.0	1131.8	1070.4	989.5
20°	1169.6	1172.3	1185.3	1187.9	1185.3	1172.3	1169.6	1157.8	1138.3	1116.1	1054.8
22.5°	1167.0	1172.3	1182.6	1181.4	1182.6	1172.3	1167.0	1148.7	1131.8	1116.1	1091.3
25°	1154.0	1154.0	1155.3	1156.6	1155.3	1154.0	1154.0	1139.6	1105.7	1101.7	1087.4
27.5°	1126.5	1129.2	1137.0	1135.7	1137.0	1129.2	1126.5	1121.3	1084.7	1080.9	1070.4
30°	1101.7	1099.2	1092.6	1087.4	1092.6	1099.2	1101.7	1093.9	1057.4	1046.9	1049.6
32.5°	1059.9	1053.4	1046.9	1043.0	1046.9	1053.4	1059.9	1057.4	1030.0	1015.6	1018.2
35°	1010.3	1011.7	1010.3	1006.5	1010.3	1011.7	1010.3	1013.0	996.0	983.0	981.7
37.5°	975.2	977.7	976.4	971.2	976.4	977.7	975.2	972.5	949.0	945.1	947.7
40°	938.6	939.9	938.6	934.6	938.6	939.9	938.6	933.4	900.8	902.0	911.1
42.5°	903.3	902.0	898.1	895.5	898.1	902.0	903.3	895.5	853.7	849.8	866.8
45°	862.8	864.2	856.3	852.4	856.3	864.2	862.8	857.7	814.6	804.1	815.9
47.5°	822.4	822.4	815.9	811.9	815.9	822.4	822.4	815.9	770.1	759.8	766.3
50°	779.3	778.0	768.9	767.6	768.9	778.0	779.3	775.4	727.1	718.0	718.0
52.5°	729.7	729.7	731.0	733.6	731.0	729.7	729.7	731.0	687.9	678.8	676.2
55°	686.7	687.9	697.0	699.7	697.0	687.9	686.7	686.7	647.4	638.3	633.1
57.5°	642.2	642.2	648.8	648.8	648.8	642.2	642.2	639.6	601.8	594.0	591.3
60°	591.3	594.0	599.1	597.8	599.1	594.0	591.3	588.7	556.0	550.9	541.7
62.5°	537.8	540.4	541.7	539.2	541.7	540.4	537.8	530.0	510.4	506.4	494.7
65°	481.6	484.3	485.6	483.0	485.6	484.3	481.6	477.8	463.4	456.9	446.5
67.5°	424.2	423.0	421.7	426.8	421.7	423.0	424.2	419.0	409.9	404.7	390.3
70°	365.5	365.5	364.2	366.8	364.2	365.5	365.5	361.6	356.4	352.4	339.4
72.5°	302.8	301.5	306.8	302.8	306.8	301.5	302.8	301.5	299.0	295.0	282.0
75°	241.5	244.1	241.5	245.4	241.5	244.1	241.5	242.8	241.5	238.9	229.7
77.5°	184.1	186.6	184.1	184.1	184.1	186.6	184.1	185.3	185.3	185.3	177.5
80°	130.5	129.2	129.2	127.9	129.2	129.2	130.5	130.5	131.8	129.2	126.7
82.5°	83.6	82.2	82.2	84.9	82.2	82.2	83.6	84.9	82.2	82.2	82.2
85°	45.6	47.0	44.4	44.4	44.4	47.0	45.6	43.1	45.6	45.6	44.4
87.5°	17.0	15.7	15.7	15.7	15.7	15.7	17.0	18.3	18.3	18.3	19.6
90°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	31.2	41.6	46.8	40.3
92.5°	117.1	112.4	93.8	75.2	93.8	112.4	117.1	166.0	231.1	263.7	231.5
95°	397.5	383.3	326.9	270.5	326.9	383.3	397.5	522.0	687.9	770.9	651.1
97.5°	917.6	890.7	783.4	676.0	783.4	890.7	917.6	996.2	1101.1	1153.6	953.8
100°	1288.5	1256.5	1128.7	1000.7	1128.7	1256.5	1288.5	1282.8	1275.1	1271.3	1049.6
102.5°	1605.3	1577.9	1468.4	1358.8	1468.4	1577.9	1605.3	1505.0	1371.3	1304.6	1079.7
105°	1975.0	1960.3	1901.4	1842.5	1901.4	1960.3	1975.0	1750.2	1450.6	1300.8	1083.0
107.5°	2167.3	2170.8	2185.1	2199.3	2185.1	2170.8	2167.3	1853.8	1435.9	1226.9	1034.9
110°	2216.6	2231.9	2293.2	2354.6	2293.2	2231.9	2216.6	1866.1	1398.9	1165.2	992.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2185.2	2208.7	2302.9	2397.1	2302.9	2208.7	2185.2	1826.5	1348.3	1109.2	954.9
115°	2078.6	2111.3	2241.9	2372.5	2241.9	2111.3	2078.6	1733.1	1272.3	1042.0	912.1
117.5°	1931.2	1967.5	2112.3	2257.2	2112.3	1967.5	1931.2	1619.4	1203.7	995.8	885.3
120°	1832.0	1867.2	2008.0	2148.8	2008.0	1867.2	1832.0	1547.1	1167.2	977.3	876.3
122.5°	1732.9	1767.5	1906.4	2045.3	1906.4	1767.5	1732.9	1476.3	1134.2	963.2	871.6
125°	1601.5	1633.6	1761.4	1889.4	1761.4	1633.6	1601.5	1383.6	1093.0	947.8	867.7
127.5°	1496.2	1523.2	1631.1	1739.0	1631.1	1523.2	1496.2	1309.1	1059.6	934.8	865.4
130°	1429.6	1454.5	1554.2	1653.9	1554.2	1454.5	1429.6	1263.1	1041.0	929.9	866.8
132.5°	1372.9	1395.3	1484.5	1573.8	1484.5	1395.3	1372.9	1223.8	1025.0	925.6	867.7
135°	1292.8	1312.1	1389.0	1466.0	1389.0	1312.1	1292.8	1167.9	1001.4	918.1	866.8
137.5°	1233.7	1249.4	1312.5	1375.4	1312.5	1249.4	1233.7	1128.1	987.3	917.0	872.2
140°	1186.2	1200.9	1259.8	1318.7	1259.8	1200.9	1186.2	1095.0	973.4	912.6	873.1
142.5°	1153.0	1165.6	1216.3	1266.9	1216.3	1165.6	1153.0	1072.9	966.1	912.6	876.2
145°	1103.0	1112.6	1151.0	1189.4	1151.0	1112.6	1103.0	1037.5	950.2	906.5	876.3
147.5°	1061.1	1069.0	1100.8	1132.6	1100.8	1069.0	1061.1	1009.5	940.9	906.5	882.3
150°	1037.1	1043.5	1069.3	1095.0	1069.3	1043.5	1037.1	993.5	935.5	906.5	885.3
152.5°	1018.0	1022.9	1042.3	1061.7	1042.3	1022.9	1018.0	980.9	931.3	906.5	887.4
155°	995.2	998.5	1011.3	1024.2	1011.3	998.5	995.2	965.7	926.2	906.5	892.0
157.5°	975.5	977.7	986.7	995.8	986.7	977.7	975.5	952.4	921.8	906.5	896.5
160°	965.6	966.9	972.1	977.3	972.1	966.9	965.6	945.9	919.6	906.5	898.6
162.5°	956.4	957.6	962.5	967.4	962.5	957.6	956.4	939.8	917.6	906.5	900.8
165°	942.2	943.4	948.7	953.9	948.7	943.4	942.2	930.3	914.4	906.5	903.9
167.5°	936.0	936.6	938.8	941.0	938.8	936.6	936.0	928.2	917.9	912.6	910.4
170°	936.0	936.0	936.0	936.0	936.0	936.0	936.0	928.2	917.9	912.6	912.5
172.5°	931.1	930.6	928.7	926.8	928.7	930.6	931.1	925.0	916.8	912.6	912.6
175°	924.4	924.4	924.4	924.4	924.4	924.4	924.4	920.4	915.2	912.6	913.8
177.5°	923.1	922.5	920.3	918.1	920.3	922.5	923.1	920.0	916.0	913.9	914.9
180°	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1	918.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1362.8	1369.4	1373.2	1378.5	1391.5
5°	1310.6	1335.4	1343.3	1362.8	1386.4
7.5°	1195.8	1271.5	1292.3	1339.3	1375.9
10°	1084.7	1160.5	1197.1	1308.0	1362.8
12.5°	1028.6	1073.1	1097.9	1253.2	1344.6
15°	993.4	1024.8	1043.0	1180.1	1323.6
17.5°	966.0	988.2	1001.2	1108.2	1295.0
20°	949.0	959.4	971.2	1056.1	1262.3
22.5°	937.2	930.7	939.9	1019.5	1217.9
25°	929.4	904.6	915.1	990.8	1165.7
27.5°	935.9	881.1	885.1	964.7	1110.9
30°	937.2	852.4	853.7	937.2	1049.6
32.5°	928.1	822.4	823.7	903.3	980.3
35°	905.9	787.1	785.9	864.2	886.3
37.5°	875.9	749.3	749.3	821.1	783.2
40°	839.4	711.5	715.3	764.9	691.9
42.5°	794.9	671.0	676.2	690.5	624.0
45°	746.6	631.8	635.7	583.5	571.8
47.5°	693.2	591.3	592.6	484.3	554.8
50°	629.2	549.5	544.4	415.2	553.5
52.5°	573.0	503.9	488.2	375.9	502.6
55°	518.2	455.6	421.7	345.9	466.0
57.5°	469.9	392.9	360.3	310.7	458.2
60°	425.5	331.6	306.8	272.8	420.3
62.5°	389.0	285.9	280.7	246.7	381.2
65°	349.9	254.5	253.2	224.6	323.8
67.5°	312.0	233.7	232.4	203.6	246.7
70°	271.5	211.4	208.9	181.5	182.8
72.5°	229.7	186.6	184.1	163.2	151.5
75°	188.0	158.0	156.6	142.3	122.7
77.5°	147.5	125.3	127.9	114.9	90.1
80°	105.7	91.4	94.0	82.2	67.9
82.5°	70.4	60.1	62.6	52.2	45.6
85°	39.1	34.0	35.3	27.4	20.8
87.5°	18.3	15.7	15.7	10.5	6.5
90°	27.2	17.3	16.0	11.1	6.1
92.5°	167.2	119.0	108.5	66.5	24.6
95°	411.4	231.7	212.5	135.8	59.2
97.5°	554.2	254.5	237.6	169.9	102.3
100°	606.1	273.6	258.3	196.9	135.6
102.5°	630.0	292.7	278.4	221.2	163.9
105°	647.6	321.1	308.9	260.5	212.0
107.5°	651.0	363.0	351.7	306.5	261.3
110°	646.1	386.4	376.2	335.3	294.5



TEST NUMBER: P936018

CATALOG NUMBER: SQ4-FA-150U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	646.3	414.8	405.1	366.2	327.2
115°	652.2	457.2	448.3	412.4	376.5
117.5°	664.3	498.5	490.4	457.8	425.2
120°	674.1	522.6	514.8	484.2	453.5
122.5°	688.3	550.9	543.2	512.2	481.3
125°	707.4	587.3	580.3	552.0	523.8
127.5°	726.5	622.3	615.2	586.8	558.3
130°	740.5	645.8	638.1	607.4	576.8
132.5°	751.8	664.9	657.2	626.6	595.9
135°	764.1	687.1	680.0	652.2	624.2
137.5°	782.6	715.4	708.5	680.8	653.2
140°	794.0	734.6	728.3	702.8	677.3
142.5°	803.3	748.7	742.8	719.3	695.7
145°	815.7	770.2	765.1	744.7	724.1
147.5°	833.8	797.4	792.4	772.4	752.4
150°	843.2	811.5	807.0	789.0	770.9
152.5°	849.4	820.8	817.4	803.7	790.0
155°	862.9	841.2	838.6	828.5	818.4
157.5°	876.5	861.4	859.0	849.2	839.3
160°	882.7	870.7	868.8	861.1	853.4
162.5°	889.2	880.6	879.1	873.4	867.7
165°	898.7	894.7	893.4	888.2	883.1
167.5°	906.0	902.7	902.1	899.7	897.2
170°	912.2	912.0	911.4	909.0	906.5
172.5°	912.6	912.6	912.5	911.9	911.4
175°	916.3	918.1	918.1	918.1	918.1
177.5°	916.8	918.1	918.1	918.1	918.1
180°	918.1	918.1	918.1	918.1	918.1



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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	12.38	13.14	13.44	14.20	15.64	15.18	15.94	16.23	17.00	18.44
	3H	12.85	13.53	13.92	14.60	16.06	16.51	17.19	17.57	18.25	19.71
	4H	13.04	13.68	14.11	14.75	16.22	16.94	17.58	18.02	18.65	20.12
	6H	13.15	13.74	14.24	14.82	16.29	17.21	17.80	18.30	18.88	20.35
	8H	13.15	13.71	14.24	14.80	16.27	17.28	17.84	18.37	18.93	20.40
	12H	13.12	13.65	14.21	14.74	16.23	17.31	17.84	18.40	18.93	20.42
4H	2H	13.39	14.04	14.48	15.11	16.57	15.58	16.22	16.66	17.29	18.75
	3H	14.41	14.95	15.50	16.04	17.52	17.06	17.60	18.15	18.70	20.17
	4H	14.68	15.17	15.78	16.26	17.76	17.58	18.07	18.68	19.16	20.66
	6H	14.80	15.22	15.91	16.34	17.83	17.93	18.35	19.04	19.47	20.96
	8H	14.80	15.20	15.91	16.30	17.81	18.03	18.43	19.14	19.53	21.04
	12H	14.77	15.12	15.89	16.24	17.75	18.08	18.43	19.20	19.55	21.06
8H	4H	15.12	15.52	16.23	16.62	18.13	17.70	18.09	18.80	19.19	20.70
	6H	15.38	15.70	16.51	16.85	18.35	18.12	18.45	19.25	19.59	21.10
	8H	15.42	15.71	16.55	16.83	18.36	18.27	18.55	19.40	19.68	21.20
	12H	15.40	15.65	16.54	16.77	18.33	18.35	18.61	19.49	19.73	21.29
12H	4H	15.12	15.48	16.24	16.60	18.11	17.66	18.01	18.78	19.13	20.64
	6H	15.44	15.72	16.57	16.85	18.37	18.12	18.40	19.25	19.53	21.05
	8H	15.50	15.75	16.64	16.87	18.43	18.27	18.52	19.41	19.64	21.20