

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: P935961

Luminaire Tested: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935961
REPORT IS A COMBINATION OF REPORTS P933775 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

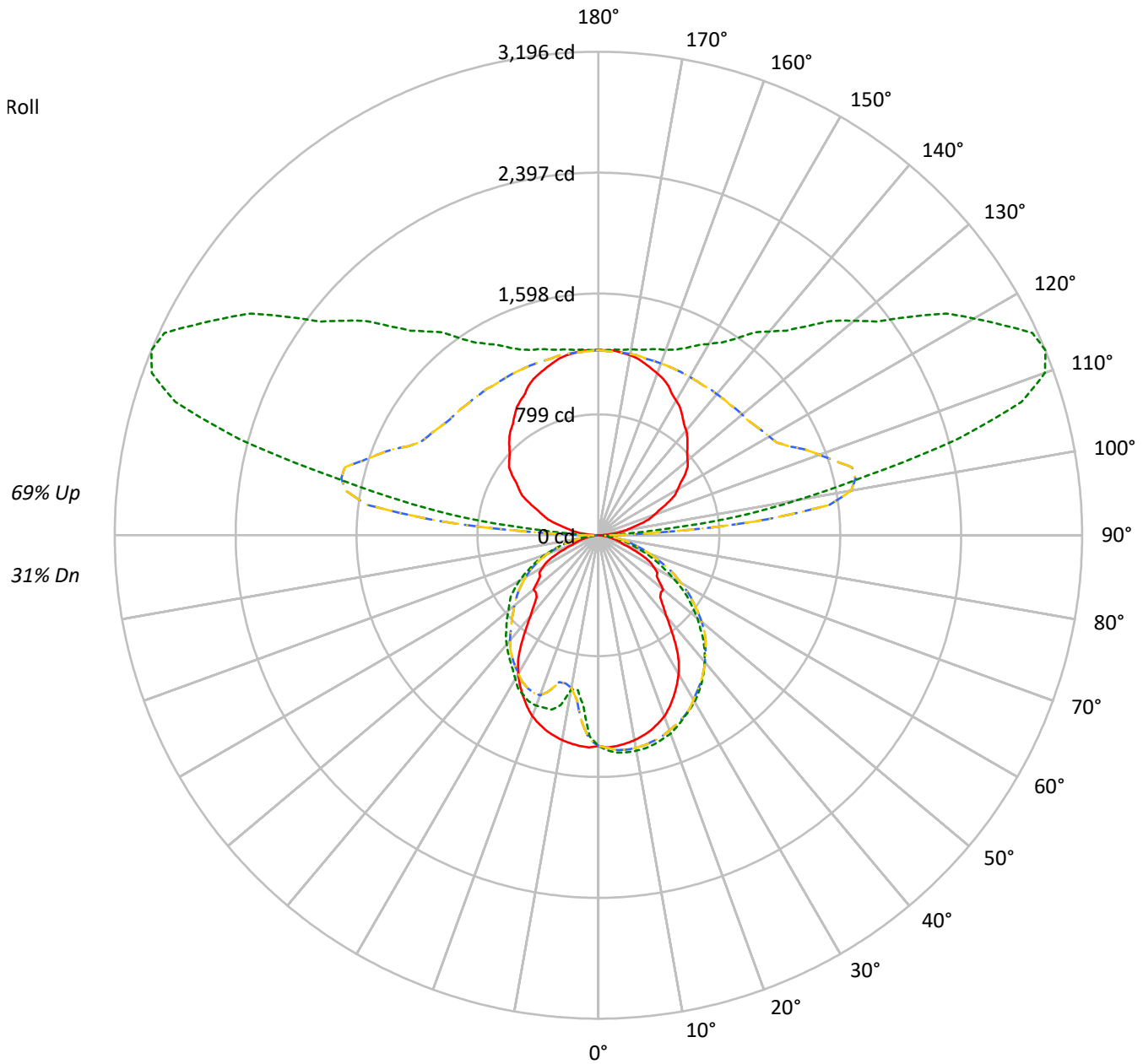
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11552.2 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 95.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8614	8614	8614	8614
5°	8675	8696	8675	6837
10°	8614	8566	8614	6124
15°	8518	8380	8518	6998
20°	8336	8161	8336	7012
25°	7968	7840	7968	6864
30°	7494	7573	7494	6537
35°	6677	7237	6677	6179
40°	5561	6841	5561	5908
45°	4965	6377	4965	5597
50°	5271	5823	5271	5284
55°	4954	5227	4954	5103
60°	5101	4439	5101	4674
65°	4617	3670	4617	4102
70°	3189	2925	3189	3438
75°	2786	2161	2786	2589
80°	2230	1430	2230	1556
85°	1258	757	1258	644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7616 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.1
10°-20°	356.9	3.1
20°-30°	551.7	4.8
30°-40°	658.6	5.7
40°-50°	662.5	5.7
50°-60°	576.4	5.0
60°-70°	408.7	3.5
70°-80°	216.2	1.9
80°-90°	58.5	0.5
90°-100°	596.8	5.2
100°-110°	1569.0	13.6
110°-120°	1626.9	14.1
120°-130°	1305.0	11.3
130°-140°	1024.0	8.9
140°-150°	785.9	6.8
150°-160°	566.0	4.9
160°-170°	346.3	3.0
170°-180°	117.0	1.0
0°-30°	1034.3	9.0
0°-40°	1692.9	14.7
0°-60°	2931.8	25.4
0°-90°	3615.3	31.3
90°-120°	3792.8	32.8
90°-150°	6907.6	59.8
90°-180°	7937.0	68.7
0°-180°	11552.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1392	1392	1392	1392	1392	
5°	1399	1443	1399	1134	1399	133
15°	1336	1429	1336	1194	1336	376
25°	1176	1333	1176	1167	1176	540
35°	894	1190	894	1016	894	553
45°	577	980	577	860	577	462
55°	470	723	470	706	470	432
65°	327	436	327	488	327	312
75°	124	207	124	248	124	130
85°	21	53	21	45	21	28
90°	8	31	8	31	8	8
95°	79	361	79	361	79	88
105°	283	2457	283	2457	283	300
115°	502	3164	502	3164	502	496
125°	698	2519	698	2519	698	620
135°	832	1955	832	1955	832	644
145°	966	1586	966	1586	966	605
155°	1091	1366	1091	1366	1091	501
165°	1178	1272	1178	1272	1178	332
175°	1224	1232	1224	1232	1224	116
180°	1224	1224	1224	1224	1224	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1404.4	1404.4	1412.3	1414.9	1414.9	1411.0	1407.0	1411.0	1422.8	1426.8	1425.5
5°	1399.1	1409.7	1424.2	1426.8	1429.4	1428.1	1425.5	1428.1	1441.3	1443.9	1445.2
7.5°	1388.6	1408.4	1426.8	1430.8	1434.7	1430.8	1429.4	1432.1	1445.2	1447.9	1447.9
10°	1375.4	1403.1	1424.2	1426.8	1430.8	1426.8	1426.8	1432.1	1445.2	1447.9	1449.2
12.5°	1357.0	1395.2	1414.9	1417.6	1422.8	1421.5	1420.2	1425.5	1438.7	1441.3	1441.3
15°	1335.9	1380.7	1399.1	1401.8	1411.0	1408.4	1408.4	1413.6	1428.1	1432.1	1430.8
17.5°	1306.9	1362.2	1383.3	1387.3	1393.9	1392.5	1393.9	1399.1	1412.3	1414.9	1416.3
20°	1274.0	1337.2	1362.2	1366.2	1372.8	1372.8	1372.8	1379.4	1392.5	1397.8	1397.8
22.5°	1229.2	1310.9	1337.2	1339.8	1347.8	1347.8	1350.4	1359.6	1371.5	1372.8	1372.8
25°	1176.5	1281.9	1304.3	1312.2	1320.1	1324.0	1328.0	1333.3	1337.2	1335.9	1337.2
27.5°	1121.2	1245.0	1274.0	1279.2	1289.8	1293.7	1299.0	1300.3	1301.6	1305.6	1303.0
30°	1059.2	1193.6	1237.1	1242.4	1259.5	1262.1	1256.8	1259.5	1266.1	1268.7	1271.3
32.5°	989.4	1117.2	1198.9	1210.7	1226.5	1218.6	1217.3	1221.3	1231.8	1231.8	1234.5
35°	894.5	1057.9	1163.3	1173.8	1185.7	1176.5	1181.8	1183.1	1189.7	1193.6	1192.3
37.5°	790.5	1006.5	1126.4	1134.3	1143.5	1131.7	1139.6	1143.5	1148.8	1146.2	1146.2
40°	698.2	926.2	1082.9	1088.2	1096.1	1086.9	1094.8	1097.4	1100.1	1097.4	1096.1
42.5°	629.7	837.9	1036.8	1043.4	1038.2	1044.7	1047.4	1052.6	1048.7	1043.4	1043.4
45°	577.0	814.2	986.8	994.7	986.8	997.3	1001.3	1001.3	989.4	986.8	985.5
47.5°	559.9	766.8	936.7	936.7	932.8	945.9	952.5	943.3	931.4	927.5	927.5
50°	558.6	714.1	868.2	862.9	881.4	897.2	890.6	881.4	872.2	857.7	857.7
52.5°	507.2	649.5	779.9	799.7	828.7	837.9	827.4	818.1	802.3	795.7	790.5
55°	470.3	582.3	699.6	739.1	769.4	781.2	761.5	752.3	728.6	724.6	722.0
57.5°	462.4	484.8	625.8	675.9	712.7	711.4	699.6	682.4	662.7	658.7	657.4
60°	424.2	350.4	546.7	606.0	644.2	640.3	629.7	613.9	595.5	592.9	590.2
62.5°	384.7	254.3	457.2	524.3	578.4	577.0	567.8	544.1	530.9	524.3	519.1
65°	326.7	213.4	325.4	436.1	513.8	516.4	496.7	479.6	465.1	457.2	455.8
67.5°	249.0	173.9	220.0	363.6	451.9	449.3	424.2	416.3	397.9	393.9	386.0
70°	184.4	115.9	152.8	295.1	391.3	384.7	364.9	355.7	338.6	329.4	324.1
72.5°	152.8	93.5	112.0	229.2	329.4	321.5	304.3	293.8	279.3	271.4	266.1
75°	123.8	98.8	85.6	170.0	267.4	262.2	246.4	235.8	224.0	213.4	214.7
77.5°	90.9	92.2	68.5	125.2	212.1	204.2	195.0	181.8	176.5	166.0	166.0
80°	68.5	72.5	51.4	85.6	152.8	152.8	144.9	135.7	126.5	121.2	121.2
82.5°	46.1	46.1	38.2	54.0	104.1	100.1	94.9	92.2	87.0	84.3	84.3
85°	21.1	26.3	23.7	32.9	56.7	59.3	59.3	56.7	55.3	52.7	54.0
87.5°	6.6	11.9	14.5	18.4	29.0	30.3	31.6	31.6	31.6	32.9	32.9
90°	8.3	14.8	21.3	23.0	36.2	53.7	62.4	55.5	41.6	31.3	31.3
92.5°	32.8	88.7	144.7	158.6	223.0	308.8	351.7	308.2	221.3	156.2	149.9
95°	78.9	181.1	283.4	309.0	548.7	868.2	1028.0	917.3	696.0	530.0	511.2
97.5°	136.4	226.6	316.8	339.4	739.0	1271.9	1538.3	1468.3	1328.4	1223.6	1187.7
100°	180.8	262.6	344.4	364.8	808.3	1399.6	1695.2	1700.3	1710.6	1718.2	1675.6
102.5°	218.6	294.9	371.3	390.3	840.1	1439.7	1739.6	1828.6	2006.8	2140.5	2104.0
105°	282.6	347.3	411.9	428.1	863.6	1444.3	1734.6	1934.4	2333.9	2633.6	2613.9
107.5°	348.4	408.7	468.9	483.9	867.9	1380.0	1636.0	1914.7	2472.0	2890.0	2894.7
110°	392.8	447.2	501.6	515.2	861.4	1323.0	1553.8	1865.3	2488.4	2955.7	2976.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	436.3	488.2	540.0	553.0	861.7	1273.3	1479.1	1797.9	2435.5	2913.8	2945.2
115°	502.0	549.9	597.8	609.7	869.6	1216.2	1389.5	1696.6	2310.9	2771.6	2815.1
117.5°	566.9	610.4	653.9	664.8	885.9	1180.5	1327.9	1605.1	2159.4	2575.2	2623.5
120°	604.8	645.7	686.7	696.8	898.9	1168.5	1303.2	1556.5	2063.0	2442.9	2489.8
122.5°	641.8	683.1	724.3	734.6	917.8	1162.2	1284.3	1512.4	1968.5	2310.6	2356.9
125°	698.4	736.0	773.7	783.1	943.3	1157.0	1263.8	1457.5	1845.0	2135.6	2178.2
127.5°	744.4	782.4	820.4	829.9	968.8	1153.9	1246.5	1412.8	1745.5	1995.1	2031.1
130°	769.1	810.1	851.0	861.2	987.5	1155.8	1240.0	1388.1	1684.2	1906.4	1939.6
132.5°	794.6	835.5	876.5	886.6	1002.5	1157.0	1234.2	1366.7	1631.9	1830.7	1860.5
135°	832.4	869.6	906.9	916.2	1018.9	1155.8	1224.4	1335.4	1557.4	1723.9	1749.6
137.5°	871.0	907.9	944.8	954.0	1043.6	1163.0	1222.7	1316.6	1504.3	1645.1	1666.0
140°	903.1	937.1	971.0	979.5	1058.6	1164.2	1217.0	1298.0	1460.2	1581.8	1601.4
142.5°	927.7	959.1	990.5	998.4	1071.3	1168.4	1217.0	1288.2	1430.6	1537.4	1554.2
145°	965.5	992.9	1020.3	1027.2	1087.7	1168.4	1208.7	1266.9	1383.5	1470.9	1483.6
147.5°	1003.3	1030.0	1056.6	1063.3	1111.8	1176.4	1208.7	1254.6	1346.2	1414.9	1425.6
150°	1028.0	1052.0	1076.1	1082.2	1124.3	1180.6	1208.7	1247.5	1324.8	1382.9	1391.5
152.5°	1053.4	1071.7	1090.0	1094.5	1132.6	1183.3	1208.7	1241.7	1307.9	1357.4	1363.9
155°	1091.2	1104.7	1118.3	1121.6	1150.7	1189.4	1208.7	1235.0	1287.6	1327.0	1331.3
157.5°	1119.1	1132.3	1145.5	1148.7	1168.8	1195.4	1208.7	1229.2	1270.1	1300.8	1303.8
160°	1138.1	1148.3	1158.5	1161.0	1176.9	1198.1	1208.7	1226.3	1261.3	1287.6	1289.3
162.5°	1157.0	1164.6	1172.3	1174.2	1185.7	1201.1	1208.7	1223.5	1253.1	1275.3	1277.0
165°	1177.5	1184.5	1191.3	1193.1	1198.3	1205.2	1208.7	1219.3	1240.5	1256.4	1258.2
167.5°	1196.4	1199.7	1203.0	1203.8	1208.2	1214.1	1217.0	1223.9	1237.8	1248.2	1248.9
170°	1208.7	1212.0	1215.3	1216.1	1216.4	1216.8	1217.0	1223.9	1237.8	1248.2	1248.2
172.5°	1215.3	1216.0	1216.8	1217.0	1217.0	1217.0	1217.0	1222.4	1233.4	1241.6	1241.0
175°	1224.4	1224.4	1224.4	1224.4	1221.9	1218.6	1217.0	1220.4	1227.3	1232.5	1232.5
177.5°	1224.4	1224.4	1224.4	1224.4	1222.4	1219.9	1218.6	1221.3	1226.8	1230.9	1230.2
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1428.1	1424.2	1428.1	1425.5	1426.8	1422.8	1411.0	1407.0	1411.0	1414.9	1414.9
5°	1445.2	1442.6	1445.2	1445.2	1443.9	1441.3	1428.1	1425.5	1428.1	1429.4	1426.8
7.5°	1450.5	1446.6	1450.5	1447.9	1447.9	1445.2	1432.1	1429.4	1430.8	1434.7	1430.8
10°	1450.5	1446.6	1450.5	1449.2	1447.9	1445.2	1432.1	1426.8	1426.8	1430.8	1426.8
12.5°	1443.9	1441.3	1443.9	1441.3	1441.3	1438.7	1425.5	1420.2	1421.5	1422.8	1417.6
15°	1433.4	1429.4	1433.4	1430.8	1432.1	1428.1	1413.6	1408.4	1408.4	1411.0	1401.8
17.5°	1417.6	1412.3	1417.6	1416.3	1414.9	1412.3	1399.1	1393.9	1392.5	1393.9	1387.3
20°	1399.1	1395.2	1399.1	1397.8	1397.8	1392.5	1379.4	1372.8	1372.8	1372.8	1366.2
22.5°	1370.1	1366.2	1370.1	1372.8	1372.8	1371.5	1359.6	1350.4	1347.8	1347.8	1339.8
25°	1337.2	1333.3	1337.2	1337.2	1335.9	1337.2	1333.3	1328.0	1324.0	1320.1	1312.2
27.5°	1305.6	1303.0	1305.6	1303.0	1305.6	1301.6	1300.3	1299.0	1293.7	1289.8	1279.2
30°	1274.0	1271.3	1274.0	1271.3	1268.7	1266.1	1259.5	1256.8	1262.1	1259.5	1242.4
32.5°	1234.5	1231.8	1234.5	1234.5	1231.8	1231.8	1221.3	1217.3	1218.6	1226.5	1210.7
35°	1193.6	1189.7	1193.6	1192.3	1193.6	1189.7	1183.1	1181.8	1176.5	1185.7	1173.8
37.5°	1146.2	1142.2	1146.2	1146.2	1146.2	1148.8	1143.5	1139.6	1131.7	1143.5	1134.3
40°	1097.4	1092.2	1097.4	1096.1	1097.4	1100.1	1097.4	1094.8	1086.9	1096.1	1088.2
42.5°	1042.1	1040.8	1042.1	1043.4	1043.4	1048.7	1052.6	1047.4	1044.7	1038.2	1043.4
45°	982.8	980.2	982.8	985.5	986.8	989.4	1001.3	1001.3	997.3	986.8	994.7
47.5°	919.6	913.0	919.6	927.5	927.5	931.4	943.3	952.5	945.9	932.8	936.7
50°	852.4	853.7	852.4	857.7	857.7	872.2	881.4	890.6	897.2	881.4	862.9
52.5°	786.5	785.2	786.5	790.5	795.7	802.3	818.1	827.4	837.9	828.7	799.7
55°	720.6	723.3	720.6	722.0	724.6	728.6	752.3	761.5	781.2	769.4	739.1
57.5°	654.8	650.8	654.8	657.4	658.7	662.7	682.4	699.6	711.4	712.7	675.9
60°	578.4	573.1	578.4	590.2	592.9	595.5	613.9	629.7	640.3	644.2	606.0
62.5°	511.2	501.9	511.2	519.1	524.3	530.9	544.1	567.8	577.0	578.4	524.3
65°	440.0	436.1	440.0	455.8	457.2	465.1	479.6	496.7	516.4	513.8	436.1
67.5°	375.5	375.5	375.5	386.0	393.9	397.9	416.3	424.2	449.3	451.9	363.6
70°	316.2	314.9	316.2	324.1	329.4	338.6	355.7	364.9	384.7	391.3	295.1
72.5°	259.5	258.2	259.5	266.1	271.4	279.3	293.8	304.3	321.5	329.4	229.2
75°	209.5	206.8	209.5	214.7	213.4	224.0	235.8	246.4	262.2	267.4	170.0
77.5°	160.7	160.7	160.7	166.0	166.0	176.5	181.8	195.0	204.2	212.1	125.2
80°	119.9	118.6	119.9	121.2	121.2	126.5	135.7	144.9	152.8	152.8	85.6
82.5°	84.3	81.7	84.3	84.3	84.3	87.0	92.2	94.9	100.1	104.1	54.0
85°	52.7	52.7	52.7	54.0	52.7	55.3	56.7	59.3	59.3	56.7	32.9
87.5°	34.3	32.9	34.3	32.9	32.9	31.6	31.6	31.6	30.3	29.0	18.4
90°	31.3	31.3	31.3	31.3	31.3	41.6	55.5	62.4	53.7	36.2	23.0
92.5°	125.1	100.2	125.1	149.9	156.2	221.3	308.2	351.7	308.8	223.0	158.6
95°	435.9	360.7	435.9	511.2	530.0	696.0	917.3	1028.0	868.2	548.7	309.0
97.5°	1044.6	901.4	1044.6	1187.7	1223.6	1328.4	1468.3	1538.3	1271.9	739.0	339.4
100°	1505.1	1334.5	1505.1	1675.6	1718.2	1710.6	1700.3	1695.2	1399.6	808.3	364.8
102.5°	1957.9	1811.8	1957.9	2104.0	2140.5	2006.8	1828.6	1739.6	1439.7	840.1	390.3
105°	2535.4	2456.9	2535.4	2613.9	2633.6	2333.9	1934.4	1734.6	1444.3	863.6	428.1
107.5°	2913.7	2932.6	2913.7	2894.7	2890.0	2472.0	1914.7	1636.0	1380.0	867.9	483.9
110°	3057.9	3139.8	3057.9	2976.1	2955.7	2488.4	1865.3	1553.8	1323.0	861.4	515.2



TEST NUMBER: P935961

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3070.8	3196.4	3070.8	2945.2	2913.8	2435.5	1797.9	1479.1	1273.3	861.7	553.0
115°	2989.3	3163.6	2989.3	2815.1	2771.6	2310.9	1696.6	1389.5	1216.2	869.6	609.7
117.5°	2816.7	3009.9	2816.7	2623.5	2575.2	2159.4	1605.1	1327.9	1180.5	885.9	664.8
120°	2677.6	2865.3	2677.6	2489.8	2442.9	2063.0	1556.5	1303.2	1168.5	898.9	696.8
122.5°	2542.1	2727.2	2542.1	2356.9	2310.6	1968.5	1512.4	1284.3	1162.2	917.8	734.6
125°	2348.8	2519.3	2348.8	2178.2	2135.6	1845.0	1457.5	1263.8	1157.0	943.3	783.1
127.5°	2174.9	2318.9	2174.9	2031.1	1995.1	1745.5	1412.8	1246.5	1153.9	968.8	829.9
130°	2072.5	2205.4	2072.5	1939.6	1906.4	1684.2	1388.1	1240.0	1155.8	987.5	861.2
132.5°	1979.5	2098.6	1979.5	1860.5	1830.7	1631.9	1366.7	1234.2	1157.0	1002.5	886.6
135°	1852.2	1954.8	1852.2	1749.6	1723.9	1557.4	1335.4	1224.4	1155.8	1018.9	916.2
137.5°	1750.1	1834.1	1750.1	1666.0	1645.1	1504.3	1316.6	1222.7	1163.0	1043.6	954.0
140°	1679.9	1758.4	1679.9	1601.4	1581.8	1460.2	1298.0	1217.0	1164.2	1058.6	979.5
142.5°	1621.9	1689.4	1621.9	1554.2	1537.4	1430.6	1288.2	1217.0	1168.4	1071.3	998.4
145°	1534.7	1585.9	1534.7	1483.6	1470.9	1383.5	1266.9	1208.7	1168.4	1087.7	1027.2
147.5°	1467.9	1510.3	1467.9	1425.6	1414.9	1346.2	1254.6	1208.7	1176.4	1111.8	1063.3
150°	1425.8	1460.2	1425.8	1391.5	1382.9	1324.8	1247.5	1208.7	1180.6	1124.3	1082.2
152.5°	1389.8	1415.8	1389.8	1363.9	1357.4	1307.9	1241.7	1208.7	1183.3	1132.6	1094.5
155°	1348.5	1365.7	1348.5	1331.3	1327.0	1287.6	1235.0	1208.7	1189.4	1150.7	1121.6
157.5°	1315.9	1327.9	1315.9	1303.8	1300.8	1270.1	1229.2	1208.7	1195.4	1168.8	1148.7
160°	1296.3	1303.2	1296.3	1289.3	1287.6	1261.3	1226.3	1208.7	1198.1	1176.9	1161.0
162.5°	1283.5	1290.0	1283.5	1277.0	1275.3	1253.1	1223.5	1208.7	1201.1	1185.7	1174.2
165°	1265.0	1272.0	1265.0	1258.2	1256.4	1240.5	1219.3	1208.7	1205.2	1198.3	1193.1
167.5°	1251.8	1254.7	1251.8	1248.9	1248.2	1237.8	1223.9	1217.0	1214.1	1208.2	1203.8
170°	1248.2	1248.2	1248.2	1248.2	1248.2	1237.8	1223.9	1217.0	1216.8	1216.4	1216.1
172.5°	1238.4	1235.9	1238.4	1241.0	1241.6	1233.4	1222.4	1217.0	1217.0	1217.0	1217.0
175°	1232.5	1232.5	1232.5	1232.5	1232.5	1227.3	1220.4	1217.0	1218.6	1221.9	1224.4
177.5°	1227.2	1224.4	1227.2	1230.2	1230.9	1226.8	1221.3	1218.6	1219.9	1222.4	1224.4
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



TEST NUMBER: P935961

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1412.3	1404.4	1404.4	1391.2	1386.0	1382.0	1375.4	1355.7	1350.4	1345.1	1353.0
5°	1424.2	1409.7	1399.1	1375.4	1355.7	1347.8	1322.7	1275.3	1243.7	1220.0	1206.8
7.5°	1426.8	1408.4	1388.6	1351.7	1304.3	1283.2	1206.8	1119.8	1096.1	1075.0	1061.9
10°	1424.2	1403.1	1375.4	1320.1	1208.1	1171.2	1094.8	1038.2	1023.7	1019.7	1023.7
12.5°	1414.9	1395.2	1357.0	1264.8	1108.0	1082.9	1038.2	1005.2	1002.6	1009.2	1044.7
15°	1399.1	1380.7	1335.9	1191.0	1052.6	1034.2	1002.6	990.7	1005.2	1051.3	1158.0
17.5°	1383.3	1362.2	1306.9	1118.5	1010.5	997.3	974.9	998.6	1080.3	1142.2	1177.8
20°	1362.2	1337.2	1274.0	1065.8	980.2	968.3	957.8	1064.5	1126.4	1148.8	1168.6
22.5°	1337.2	1310.9	1229.2	1028.9	948.6	939.3	945.9	1101.4	1126.4	1142.2	1159.4
25°	1304.3	1281.9	1176.5	999.9	923.5	913.0	938.0	1097.4	1111.9	1115.9	1150.1
27.5°	1274.0	1245.0	1121.2	973.6	893.2	889.3	944.6	1080.3	1090.8	1094.8	1131.7
30°	1237.1	1193.6	1059.2	945.9	861.6	860.3	945.9	1059.2	1056.6	1067.1	1104.0
32.5°	1198.9	1117.2	989.4	911.7	831.3	830.0	936.7	1027.6	1025.0	1039.5	1067.1
35°	1163.3	1057.9	894.5	872.2	793.1	794.4	914.3	990.7	992.0	1005.2	1022.3
37.5°	1126.4	1006.5	790.5	828.7	756.2	756.2	884.0	956.5	953.8	957.8	981.5
40°	1082.9	926.2	698.2	772.0	722.0	718.0	847.1	919.6	910.4	909.0	942.0
42.5°	1036.8	837.9	629.7	696.9	682.4	677.2	802.3	874.8	857.7	861.6	903.8
45°	986.8	814.2	577.0	588.9	641.6	637.6	753.6	823.4	811.6	822.1	865.6
47.5°	936.7	766.8	559.9	488.8	598.1	596.8	699.6	773.3	766.8	777.3	823.4
50°	868.2	714.1	558.6	418.9	549.4	554.6	635.0	724.6	724.6	733.8	782.6
52.5°	779.9	649.5	507.2	379.4	492.7	508.5	578.4	682.4	685.1	694.3	737.8
55°	699.6	582.3	470.3	349.1	425.5	459.8	523.0	639.0	644.2	653.5	693.0
57.5°	625.8	484.8	462.4	313.6	363.6	396.6	474.3	596.8	599.4	607.3	645.6
60°	546.7	350.4	424.2	275.3	309.6	334.6	429.5	546.7	556.0	561.2	594.2
62.5°	457.2	254.3	384.7	249.0	283.3	288.5	392.6	499.3	511.2	515.1	534.9
65°	325.4	213.4	326.7	226.6	255.6	256.9	353.1	450.6	461.1	467.7	482.2
67.5°	220.0	173.9	249.0	205.5	234.5	235.8	314.9	393.9	408.4	413.7	422.9
70°	152.8	115.9	184.4	183.1	210.8	213.4	274.0	342.5	355.7	359.7	364.9
72.5°	112.0	93.5	152.8	164.7	185.8	188.4	231.9	284.6	297.7	301.7	304.3
75°	85.6	98.8	123.8	143.6	158.1	159.4	189.7	231.9	241.1	243.7	245.0
77.5°	68.5	92.2	90.9	115.9	129.1	126.5	148.9	179.2	187.1	187.1	187.1
80°	51.4	72.5	68.5	83.0	94.9	92.2	106.7	127.8	130.4	133.1	131.7
82.5°	38.2	46.1	46.1	52.7	63.2	60.6	71.1	83.0	83.0	83.0	85.6
85°	23.7	26.3	21.1	27.7	35.6	34.3	39.5	44.8	46.1	46.1	43.5
87.5°	14.5	11.9	6.6	10.5	15.8	15.8	18.4	19.8	18.4	18.4	18.4
90°	21.3	14.8	8.3	14.8	21.3	23.0	36.2	53.7	62.4	55.5	41.6
92.5°	144.7	88.7	32.8	88.7	144.7	158.6	223.0	308.8	351.7	308.2	221.3
95°	283.4	181.1	78.9	181.1	283.4	309.0	548.7	868.2	1028.0	917.3	696.0
97.5°	316.8	226.6	136.4	226.6	316.8	339.4	739.0	1271.9	1538.3	1468.3	1328.4
100°	344.4	262.6	180.8	262.6	344.4	364.8	808.3	1399.6	1695.2	1700.3	1710.6
102.5°	371.3	294.9	218.6	294.9	371.3	390.3	840.1	1439.7	1739.6	1828.6	2006.8
105°	411.9	347.3	282.6	347.3	411.9	428.1	863.6	1444.3	1734.6	1934.4	2333.9
107.5°	468.9	408.7	348.4	408.7	468.9	483.9	867.9	1380.0	1636.0	1914.7	2472.0
110°	501.6	447.2	392.8	447.2	501.6	515.2	861.4	1323.0	1553.8	1865.3	2488.4



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CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	540.0	488.2	436.3	488.2	540.0	553.0	861.7	1273.3	1479.1	1797.9	2435.5
115°	597.8	549.9	502.0	549.9	597.8	609.7	869.6	1216.2	1389.5	1696.6	2310.9
117.5°	653.9	610.4	566.9	610.4	653.9	664.8	885.9	1180.5	1327.9	1605.1	2159.4
120°	686.7	645.7	604.8	645.7	686.7	696.8	898.9	1168.5	1303.2	1556.5	2063.0
122.5°	724.3	683.1	641.8	683.1	724.3	734.6	917.8	1162.2	1284.3	1512.4	1968.5
125°	773.7	736.0	698.4	736.0	773.7	783.1	943.3	1157.0	1263.8	1457.5	1845.0
127.5°	820.4	782.4	744.4	782.4	820.4	829.9	968.8	1153.9	1246.5	1412.8	1745.5
130°	851.0	810.1	769.1	810.1	851.0	861.2	987.5	1155.8	1240.0	1388.1	1684.2
132.5°	876.5	835.5	794.6	835.5	876.5	886.6	1002.5	1157.0	1234.2	1366.7	1631.9
135°	906.9	869.6	832.4	869.6	906.9	916.2	1018.9	1155.8	1224.4	1335.4	1557.4
137.5°	944.8	907.9	871.0	907.9	944.8	954.0	1043.6	1163.0	1222.7	1316.6	1504.3
140°	971.0	937.1	903.1	937.1	971.0	979.5	1058.6	1164.2	1217.0	1298.0	1460.2
142.5°	990.5	959.1	927.7	959.1	990.5	998.4	1071.3	1168.4	1217.0	1288.2	1430.6
145°	1020.3	992.9	965.5	992.9	1020.3	1027.2	1087.7	1168.4	1208.7	1266.9	1383.5
147.5°	1056.6	1030.0	1003.3	1030.0	1056.6	1063.3	1111.8	1176.4	1208.7	1254.6	1346.2
150°	1076.1	1052.0	1028.0	1052.0	1076.1	1082.2	1124.3	1180.6	1208.7	1247.5	1324.8
152.5°	1090.0	1071.7	1053.4	1071.7	1090.0	1094.5	1132.6	1183.3	1208.7	1241.7	1307.9
155°	1118.3	1104.7	1091.2	1104.7	1118.3	1121.6	1150.7	1189.4	1208.7	1235.0	1287.6
157.5°	1145.5	1132.3	1119.1	1132.3	1145.5	1148.7	1168.8	1195.4	1208.7	1229.2	1270.1
160°	1158.5	1148.3	1138.1	1148.3	1158.5	1161.0	1176.9	1198.1	1208.7	1226.3	1261.3
162.5°	1172.3	1164.6	1157.0	1164.6	1172.3	1174.2	1185.7	1201.1	1208.7	1223.5	1253.1
165°	1191.3	1184.5	1177.5	1184.5	1191.3	1193.1	1198.3	1205.2	1208.7	1219.3	1240.5
167.5°	1203.0	1199.7	1196.4	1199.7	1203.0	1203.8	1208.2	1214.1	1217.0	1223.9	1237.8
170°	1215.3	1212.0	1208.7	1212.0	1215.3	1216.1	1216.4	1216.8	1217.0	1223.9	1237.8
172.5°	1216.8	1216.0	1215.3	1216.0	1216.8	1217.0	1217.0	1217.0	1217.0	1222.4	1233.4
175°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1221.9	1218.6	1217.0	1220.4	1227.3
177.5°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1222.4	1219.9	1218.6	1221.3	1226.8
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



TEST NUMBER: P935961

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1343.8	1339.8	1345.1	1330.6	1345.1	1339.8	1343.8	1353.0	1345.1	1350.4	1355.7
5°	1179.1	1172.5	1151.5	1134.3	1151.5	1172.5	1179.1	1206.8	1220.0	1243.7	1275.3
7.5°	1054.0	1048.7	1043.4	1032.9	1043.4	1048.7	1054.0	1061.9	1075.0	1096.1	1119.8
10°	1026.3	1027.6	1035.5	1034.2	1035.5	1027.6	1026.3	1023.7	1019.7	1023.7	1038.2
12.5°	1097.4	1109.3	1152.8	1150.1	1152.8	1109.3	1097.4	1044.7	1009.2	1002.6	1005.2
15°	1179.1	1183.1	1192.3	1193.6	1192.3	1183.1	1179.1	1158.0	1051.3	1005.2	990.7
17.5°	1187.0	1188.3	1194.9	1194.9	1194.9	1188.3	1187.0	1177.8	1142.2	1080.3	998.6
20°	1180.4	1183.1	1196.2	1198.9	1196.2	1183.1	1180.4	1168.6	1148.8	1126.4	1064.5
22.5°	1177.8	1183.1	1193.6	1192.3	1193.6	1183.1	1177.8	1159.4	1142.2	1126.4	1101.4
25°	1164.6	1164.6	1165.9	1167.3	1165.9	1164.6	1164.6	1150.1	1115.9	1111.9	1097.4
27.5°	1137.0	1139.6	1147.5	1146.2	1147.5	1139.6	1137.0	1131.7	1094.8	1090.8	1080.3
30°	1111.9	1109.3	1102.7	1097.4	1102.7	1109.3	1111.9	1104.0	1067.1	1056.6	1059.2
32.5°	1069.8	1063.2	1056.6	1052.6	1056.6	1063.2	1069.8	1067.1	1039.5	1025.0	1027.6
35°	1019.7	1021.0	1019.7	1015.8	1019.7	1021.0	1019.7	1022.3	1005.2	992.0	990.7
37.5°	984.1	986.8	985.5	980.2	985.5	986.8	984.1	981.5	957.8	953.8	956.5
40°	947.2	948.6	947.2	943.3	947.2	948.6	947.2	942.0	909.0	910.4	919.6
42.5°	911.7	910.4	906.4	903.8	906.4	910.4	911.7	903.8	861.6	857.7	874.8
45°	870.8	872.2	864.2	860.3	864.2	872.2	870.8	865.6	822.1	811.6	823.4
47.5°	830.0	830.0	823.4	819.5	823.4	830.0	830.0	823.4	777.3	766.8	773.3
50°	786.5	785.2	776.0	774.7	776.0	785.2	786.5	782.6	733.8	724.6	724.6
52.5°	736.5	736.5	737.8	740.4	737.8	736.5	736.5	737.8	694.3	685.1	682.4
55°	693.0	694.3	703.5	706.2	703.5	694.3	693.0	693.0	653.5	644.2	639.0
57.5°	648.2	648.2	654.8	654.8	654.8	648.2	648.2	645.6	607.3	599.4	596.8
60°	596.8	599.4	604.7	603.4	604.7	599.4	596.8	594.2	561.2	556.0	546.7
62.5°	542.8	545.4	546.7	544.1	546.7	545.4	542.8	534.9	515.1	511.2	499.3
65°	486.1	488.8	490.1	487.5	490.1	488.8	486.1	482.2	467.7	461.1	450.6
67.5°	428.2	426.9	425.5	430.8	425.5	426.9	428.2	422.9	413.7	408.4	393.9
70°	368.9	368.9	367.6	370.2	367.6	368.9	368.9	364.9	359.7	355.7	342.5
72.5°	305.6	304.3	309.6	305.6	309.6	304.3	305.6	304.3	301.7	297.7	284.6
75°	243.7	246.4	243.7	247.7	243.7	246.4	243.7	245.0	243.7	241.1	231.9
77.5°	185.8	188.4	185.8	185.8	185.8	188.4	185.8	187.1	187.1	187.1	179.2
80°	131.7	130.4	130.4	129.1	130.4	130.4	131.7	131.7	133.1	130.4	127.8
82.5°	84.3	83.0	83.0	85.6	83.0	83.0	84.3	85.6	83.0	83.0	83.0
85°	46.1	47.4	44.8	44.8	44.8	47.4	46.1	43.5	46.1	46.1	44.8
87.5°	17.1	15.8	15.8	15.8	15.8	15.8	17.1	18.4	18.4	18.4	19.8
90°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	41.6	55.5	62.4	53.7
92.5°	156.2	149.9	125.1	100.2	125.1	149.9	156.2	221.3	308.2	351.7	308.8
95°	530.0	511.2	435.9	360.7	435.9	511.2	530.0	696.0	917.3	1028.0	868.2
97.5°	1223.6	1187.7	1044.6	901.4	1044.6	1187.7	1223.6	1328.4	1468.3	1538.3	1271.9
100°	1718.2	1675.6	1505.1	1334.5	1505.1	1675.6	1718.2	1710.6	1700.3	1695.2	1399.6
102.5°	2140.5	2104.0	1957.9	1811.8	1957.9	2104.0	2140.5	2006.8	1828.6	1739.6	1439.7
105°	2633.6	2613.9	2535.4	2456.9	2535.4	2613.9	2633.6	2333.9	1934.4	1734.6	1444.3
107.5°	2890.0	2894.7	2913.7	2932.6	2913.7	2894.7	2890.0	2472.0	1914.7	1636.0	1380.0
110°	2955.7	2976.1	3057.9	3139.8	3057.9	2976.1	2955.7	2488.4	1865.3	1553.8	1323.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2913.8	2945.2	3070.8	3196.4	3070.8	2945.2	2913.8	2435.5	1797.9	1479.1	1273.3
115°	2771.6	2815.1	2989.3	3163.6	2989.3	2815.1	2771.6	2310.9	1696.6	1389.5	1216.2
117.5°	2575.2	2623.5	2816.7	3009.9	2816.7	2623.5	2575.2	2159.4	1605.1	1327.9	1180.5
120°	2442.9	2489.8	2677.6	2865.3	2677.6	2489.8	2442.9	2063.0	1556.5	1303.2	1168.5
122.5°	2310.6	2356.9	2542.1	2727.2	2542.1	2356.9	2310.6	1968.5	1512.4	1284.3	1162.2
125°	2135.6	2178.2	2348.8	2519.3	2348.8	2178.2	2135.6	1845.0	1457.5	1263.8	1157.0
127.5°	1995.1	2031.1	2174.9	2318.9	2174.9	2031.1	1995.1	1745.5	1412.8	1246.5	1153.9
130°	1906.4	1939.6	2072.5	2205.4	2072.5	1939.6	1906.4	1684.2	1388.1	1240.0	1155.8
132.5°	1830.7	1860.5	1979.5	2098.6	1979.5	1860.5	1830.7	1631.9	1366.7	1234.2	1157.0
135°	1723.9	1749.6	1852.2	1954.8	1852.2	1749.6	1723.9	1557.4	1335.4	1224.4	1155.8
137.5°	1645.1	1666.0	1750.1	1834.1	1750.1	1666.0	1645.1	1504.3	1316.6	1222.7	1163.0
140°	1581.8	1601.4	1679.9	1758.4	1679.9	1601.4	1581.8	1460.2	1298.0	1217.0	1164.2
142.5°	1537.4	1554.2	1621.9	1689.4	1621.9	1554.2	1537.4	1430.6	1288.2	1217.0	1168.4
145°	1470.9	1483.6	1534.7	1585.9	1534.7	1483.6	1470.9	1383.5	1266.9	1208.7	1168.4
147.5°	1414.9	1425.6	1467.9	1510.3	1467.9	1425.6	1414.9	1346.2	1254.6	1208.7	1176.4
150°	1382.9	1391.5	1425.8	1460.2	1425.8	1391.5	1382.9	1324.8	1247.5	1208.7	1180.6
152.5°	1357.4	1363.9	1389.8	1415.8	1389.8	1363.9	1357.4	1307.9	1241.7	1208.7	1183.3
155°	1327.0	1331.3	1348.5	1365.7	1348.5	1331.3	1327.0	1287.6	1235.0	1208.7	1189.4
157.5°	1300.8	1303.8	1315.9	1327.9	1315.9	1303.8	1300.8	1270.1	1229.2	1208.7	1195.4
160°	1287.6	1289.3	1296.3	1303.2	1296.3	1289.3	1287.6	1261.3	1226.3	1208.7	1198.1
162.5°	1275.3	1277.0	1283.5	1290.0	1283.5	1277.0	1275.3	1253.1	1223.5	1208.7	1201.1
165°	1256.4	1258.2	1265.0	1272.0	1265.0	1258.2	1256.4	1240.5	1219.3	1208.7	1205.2
167.5°	1248.2	1248.9	1251.8	1254.7	1251.8	1248.9	1248.2	1237.8	1223.9	1217.0	1214.1
170°	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2	1237.8	1223.9	1217.0	1216.8
172.5°	1241.6	1241.0	1238.4	1235.9	1238.4	1241.0	1241.6	1233.4	1222.4	1217.0	1217.0
175°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1227.3	1220.4	1217.0	1218.6
177.5°	1230.9	1230.2	1227.2	1224.4	1227.2	1230.2	1230.9	1226.8	1221.3	1218.6	1219.9
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1375.4	1382.0	1386.0	1391.2	1404.4
5°	1322.7	1347.8	1355.7	1375.4	1399.1
7.5°	1206.8	1283.2	1304.3	1351.7	1388.6
10°	1094.8	1171.2	1208.1	1320.1	1375.4
12.5°	1038.2	1082.9	1108.0	1264.8	1357.0
15°	1002.6	1034.2	1052.6	1191.0	1335.9
17.5°	974.9	997.3	1010.5	1118.5	1306.9
20°	957.8	968.3	980.2	1065.8	1274.0
22.5°	945.9	939.3	948.6	1028.9	1229.2
25°	938.0	913.0	923.5	999.9	1176.5
27.5°	944.6	889.3	893.2	973.6	1121.2
30°	945.9	860.3	861.6	945.9	1059.2
32.5°	936.7	830.0	831.3	911.7	989.4
35°	914.3	794.4	793.1	872.2	894.5
37.5°	884.0	756.2	756.2	828.7	790.5
40°	847.1	718.0	722.0	772.0	698.2
42.5°	802.3	677.2	682.4	696.9	629.7
45°	753.6	637.6	641.6	588.9	577.0
47.5°	699.6	596.8	598.1	488.8	559.9
50°	635.0	554.6	549.4	418.9	558.6
52.5°	578.4	508.5	492.7	379.4	507.2
55°	523.0	459.8	425.5	349.1	470.3
57.5°	474.3	396.6	363.6	313.6	462.4
60°	429.5	334.6	309.6	275.3	424.2
62.5°	392.6	288.5	283.3	249.0	384.7
65°	353.1	256.9	255.6	226.6	326.7
67.5°	314.9	235.8	234.5	205.5	249.0
70°	274.0	213.4	210.8	183.1	184.4
72.5°	231.9	188.4	185.8	164.7	152.8
75°	189.7	159.4	158.1	143.6	123.8
77.5°	148.9	126.5	129.1	115.9	90.9
80°	106.7	92.2	94.9	83.0	68.5
82.5°	71.1	60.6	63.2	52.7	46.1
85°	39.5	34.3	35.6	27.7	21.1
87.5°	18.4	15.8	15.8	10.5	6.6
90°	36.2	23.0	21.3	14.8	8.3
92.5°	223.0	158.6	144.7	88.7	32.8
95°	548.7	309.0	283.4	181.1	78.9
97.5°	739.0	339.4	316.8	226.6	136.4
100°	808.3	364.8	344.4	262.6	180.8
102.5°	840.1	390.3	371.3	294.9	218.6
105°	863.6	428.1	411.9	347.3	282.6
107.5°	867.9	483.9	468.9	408.7	348.4
110°	861.4	515.2	501.6	447.2	392.8



TEST NUMBER: P935961

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	861.7	553.0	540.0	488.2	436.3
115°	869.6	609.7	597.8	549.9	502.0
117.5°	885.9	664.8	653.9	610.4	566.9
120°	898.9	696.8	686.7	645.7	604.8
122.5°	917.8	734.6	724.3	683.1	641.8
125°	943.3	783.1	773.7	736.0	698.4
127.5°	968.8	829.9	820.4	782.4	744.4
130°	987.5	861.2	851.0	810.1	769.1
132.5°	1002.5	886.6	876.5	835.5	794.6
135°	1018.9	916.2	906.9	869.6	832.4
137.5°	1043.6	954.0	944.8	907.9	871.0
140°	1058.6	979.5	971.0	937.1	903.1
142.5°	1071.3	998.4	990.5	959.1	927.7
145°	1087.7	1027.2	1020.3	992.9	965.5
147.5°	1111.8	1063.3	1056.6	1030.0	1003.3
150°	1124.3	1082.2	1076.1	1052.0	1028.0
152.5°	1132.6	1094.5	1090.0	1071.7	1053.4
155°	1150.7	1121.6	1118.3	1104.7	1091.2
157.5°	1168.8	1148.7	1145.5	1132.3	1119.1
160°	1176.9	1161.0	1158.5	1148.3	1138.1
162.5°	1185.7	1174.2	1172.3	1164.6	1157.0
165°	1198.3	1193.1	1191.3	1184.5	1177.5
167.5°	1208.2	1203.8	1203.0	1199.7	1196.4
170°	1216.4	1216.1	1215.3	1212.0	1208.7
172.5°	1217.0	1217.0	1216.8	1216.0	1215.3
175°	1221.9	1224.4	1224.4	1224.4	1224.4
177.5°	1222.4	1224.4	1224.4	1224.4	1224.4
180°	1224.4	1224.4	1224.4	1224.4	1224.4



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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	10.24	10.96	11.35	12.06	13.57	13.07	13.78	14.17	14.88	16.40
	3H	10.71	11.35	11.82	12.46	13.99	14.40	15.04	15.51	16.15	17.68
	4H	10.89	11.50	12.02	12.61	14.15	14.84	15.44	15.96	16.55	18.09
	6H	11.01	11.56	12.14	12.68	14.23	15.11	15.67	16.24	16.78	18.33
	8H	11.00	11.53	12.14	12.66	14.20	15.18	15.71	16.32	16.84	18.38
	12H	10.97	11.47	12.11	12.59	14.16	15.22	15.72	16.35	16.84	18.41
4H	2H	11.26	11.87	12.39	12.97	14.51	13.46	14.07	14.59	15.18	16.71
	3H	12.27	12.78	13.41	13.91	15.46	14.95	15.46	16.09	16.59	18.14
	4H	12.54	13.01	13.68	14.13	15.70	15.47	15.94	16.61	17.06	18.63
	6H	12.66	13.06	13.80	14.20	15.76	15.83	16.22	16.97	17.37	18.93
	8H	12.66	13.03	13.80	14.17	15.75	15.93	16.30	17.07	17.44	19.02
	12H	12.62	12.96	13.78	14.11	15.69	15.98	16.31	17.14	17.47	19.05
8H	4H	12.98	13.35	14.13	14.49	16.07	15.58	15.96	16.73	17.09	18.67
	6H	13.24	13.54	14.40	14.72	16.30	16.01	16.32	17.18	17.50	19.08
	8H	13.28	13.55	14.45	14.71	16.30	16.16	16.43	17.33	17.59	19.19
	12H	13.26	13.49	14.43	14.65	16.28	16.25	16.49	17.43	17.65	19.27
12H	4H	12.98	13.32	14.14	14.47	16.05	15.54	15.88	16.70	17.03	18.61
	6H	13.30	13.56	14.47	14.72	16.32	16.01	16.28	17.18	17.44	19.03
	8H	13.36	13.59	14.53	14.75	16.38	16.16	16.40	17.34	17.55	19.18