

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: P935896

Luminaire Tested: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935896
REPORT IS A COMBINATION OF REPORTS P933772 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

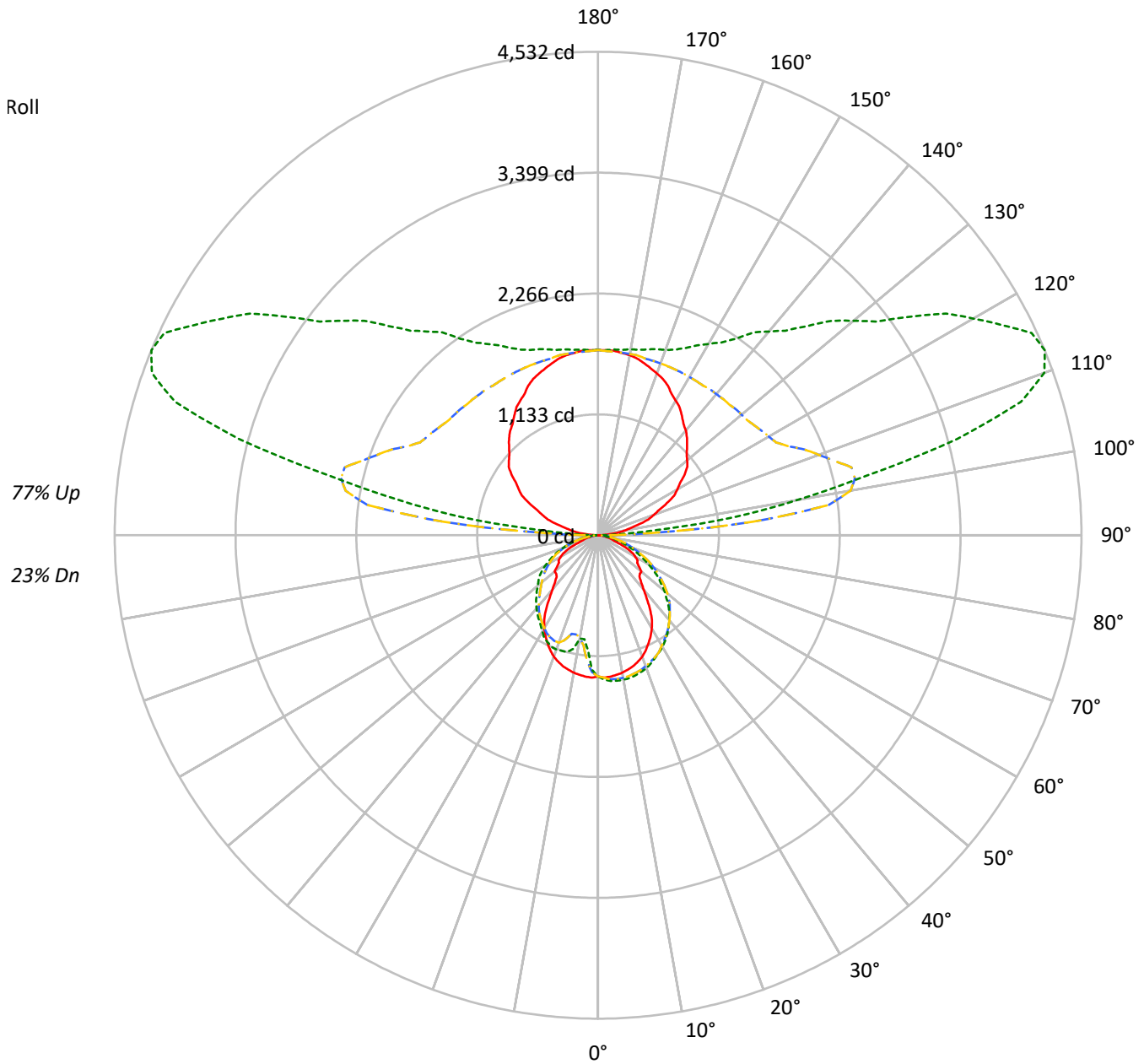
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14693.7 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 111.2
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6144	6144	6144	6144
5°	6190	6202	6190	4877
10°	6148	6109	6148	4367
15°	6081	5977	6081	4991
20°	5954	5820	5954	5001
25°	5694	5591	5694	4895
30°	5357	5402	5357	4663
35°	4776	5161	4776	4406
40°	3980	4878	3980	4214
45°	3556	4547	3556	3992
50°	3778	4153	3778	3768
55°	3554	3728	3554	3639
60°	3664	3166	3664	3333
65°	3321	2617	3321	2925
70°	2300	2086	2300	2452
75°	2018	1542	2018	1847
80°	1624	1019	1624	1109
85°	936	541	936	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	0.8
10°-20°	339.4	2.3
20°-30°	524.6	3.6
30°-40°	626.3	4.3
40°-50°	630.0	4.3
50°-60°	548.1	3.7
60°-70°	388.6	2.6
70°-80°	205.6	1.4
80°-90°	57.8	0.4
90°-100°	846.2	5.8
100°-110°	2224.7	15.1
110°-120°	2306.8	15.7
120°-130°	1850.3	12.6
130°-140°	1451.9	9.9
140°-150°	1114.3	7.6
150°-160°	802.5	5.5
160°-170°	491.0	3.3
170°-180°	165.9	1.1
0°-30°	983.5	6.7
0°-40°	1609.8	11.0
0°-60°	2787.9	19.0
0°-90°	3440.0	23.4
90°-120°	5377.7	36.6
90°-150°	9794.2	66.7
90°-180°	11254.0	76.6
0°-180°	14693.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1330	1372	1330	1079	1330	126
15°	1270	1359	1270	1135	1270	357
25°	1119	1268	1119	1110	1119	514
35°	851	1131	851	966	851	526
45°	549	932	549	818	549	440
55°	447	688	447	672	447	411
65°	311	415	311	464	311	297
75°	118	197	118	236	118	124
85°	20	50	20	43	20	27
90°	12	44	12	44	12	10
95°	112	512	112	512	112	124
105°	401	3484	401	3484	401	425
115°	712	4486	712	4486	712	703
125°	990	3572	990	3572	990	879
135°	1180	2772	1180	2772	1180	913
145°	1369	2249	1369	2249	1369	858
155°	1547	1936	1547	1936	1547	711
165°	1670	1804	1670	1804	1670	471
175°	1736	1748	1736	1748	1736	165
180°	1736	1736	1736	1736	1736	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1335.4	1335.4	1343.0	1345.5	1345.5	1341.7	1338.0	1341.7	1353.0	1356.7	1355.5
5°	1330.5	1340.5	1354.3	1356.7	1359.3	1358.0	1355.5	1358.0	1370.6	1373.1	1374.3
7.5°	1320.4	1339.3	1356.7	1360.6	1364.3	1360.6	1359.3	1361.8	1374.3	1376.8	1376.8
10°	1307.9	1334.2	1354.3	1356.7	1360.6	1356.7	1356.7	1361.8	1374.3	1376.8	1378.0
12.5°	1290.3	1326.7	1345.5	1347.9	1353.0	1351.8	1350.5	1355.5	1368.0	1370.6	1370.6
15°	1270.3	1312.9	1330.5	1332.9	1341.7	1339.3	1339.3	1344.2	1358.0	1361.8	1360.6
17.5°	1242.8	1295.4	1315.4	1319.2	1325.4	1324.2	1325.4	1330.5	1343.0	1345.5	1346.7
20°	1211.4	1271.5	1295.4	1299.1	1305.4	1305.4	1305.4	1311.6	1324.2	1329.2	1329.2
22.5°	1168.8	1246.5	1271.5	1274.1	1281.6	1281.6	1284.1	1292.8	1304.1	1305.4	1305.4
25°	1118.7	1219.0	1240.3	1247.7	1255.3	1259.0	1262.8	1267.8	1271.5	1270.3	1271.5
27.5°	1066.2	1183.8	1211.4	1216.4	1226.4	1230.3	1235.2	1236.5	1237.7	1241.5	1239.0
30°	1007.2	1135.0	1176.4	1181.4	1197.7	1200.2	1195.1	1197.7	1203.9	1206.4	1209.0
32.5°	940.8	1062.3	1140.0	1151.3	1166.4	1158.8	1157.6	1161.3	1171.3	1171.3	1173.9
35°	850.6	1006.0	1106.2	1116.2	1127.5	1118.7	1123.8	1125.0	1131.3	1135.0	1133.8
37.5°	751.7	957.2	1071.1	1078.7	1087.5	1076.2	1083.6	1087.5	1092.4	1089.9	1089.9
40°	664.0	880.7	1029.8	1034.8	1042.3	1033.6	1041.0	1043.6	1046.1	1043.6	1042.3
42.5°	598.8	796.8	985.9	992.2	987.1	993.5	995.9	1001.0	997.2	992.2	992.2
45°	548.7	774.2	938.3	945.9	938.3	948.4	952.1	952.1	940.8	938.3	937.1
47.5°	532.5	729.1	890.8	890.8	886.9	899.5	905.8	897.0	885.7	882.0	882.0
50°	531.2	679.0	825.6	820.6	838.1	853.1	846.9	838.1	829.3	815.6	815.6
52.5°	482.3	617.7	741.7	760.5	788.0	796.8	786.7	778.0	763.0	756.6	751.7
55°	447.2	553.8	665.2	702.8	731.6	742.9	724.1	715.4	692.7	689.0	686.5
57.5°	439.7	461.0	595.1	642.7	677.7	676.5	665.2	648.9	630.2	626.4	625.1
60°	403.4	333.3	519.9	576.3	612.6	608.9	598.8	583.8	566.3	563.8	561.2
62.5°	365.8	241.8	434.7	498.6	549.9	548.7	539.9	517.4	504.8	498.6	493.6
65°	310.6	203.0	309.4	414.7	488.6	491.1	472.3	456.0	442.2	434.7	433.5
67.5°	236.8	165.4	209.2	345.8	429.7	427.2	403.4	395.9	378.4	374.6	367.1
70°	175.4	110.2	145.3	280.7	372.1	365.8	347.0	338.3	321.9	313.2	308.2
72.5°	145.3	88.9	106.5	218.0	313.2	305.7	289.4	279.4	265.6	258.1	253.0
75°	117.8	94.0	81.4	161.6	254.3	249.3	234.2	224.3	213.0	203.0	204.2
77.5°	86.5	87.7	65.1	119.0	201.7	194.2	185.4	172.9	167.8	157.8	157.8
80°	65.1	68.9	48.8	81.4	145.3	145.3	137.8	129.1	120.3	115.3	115.3
82.5°	43.8	43.8	36.3	51.4	99.0	95.2	90.2	87.7	82.7	80.1	80.1
85°	20.1	25.0	22.5	31.3	53.9	56.4	56.4	53.9	52.6	50.2	51.4
87.5°	6.3	11.3	13.8	17.6	27.6	28.9	30.1	30.1	30.1	31.3	31.3
90°	11.7	21.0	30.3	32.6	51.3	76.1	88.5	78.7	59.0	44.3	44.3
92.5°	46.6	125.8	205.1	224.9	316.2	437.9	498.7	437.0	313.8	221.4	212.6
95°	111.9	256.8	401.8	438.0	777.8	1230.9	1457.5	1300.6	986.9	751.5	724.8
97.5°	193.4	321.3	449.3	481.2	1047.9	1803.4	2181.1	2081.9	1883.6	1734.8	1684.1
100°	256.3	372.3	488.3	517.3	1146.1	1984.4	2403.6	2410.8	2425.3	2436.2	2375.7
102.5°	309.9	418.2	526.3	553.4	1191.1	2041.4	2466.5	2592.9	2845.5	3035.0	2983.3
105°	400.8	492.4	584.1	607.0	1224.5	2047.8	2459.5	2742.8	3309.3	3734.1	3706.3
107.5°	494.0	579.5	664.8	686.2	1230.7	1956.7	2319.7	2714.8	3505.0	4097.6	4104.4
110°	556.9	634.1	711.2	730.5	1221.4	1875.9	2203.2	2644.9	3528.3	4190.9	4219.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	618.7	692.2	765.7	784.1	1221.8	1805.3	2097.1	2549.2	3453.3	4131.4	4175.9
115°	711.9	779.7	847.5	864.5	1233.1	1724.4	1970.2	2405.6	3276.6	3929.8	3991.5
117.5°	803.9	865.5	927.2	942.6	1255.9	1673.8	1882.8	2275.8	3061.8	3651.4	3719.8
120°	857.5	915.5	973.5	988.0	1274.6	1656.7	1847.8	2206.9	2925.2	3463.8	3530.3
122.5°	909.9	968.5	1026.9	1041.6	1301.4	1647.9	1821.0	2144.4	2791.2	3276.2	3341.9
125°	990.3	1043.7	1097.0	1110.3	1337.5	1640.4	1791.9	2066.6	2615.9	3028.0	3088.5
127.5°	1055.6	1109.4	1163.3	1176.7	1373.6	1636.2	1767.4	2003.2	2475.0	2828.8	2879.8
130°	1090.5	1148.5	1206.5	1221.0	1400.1	1638.7	1758.1	1968.0	2388.1	2703.0	2750.2
132.5°	1126.7	1184.7	1242.7	1257.2	1421.5	1640.5	1749.9	1937.9	2313.8	2595.8	2638.0
135°	1180.2	1233.1	1285.9	1299.1	1444.7	1638.9	1735.9	1893.4	2208.3	2444.4	2480.7
137.5°	1235.0	1287.3	1339.5	1352.6	1479.6	1649.0	1733.7	1866.8	2132.9	2332.5	2362.3
140°	1280.4	1328.6	1376.7	1388.8	1501.0	1650.7	1725.5	1840.4	2070.4	2242.8	2270.6
142.5°	1315.4	1359.9	1404.5	1415.6	1518.9	1656.6	1725.5	1826.4	2028.4	2179.9	2203.8
145°	1369.0	1407.8	1446.7	1456.4	1542.2	1656.6	1713.8	1796.4	1961.6	2085.5	2103.6
147.5°	1422.6	1460.4	1498.2	1507.7	1576.4	1668.0	1713.8	1778.8	1908.7	2006.2	2021.3
150°	1457.5	1491.7	1525.9	1534.4	1594.2	1673.9	1713.8	1768.7	1878.5	1960.8	1973.0
152.5°	1493.7	1519.5	1545.5	1551.9	1605.9	1677.8	1713.8	1760.7	1854.4	1924.7	1933.8
155°	1547.3	1566.4	1585.6	1590.3	1631.5	1686.3	1713.8	1751.1	1825.7	1881.6	1887.7
157.5°	1586.9	1605.5	1624.1	1628.8	1657.1	1694.9	1713.8	1742.8	1800.8	1844.4	1848.7
160°	1613.7	1628.1	1642.6	1646.3	1668.8	1698.8	1713.8	1738.6	1788.4	1825.7	1828.1
162.5°	1640.5	1651.3	1662.2	1664.9	1681.2	1703.0	1713.8	1734.8	1776.7	1808.2	1810.6
165°	1669.5	1679.3	1689.2	1691.7	1699.0	1708.8	1713.8	1728.8	1758.9	1781.4	1783.8
167.5°	1696.3	1701.0	1705.7	1706.9	1713.0	1721.4	1725.5	1735.3	1755.0	1769.7	1770.8
170°	1713.8	1718.5	1723.1	1724.4	1724.7	1725.2	1725.5	1735.3	1755.0	1769.7	1769.7
172.5°	1723.1	1724.2	1725.2	1725.5	1725.5	1725.5	1725.5	1733.2	1748.7	1760.4	1759.5
175°	1735.9	1735.9	1735.9	1735.9	1732.5	1727.8	1725.5	1730.4	1740.2	1747.6	1747.6
177.5°	1735.9	1735.9	1735.9	1735.9	1733.2	1729.6	1727.8	1731.7	1739.5	1745.3	1744.2
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1358.0	1354.3	1358.0	1355.5	1356.7	1353.0	1341.7	1338.0	1341.7	1345.5	1345.5
5°	1374.3	1371.8	1374.3	1374.3	1373.1	1370.6	1358.0	1355.5	1358.0	1359.3	1356.7
7.5°	1379.3	1375.6	1379.3	1376.8	1376.8	1374.3	1361.8	1359.3	1360.6	1364.3	1360.6
10°	1379.3	1375.6	1379.3	1378.0	1376.8	1374.3	1361.8	1356.7	1356.7	1360.6	1356.7
12.5°	1373.1	1370.6	1373.1	1370.6	1370.6	1368.0	1355.5	1350.5	1351.8	1353.0	1347.9
15°	1363.0	1359.3	1363.0	1360.6	1361.8	1358.0	1344.2	1339.3	1339.3	1341.7	1332.9
17.5°	1347.9	1343.0	1347.9	1346.7	1345.5	1343.0	1330.5	1325.4	1324.2	1325.4	1319.2
20°	1330.5	1326.7	1330.5	1329.2	1329.2	1324.2	1311.6	1305.4	1305.4	1305.4	1299.1
22.5°	1302.9	1299.1	1302.9	1305.4	1305.4	1304.1	1292.8	1284.1	1281.6	1281.6	1274.1
25°	1271.5	1267.8	1271.5	1271.5	1270.3	1271.5	1267.8	1262.8	1259.0	1255.3	1247.7
27.5°	1241.5	1239.0	1241.5	1239.0	1241.5	1237.7	1236.5	1235.2	1230.3	1226.4	1216.4
30°	1211.4	1209.0	1211.4	1209.0	1206.4	1203.9	1197.7	1195.1	1200.2	1197.7	1181.4
32.5°	1173.9	1171.3	1173.9	1173.9	1171.3	1171.3	1161.3	1157.6	1158.8	1166.4	1151.3
35°	1135.0	1131.3	1135.0	1133.8	1135.0	1131.3	1125.0	1123.8	1118.7	1127.5	1116.2
37.5°	1089.9	1086.1	1089.9	1089.9	1089.9	1092.4	1087.5	1083.6	1076.2	1087.5	1078.7
40°	1043.6	1038.5	1043.6	1042.3	1043.6	1046.1	1043.6	1041.0	1033.6	1042.3	1034.8
42.5°	991.0	989.7	991.0	992.2	992.2	997.2	1001.0	995.9	993.5	987.1	992.2
45°	934.6	932.0	934.6	937.1	938.3	940.8	952.1	952.1	948.4	938.3	945.9
47.5°	874.4	868.2	874.4	882.0	882.0	885.7	897.0	905.8	899.5	886.9	890.8
50°	810.5	811.8	810.5	815.6	815.6	829.3	838.1	846.9	853.1	838.1	820.6
52.5°	747.9	746.6	747.9	751.7	756.6	763.0	778.0	786.7	796.8	788.0	760.5
55°	685.3	687.8	685.3	686.5	689.0	692.7	715.4	724.1	742.9	731.6	702.8
57.5°	622.6	618.9	622.6	625.1	626.4	630.2	648.9	665.2	676.5	677.7	642.7
60°	549.9	545.0	549.9	561.2	563.8	566.3	583.8	598.8	608.9	612.6	576.3
62.5°	486.1	477.3	486.1	493.6	498.6	504.8	517.4	539.9	548.7	549.9	498.6
65°	418.4	414.7	418.4	433.5	434.7	442.2	456.0	472.3	491.1	488.6	414.7
67.5°	357.1	357.1	357.1	367.1	374.6	378.4	395.9	403.4	427.2	429.7	345.8
70°	300.7	299.4	300.7	308.2	313.2	321.9	338.3	347.0	365.8	372.1	280.7
72.5°	246.8	245.5	246.8	253.0	258.1	265.6	279.4	289.4	305.7	313.2	218.0
75°	199.2	196.7	199.2	204.2	203.0	213.0	224.3	234.2	249.3	254.3	161.6
77.5°	152.8	152.8	152.8	157.8	157.8	167.8	172.9	185.4	194.2	201.7	119.0
80°	114.0	112.7	114.0	115.3	115.3	120.3	129.1	137.8	145.3	145.3	81.4
82.5°	80.1	77.7	80.1	80.1	80.1	82.7	87.7	90.2	95.2	99.0	51.4
85°	50.2	50.2	50.2	51.4	50.2	52.6	53.9	56.4	56.4	53.9	31.3
87.5°	32.6	31.3	32.6	31.3	31.3	30.1	30.1	30.1	28.9	27.6	17.6
90°	44.3	44.3	44.3	44.3	44.3	59.0	78.7	88.5	76.1	51.3	32.6
92.5°	177.4	142.2	177.4	212.6	221.4	313.8	437.0	498.7	437.9	316.2	224.9
95°	618.1	511.5	618.1	724.8	751.5	986.9	1300.6	1457.5	1230.9	777.8	438.0
97.5°	1481.0	1278.1	1481.0	1684.1	1734.8	1883.6	2081.9	2181.1	1803.4	1047.9	481.2
100°	2133.9	1892.1	2133.9	2375.7	2436.2	2425.3	2410.8	2403.6	1984.4	1146.1	517.3
102.5°	2776.1	2569.1	2776.1	2983.3	3035.0	2845.5	2592.9	2466.5	2041.4	1191.1	553.4
105°	3595.0	3483.6	3595.0	3706.3	3734.1	3309.3	2742.8	2459.5	2047.8	1224.5	607.0
107.5°	4131.3	4158.2	4131.3	4104.4	4097.6	3505.0	2714.8	2319.7	1956.7	1230.7	686.2
110°	4335.8	4451.8	4335.8	4219.8	4190.9	3528.3	2644.9	2203.2	1875.9	1221.4	730.5



TEST NUMBER: P935896

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4354.0	4532.1	4354.0	4175.9	4131.4	3453.3	2549.2	2097.1	1805.3	1221.8	784.1
115°	4238.6	4485.5	4238.6	3991.5	3929.8	3276.6	2405.6	1970.2	1724.4	1233.1	864.5
117.5°	3993.8	4267.7	3993.8	3719.8	3651.4	3061.8	2275.8	1882.8	1673.8	1255.9	942.6
120°	3796.5	4062.6	3796.5	3530.3	3463.8	2925.2	2206.9	1847.8	1656.7	1274.6	988.0
122.5°	3604.4	3866.9	3604.4	3341.9	3276.2	2791.2	2144.4	1821.0	1647.9	1301.4	1041.6
125°	3330.4	3572.2	3330.4	3088.5	3028.0	2615.9	2066.6	1791.9	1640.4	1337.5	1110.3
127.5°	3083.9	3287.9	3083.9	2879.8	2828.8	2475.0	2003.2	1767.4	1636.2	1373.6	1176.7
130°	2938.6	3127.1	2938.6	2750.2	2703.0	2388.1	1968.0	1758.1	1638.7	1400.1	1221.0
132.5°	2806.8	2975.6	2806.8	2638.0	2595.8	2313.8	1937.9	1749.9	1640.5	1421.5	1257.2
135°	2626.2	2771.7	2626.2	2480.7	2444.4	2208.3	1893.4	1735.9	1638.9	1444.7	1299.1
137.5°	2481.4	2600.4	2481.4	2362.3	2332.5	2132.9	1866.8	1733.7	1649.0	1479.6	1352.6
140°	2382.0	2493.3	2382.0	2270.6	2242.8	2070.4	1840.4	1725.5	1650.7	1501.0	1388.8
142.5°	2299.6	2395.4	2299.6	2203.8	2179.9	2028.4	1826.4	1725.5	1656.6	1518.9	1415.6
145°	2176.1	2248.6	2176.1	2103.6	2085.5	1961.6	1796.4	1713.8	1656.6	1542.2	1456.4
147.5°	2081.3	2141.4	2081.3	2021.3	2006.2	1908.7	1778.8	1713.8	1668.0	1576.4	1507.7
150°	2021.7	2070.4	2021.7	1973.0	1960.8	1878.5	1768.7	1713.8	1673.9	1594.2	1534.4
152.5°	1970.6	2007.4	1970.6	1933.8	1924.7	1854.4	1760.7	1713.8	1677.8	1605.9	1551.9
155°	1912.1	1936.4	1912.1	1887.7	1881.6	1825.7	1751.1	1713.8	1686.3	1631.5	1590.3
157.5°	1865.7	1882.8	1865.7	1848.7	1844.4	1800.8	1742.8	1713.8	1694.9	1657.1	1628.8
160°	1838.0	1847.8	1838.0	1828.1	1825.7	1788.4	1738.6	1713.8	1698.8	1668.8	1646.3
162.5°	1819.8	1829.1	1819.8	1810.6	1808.2	1776.7	1734.8	1713.8	1703.0	1681.2	1664.9
165°	1793.7	1803.6	1793.7	1783.8	1781.4	1758.9	1728.8	1713.8	1708.8	1699.0	1691.7
167.5°	1775.0	1779.1	1775.0	1770.8	1769.7	1755.0	1735.3	1725.5	1721.4	1713.0	1706.9
170°	1769.7	1769.7	1769.7	1769.7	1769.7	1755.0	1735.3	1725.5	1725.2	1724.7	1724.4
172.5°	1755.9	1752.3	1755.9	1759.5	1760.4	1748.7	1733.2	1725.5	1725.5	1725.5	1725.5
175°	1747.6	1747.6	1747.6	1747.6	1747.6	1740.2	1730.4	1725.5	1727.8	1732.5	1735.9
177.5°	1740.0	1735.9	1740.0	1744.2	1745.3	1739.5	1731.7	1727.8	1729.6	1733.2	1735.9
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1343.0	1335.4	1335.4	1322.9	1318.0	1314.1	1307.9	1289.1	1284.1	1279.1	1286.6
5°	1354.3	1340.5	1330.5	1307.9	1289.1	1281.6	1257.8	1212.7	1182.6	1160.0	1147.5
7.5°	1356.7	1339.3	1320.4	1285.4	1240.3	1220.2	1147.5	1064.9	1042.3	1022.3	1009.7
10°	1354.3	1334.2	1307.9	1255.3	1148.8	1113.7	1041.0	987.1	973.4	969.7	973.4
12.5°	1345.5	1326.7	1290.3	1202.7	1053.6	1029.8	987.1	955.9	953.3	959.6	993.5
15°	1330.5	1312.9	1270.3	1132.5	1001.0	983.4	953.3	942.1	955.9	999.8	1101.2
17.5°	1315.4	1295.4	1242.8	1063.6	960.9	948.4	927.1	949.6	1027.3	1086.1	1120.0
20°	1295.4	1271.5	1211.4	1013.5	932.0	920.8	910.7	1012.3	1071.1	1092.4	1111.2
22.5°	1271.5	1246.5	1168.8	978.5	902.0	893.3	899.5	1047.3	1071.1	1086.1	1102.4
25°	1240.3	1219.0	1118.7	950.9	878.2	868.2	892.0	1043.6	1057.4	1061.1	1093.7
27.5°	1211.4	1183.8	1066.2	925.8	849.4	845.6	898.2	1027.3	1037.3	1041.0	1076.2
30°	1176.4	1135.0	1007.2	899.5	819.3	818.1	899.5	1007.2	1004.7	1014.8	1049.8
32.5°	1140.0	1062.3	940.8	866.9	790.5	789.2	890.8	977.2	974.6	988.5	1014.8
35°	1106.2	1006.0	850.6	829.3	754.2	755.4	869.5	942.1	943.3	955.9	972.2
37.5°	1071.1	957.2	751.7	788.0	719.1	719.1	840.6	909.5	907.0	910.7	933.3
40°	1029.8	880.7	664.0	734.1	686.5	682.8	805.6	874.4	865.6	864.4	895.7
42.5°	985.9	796.8	598.8	662.8	648.9	643.9	763.0	831.8	815.6	819.3	859.4
45°	938.3	774.2	548.7	560.0	610.1	606.4	716.6	783.0	771.7	781.8	823.0
47.5°	890.8	729.1	532.5	464.8	568.8	567.5	665.2	735.3	729.1	739.2	783.0
50°	825.6	679.0	531.2	398.4	522.4	527.4	603.8	689.0	689.0	697.8	744.1
52.5°	741.7	617.7	482.3	360.8	468.5	483.5	549.9	648.9	651.5	660.2	701.5
55°	665.2	553.8	447.2	331.9	404.6	437.2	497.4	607.6	612.6	621.4	658.9
57.5°	595.1	461.0	439.7	298.1	345.8	377.1	451.0	567.5	570.0	577.5	613.8
60°	519.9	333.3	403.4	261.8	294.4	318.2	408.4	519.9	528.6	533.7	565.0
62.5°	434.7	241.8	365.8	236.8	269.4	274.3	373.3	474.8	486.1	489.9	508.7
65°	309.4	203.0	310.6	215.5	243.0	244.3	335.8	428.4	438.5	444.8	458.5
67.5°	209.2	165.4	236.8	195.4	223.0	224.3	299.4	374.6	388.4	393.4	402.2
70°	145.3	110.2	175.4	174.1	200.4	203.0	260.6	325.7	338.3	342.0	347.0
72.5°	106.5	88.9	145.3	156.6	176.6	179.1	220.5	270.6	283.1	286.9	289.4
75°	81.4	94.0	117.8	136.6	150.4	151.6	180.4	220.5	229.3	231.7	233.0
77.5°	65.1	87.7	86.5	110.2	122.7	120.3	141.6	170.4	177.9	177.9	177.9
80°	48.8	68.9	65.1	78.9	90.2	87.7	101.4	121.5	124.0	126.6	125.2
82.5°	36.3	43.8	43.8	50.2	60.1	57.6	67.6	78.9	78.9	78.9	81.4
85°	22.5	25.0	20.1	26.3	33.8	32.6	37.5	42.6	43.8	43.8	41.4
87.5°	13.8	11.3	6.3	10.0	15.0	15.0	17.6	18.8	17.6	17.6	17.6
90°	30.3	21.0	11.7	21.0	30.3	32.6	51.3	76.1	88.5	78.7	59.0
92.5°	205.1	125.8	46.6	125.8	205.1	224.9	316.2	437.9	498.7	437.0	313.8
95°	401.8	256.8	111.9	256.8	401.8	438.0	777.8	1230.9	1457.5	1300.6	986.9
97.5°	449.3	321.3	193.4	321.3	449.3	481.2	1047.9	1803.4	2181.1	2081.9	1883.6
100°	488.3	372.3	256.3	372.3	488.3	517.3	1146.1	1984.4	2403.6	2410.8	2425.3
102.5°	526.3	418.2	309.9	418.2	526.3	553.4	1191.1	2041.4	2466.5	2592.9	2845.5
105°	584.1	492.4	400.8	492.4	584.1	607.0	1224.5	2047.8	2459.5	2742.8	3309.3
107.5°	664.8	579.5	494.0	579.5	664.8	686.2	1230.7	1956.7	2319.7	2714.8	3505.0
110°	711.2	634.1	556.9	634.1	711.2	730.5	1221.4	1875.9	2203.2	2644.9	3528.3



TEST NUMBER: P935896

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	765.7	692.2	618.7	692.2	765.7	784.1	1221.8	1805.3	2097.1	2549.2	3453.3
115°	847.5	779.7	711.9	779.7	847.5	864.5	1233.1	1724.4	1970.2	2405.6	3276.6
117.5°	927.2	865.5	803.9	865.5	927.2	942.6	1255.9	1673.8	1882.8	2275.8	3061.8
120°	973.5	915.5	857.5	915.5	973.5	988.0	1274.6	1656.7	1847.8	2206.9	2925.2
122.5°	1026.9	968.5	909.9	968.5	1026.9	1041.6	1301.4	1647.9	1821.0	2144.4	2791.2
125°	1097.0	1043.7	990.3	1043.7	1097.0	1110.3	1337.5	1640.4	1791.9	2066.6	2615.9
127.5°	1163.3	1109.4	1055.6	1109.4	1163.3	1176.7	1373.6	1636.2	1767.4	2003.2	2475.0
130°	1206.5	1148.5	1090.5	1148.5	1206.5	1221.0	1400.1	1638.7	1758.1	1968.0	2388.1
132.5°	1242.7	1184.7	1126.7	1184.7	1242.7	1257.2	1421.5	1640.5	1749.9	1937.9	2313.8
135°	1285.9	1233.1	1180.2	1233.1	1285.9	1299.1	1444.7	1638.9	1735.9	1893.4	2208.3
137.5°	1339.5	1287.3	1235.0	1287.3	1339.5	1352.6	1479.6	1649.0	1733.7	1866.8	2132.9
140°	1376.7	1328.6	1280.4	1328.6	1376.7	1388.8	1501.0	1650.7	1725.5	1840.4	2070.4
142.5°	1404.5	1359.9	1315.4	1359.9	1404.5	1415.6	1518.9	1656.6	1725.5	1826.4	2028.4
145°	1446.7	1407.8	1369.0	1407.8	1446.7	1456.4	1542.2	1656.6	1713.8	1796.4	1961.6
147.5°	1498.2	1460.4	1422.6	1460.4	1498.2	1507.7	1576.4	1668.0	1713.8	1778.8	1908.7
150°	1525.9	1491.7	1457.5	1491.7	1525.9	1534.4	1594.2	1673.9	1713.8	1768.7	1878.5
152.5°	1545.5	1519.5	1493.7	1519.5	1545.5	1551.9	1605.9	1677.8	1713.8	1760.7	1854.4
155°	1585.6	1566.4	1547.3	1566.4	1585.6	1590.3	1631.5	1686.3	1713.8	1751.1	1825.7
157.5°	1624.1	1605.5	1586.9	1605.5	1624.1	1628.8	1657.1	1694.9	1713.8	1742.8	1800.8
160°	1642.6	1628.1	1613.7	1628.1	1642.6	1646.3	1668.8	1698.8	1713.8	1738.6	1788.4
162.5°	1662.2	1651.3	1640.5	1651.3	1662.2	1664.9	1681.2	1703.0	1713.8	1734.8	1776.7
165°	1689.2	1679.3	1669.5	1679.3	1689.2	1691.7	1699.0	1708.8	1713.8	1728.8	1758.9
167.5°	1705.7	1701.0	1696.3	1701.0	1705.7	1706.9	1713.0	1721.4	1725.5	1735.3	1755.0
170°	1723.1	1718.5	1713.8	1718.5	1723.1	1724.4	1724.7	1725.2	1725.5	1735.3	1755.0
172.5°	1725.2	1724.2	1723.1	1724.2	1725.2	1725.5	1725.5	1725.5	1725.5	1733.2	1748.7
175°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1732.5	1727.8	1725.5	1730.4	1740.2
177.5°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1733.2	1729.6	1727.8	1731.7	1739.5
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



TEST NUMBER: P935896

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1277.8	1274.1	1279.1	1265.3	1279.1	1274.1	1277.8	1286.6	1279.1	1284.1	1289.1
5°	1121.3	1115.0	1094.9	1078.7	1094.9	1115.0	1121.3	1147.5	1160.0	1182.6	1212.7
7.5°	1002.2	997.2	992.2	982.2	992.2	997.2	1002.2	1009.7	1022.3	1042.3	1064.9
10°	975.9	977.2	984.7	983.4	984.7	977.2	975.9	973.4	969.7	973.4	987.1
12.5°	1043.6	1054.9	1096.1	1093.7	1096.1	1054.9	1043.6	993.5	959.6	953.3	955.9
15°	1121.3	1125.0	1133.8	1135.0	1133.8	1125.0	1121.3	1101.2	999.8	955.9	942.1
17.5°	1128.7	1130.0	1136.3	1136.3	1136.3	1130.0	1128.7	1120.0	1086.1	1027.3	949.6
20°	1122.5	1125.0	1137.5	1140.0	1137.5	1125.0	1122.5	1111.2	1092.4	1071.1	1012.3
22.5°	1120.0	1125.0	1135.0	1133.8	1135.0	1125.0	1120.0	1102.4	1086.1	1071.1	1047.3
25°	1107.4	1107.4	1108.8	1110.0	1108.8	1107.4	1107.4	1093.7	1061.1	1057.4	1043.6
27.5°	1081.1	1083.6	1091.2	1089.9	1091.2	1083.6	1081.1	1076.2	1041.0	1037.3	1027.3
30°	1057.4	1054.9	1048.6	1043.6	1048.6	1054.9	1057.4	1049.8	1014.8	1004.7	1007.2
32.5°	1017.2	1011.0	1004.7	1001.0	1004.7	1011.0	1017.2	1014.8	988.5	974.6	977.2
35°	969.7	970.9	969.7	965.8	969.7	970.9	969.7	972.2	955.9	943.3	942.1
37.5°	935.9	938.3	937.1	932.0	937.1	938.3	935.9	933.3	910.7	907.0	909.5
40°	900.7	902.0	900.7	897.0	900.7	902.0	900.7	895.7	864.4	865.6	874.4
42.5°	866.9	865.6	861.9	859.4	861.9	865.6	866.9	859.4	819.3	815.6	831.8
45°	828.1	829.3	821.8	818.1	821.8	829.3	828.1	823.0	781.8	771.7	783.0
47.5°	789.2	789.2	783.0	779.2	783.0	789.2	789.2	783.0	739.2	729.1	735.3
50°	747.9	746.6	737.9	736.6	737.9	746.6	747.9	744.1	697.8	689.0	689.0
52.5°	700.3	700.3	701.5	704.0	701.5	700.3	700.3	701.5	660.2	651.5	648.9
55°	658.9	660.2	669.0	671.5	669.0	660.2	658.9	658.9	621.4	612.6	607.6
57.5°	616.3	616.3	622.6	622.6	622.6	616.3	616.3	613.8	577.5	570.0	567.5
60°	567.5	570.0	575.1	573.8	575.1	570.0	567.5	565.0	533.7	528.6	519.9
62.5°	516.1	518.7	519.9	517.4	519.9	518.7	516.1	508.7	489.9	486.1	474.8
65°	462.2	464.8	466.1	463.5	466.1	464.8	462.2	458.5	444.8	438.5	428.4
67.5°	407.1	405.9	404.6	409.7	404.6	405.9	407.1	402.2	393.4	388.4	374.6
70°	350.8	350.8	349.5	352.0	349.5	350.8	350.8	347.0	342.0	338.3	325.7
72.5°	290.7	289.4	294.4	290.7	294.4	289.4	290.7	289.4	286.9	283.1	270.6
75°	231.7	234.2	231.7	235.6	231.7	234.2	231.7	233.0	231.7	229.3	220.5
77.5°	176.6	179.1	176.6	176.6	176.6	179.1	176.6	177.9	177.9	177.9	170.4
80°	125.2	124.0	124.0	122.7	124.0	124.0	125.2	125.2	126.6	124.0	121.5
82.5°	80.1	78.9	78.9	81.4	78.9	78.9	80.1	81.4	78.9	78.9	78.9
85°	43.8	45.1	42.6	42.6	42.6	45.1	43.8	41.4	43.8	43.8	42.6
87.5°	16.3	15.0	15.0	15.0	15.0	15.0	16.3	17.6	17.6	17.6	18.8
90°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	59.0	78.7	88.5	76.1
92.5°	221.4	212.6	177.4	142.2	177.4	212.6	221.4	313.8	437.0	498.7	437.9
95°	751.5	724.8	618.1	511.5	618.1	724.8	751.5	986.9	1300.6	1457.5	1230.9
97.5°	1734.8	1684.1	1481.0	1278.1	1481.0	1684.1	1734.8	1883.6	2081.9	2181.1	1803.4
100°	2436.2	2375.7	2133.9	1892.1	2133.9	2375.7	2436.2	2425.3	2410.8	2403.6	1984.4
102.5°	3035.0	2983.3	2776.1	2569.1	2776.1	2983.3	3035.0	2845.5	2592.9	2466.5	2041.4
105°	3734.1	3706.3	3595.0	3483.6	3595.0	3706.3	3734.1	3309.3	2742.8	2459.5	2047.8
107.5°	4097.6	4104.4	4131.3	4158.2	4131.3	4104.4	4097.6	3505.0	2714.8	2319.7	1956.7
110°	4190.9	4219.8	4335.8	4451.8	4335.8	4219.8	4190.9	3528.3	2644.9	2203.2	1875.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4131.4	4175.9	4354.0	4532.1	4354.0	4175.9	4131.4	3453.3	2549.2	2097.1	1805.3
115°	3929.8	3991.5	4238.6	4485.5	4238.6	3991.5	3929.8	3276.6	2405.6	1970.2	1724.4
117.5°	3651.4	3719.8	3993.8	4267.7	3993.8	3719.8	3651.4	3061.8	2275.8	1882.8	1673.8
120°	3463.8	3530.3	3796.5	4062.6	3796.5	3530.3	3463.8	2925.2	2206.9	1847.8	1656.7
122.5°	3276.2	3341.9	3604.4	3866.9	3604.4	3341.9	3276.2	2791.2	2144.4	1821.0	1647.9
125°	3028.0	3088.5	3330.4	3572.2	3330.4	3088.5	3028.0	2615.9	2066.6	1791.9	1640.4
127.5°	2828.8	2879.8	3083.9	3287.9	3083.9	2879.8	2828.8	2475.0	2003.2	1767.4	1636.2
130°	2703.0	2750.2	2938.6	3127.1	2938.6	2750.2	2703.0	2388.1	1968.0	1758.1	1638.7
132.5°	2595.8	2638.0	2806.8	2975.6	2806.8	2638.0	2595.8	2313.8	1937.9	1749.9	1640.5
135°	2444.4	2480.7	2626.2	2771.7	2626.2	2480.7	2444.4	2208.3	1893.4	1735.9	1638.9
137.5°	2332.5	2362.3	2481.4	2600.4	2481.4	2362.3	2332.5	2132.9	1866.8	1733.7	1649.0
140°	2242.8	2270.6	2382.0	2493.3	2382.0	2270.6	2242.8	2070.4	1840.4	1725.5	1650.7
142.5°	2179.9	2203.8	2299.6	2395.4	2299.6	2203.8	2179.9	2028.4	1826.4	1725.5	1656.6
145°	2085.5	2103.6	2176.1	2248.6	2176.1	2103.6	2085.5	1961.6	1796.4	1713.8	1656.6
147.5°	2006.2	2021.3	2081.3	2141.4	2081.3	2021.3	2006.2	1908.7	1778.8	1713.8	1668.0
150°	1960.8	1973.0	2021.7	2070.4	2021.7	1973.0	1960.8	1878.5	1768.7	1713.8	1673.9
152.5°	1924.7	1933.8	1970.6	2007.4	1970.6	1933.8	1924.7	1854.4	1760.7	1713.8	1677.8
155°	1881.6	1887.7	1912.1	1936.4	1912.1	1887.7	1881.6	1825.7	1751.1	1713.8	1686.3
157.5°	1844.4	1848.7	1865.7	1882.8	1865.7	1848.7	1844.4	1800.8	1742.8	1713.8	1694.9
160°	1825.7	1828.1	1838.0	1847.8	1838.0	1828.1	1825.7	1788.4	1738.6	1713.8	1698.8
162.5°	1808.2	1810.6	1819.8	1829.1	1819.8	1810.6	1808.2	1776.7	1734.8	1713.8	1703.0
165°	1781.4	1783.8	1793.7	1803.6	1793.7	1783.8	1781.4	1758.9	1728.8	1713.8	1708.8
167.5°	1769.7	1770.8	1775.0	1779.1	1775.0	1770.8	1769.7	1755.0	1735.3	1725.5	1721.4
170°	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1755.0	1735.3	1725.5	1725.2
172.5°	1760.4	1759.5	1755.9	1752.3	1755.9	1759.5	1760.4	1748.7	1733.2	1725.5	1725.5
175°	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1740.2	1730.4	1725.5	1727.8
177.5°	1745.3	1744.2	1740.0	1735.9	1740.0	1744.2	1745.3	1739.5	1731.7	1727.8	1729.6
180°	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1307.9	1314.1	1318.0	1322.9	1335.4
5°	1257.8	1281.6	1289.1	1307.9	1330.5
7.5°	1147.5	1220.2	1240.3	1285.4	1320.4
10°	1041.0	1113.7	1148.8	1255.3	1307.9
12.5°	987.1	1029.8	1053.6	1202.7	1290.3
15°	953.3	983.4	1001.0	1132.5	1270.3
17.5°	927.1	948.4	960.9	1063.6	1242.8
20°	910.7	920.8	932.0	1013.5	1211.4
22.5°	899.5	893.3	902.0	978.5	1168.8
25°	892.0	868.2	878.2	950.9	1118.7
27.5°	898.2	845.6	849.4	925.8	1066.2
30°	899.5	818.1	819.3	899.5	1007.2
32.5°	890.8	789.2	790.5	866.9	940.8
35°	869.5	755.4	754.2	829.3	850.6
37.5°	840.6	719.1	719.1	788.0	751.7
40°	805.6	682.8	686.5	734.1	664.0
42.5°	763.0	643.9	648.9	662.8	598.8
45°	716.6	606.4	610.1	560.0	548.7
47.5°	665.2	567.5	568.8	464.8	532.5
50°	603.8	527.4	522.4	398.4	531.2
52.5°	549.9	483.5	468.5	360.8	482.3
55°	497.4	437.2	404.6	331.9	447.2
57.5°	451.0	377.1	345.8	298.1	439.7
60°	408.4	318.2	294.4	261.8	403.4
62.5°	373.3	274.3	269.4	236.8	365.8
65°	335.8	244.3	243.0	215.5	310.6
67.5°	299.4	224.3	223.0	195.4	236.8
70°	260.6	203.0	200.4	174.1	175.4
72.5°	220.5	179.1	176.6	156.6	145.3
75°	180.4	151.6	150.4	136.6	117.8
77.5°	141.6	120.3	122.7	110.2	86.5
80°	101.4	87.7	90.2	78.9	65.1
82.5°	67.6	57.6	60.1	50.2	43.8
85°	37.5	32.6	33.8	26.3	20.1
87.5°	17.6	15.0	15.0	10.0	6.3
90°	51.3	32.6	30.3	21.0	11.7
92.5°	316.2	224.9	205.1	125.8	46.6
95°	777.8	438.0	401.8	256.8	111.9
97.5°	1047.9	481.2	449.3	321.3	193.4
100°	1146.1	517.3	488.3	372.3	256.3
102.5°	1191.1	553.4	526.3	418.2	309.9
105°	1224.5	607.0	584.1	492.4	400.8
107.5°	1230.7	686.2	664.8	579.5	494.0
110°	1221.4	730.5	711.2	634.1	556.9



TEST NUMBER: P935896

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1221.8	784.1	765.7	692.2	618.7
115°	1233.1	864.5	847.5	779.7	711.9
117.5°	1255.9	942.6	927.2	865.5	803.9
120°	1274.6	988.0	973.5	915.5	857.5
122.5°	1301.4	1041.6	1026.9	968.5	909.9
125°	1337.5	1110.3	1097.0	1043.7	990.3
127.5°	1373.6	1176.7	1163.3	1109.4	1055.6
130°	1400.1	1221.0	1206.5	1148.5	1090.5
132.5°	1421.5	1257.2	1242.7	1184.7	1126.7
135°	1444.7	1299.1	1285.9	1233.1	1180.2
137.5°	1479.6	1352.6	1339.5	1287.3	1235.0
140°	1501.0	1388.8	1376.7	1328.6	1280.4
142.5°	1518.9	1415.6	1404.5	1359.9	1315.4
145°	1542.2	1456.4	1446.7	1407.8	1369.0
147.5°	1576.4	1507.7	1498.2	1460.4	1422.6
150°	1594.2	1534.4	1525.9	1491.7	1457.5
152.5°	1605.9	1551.9	1545.5	1519.5	1493.7
155°	1631.5	1590.3	1585.6	1566.4	1547.3
157.5°	1657.1	1628.8	1624.1	1605.5	1586.9
160°	1668.8	1646.3	1642.6	1628.1	1613.7
162.5°	1681.2	1664.9	1662.2	1651.3	1640.5
165°	1699.0	1691.7	1689.2	1679.3	1669.5
167.5°	1713.0	1706.9	1705.7	1701.0	1696.3
170°	1724.7	1724.4	1723.1	1718.5	1713.8
172.5°	1725.5	1725.5	1725.2	1724.2	1723.1
175°	1732.5	1735.9	1735.9	1735.9	1735.9
177.5°	1733.2	1735.9	1735.9	1735.9	1735.9
180°	1735.9	1735.9	1735.9	1735.9	1735.9



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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	7.91	8.57	9.06	9.71	11.32	10.74	11.41	11.90	12.55	14.16
	3H	8.37	8.96	9.53	10.11	11.73	12.08	12.67	13.24	13.82	15.44
	4H	8.55	9.11	9.72	10.26	11.89	12.51	13.08	13.68	14.23	15.85
	6H	8.66	9.18	9.84	10.33	11.97	12.79	13.31	13.97	14.46	16.10
	8H	8.65	9.15	9.83	10.31	11.94	12.86	13.35	14.04	14.52	16.15
	12H	8.62	9.09	9.80	10.25	11.90	12.89	13.36	14.08	14.52	16.17
4H	2H	8.91	9.48	10.10	10.63	12.26	11.13	11.69	12.31	12.84	14.47
	3H	9.92	10.39	11.11	11.57	13.21	12.62	13.09	13.80	14.26	15.90
	4H	10.19	10.62	11.38	11.79	13.45	13.14	13.57	14.32	14.74	16.39
	6H	10.30	10.68	11.49	11.86	13.51	13.49	13.86	14.68	15.05	16.70
	8H	10.31	10.65	11.49	11.83	13.49	13.60	13.94	14.79	15.12	16.78
	12H	10.26	10.58	11.47	11.77	13.43	13.64	13.96	14.85	15.15	16.82
8H	4H	10.63	10.98	11.82	12.15	13.82	13.25	13.59	14.43	14.77	16.43
	6H	10.88	11.17	12.09	12.39	14.05	13.68	13.96	14.88	15.18	16.84
	8H	10.92	11.17	12.14	12.37	14.05	13.83	14.08	15.04	15.27	16.95
	12H	10.90	11.12	12.12	12.31	14.02	13.92	14.14	15.13	15.33	17.04
12H	4H	10.63	10.94	11.83	12.13	13.80	13.20	13.51	14.41	14.70	16.37
	6H	10.94	11.19	12.16	12.39	14.07	13.67	13.92	14.88	15.12	16.80
	8H	11.00	11.22	12.22	12.41	14.12	13.82	14.04	15.04	15.24	16.95