

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: P935137

Luminaire Tested: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935137
REPORT IS A COMBINATION OF REPORTS P933743 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

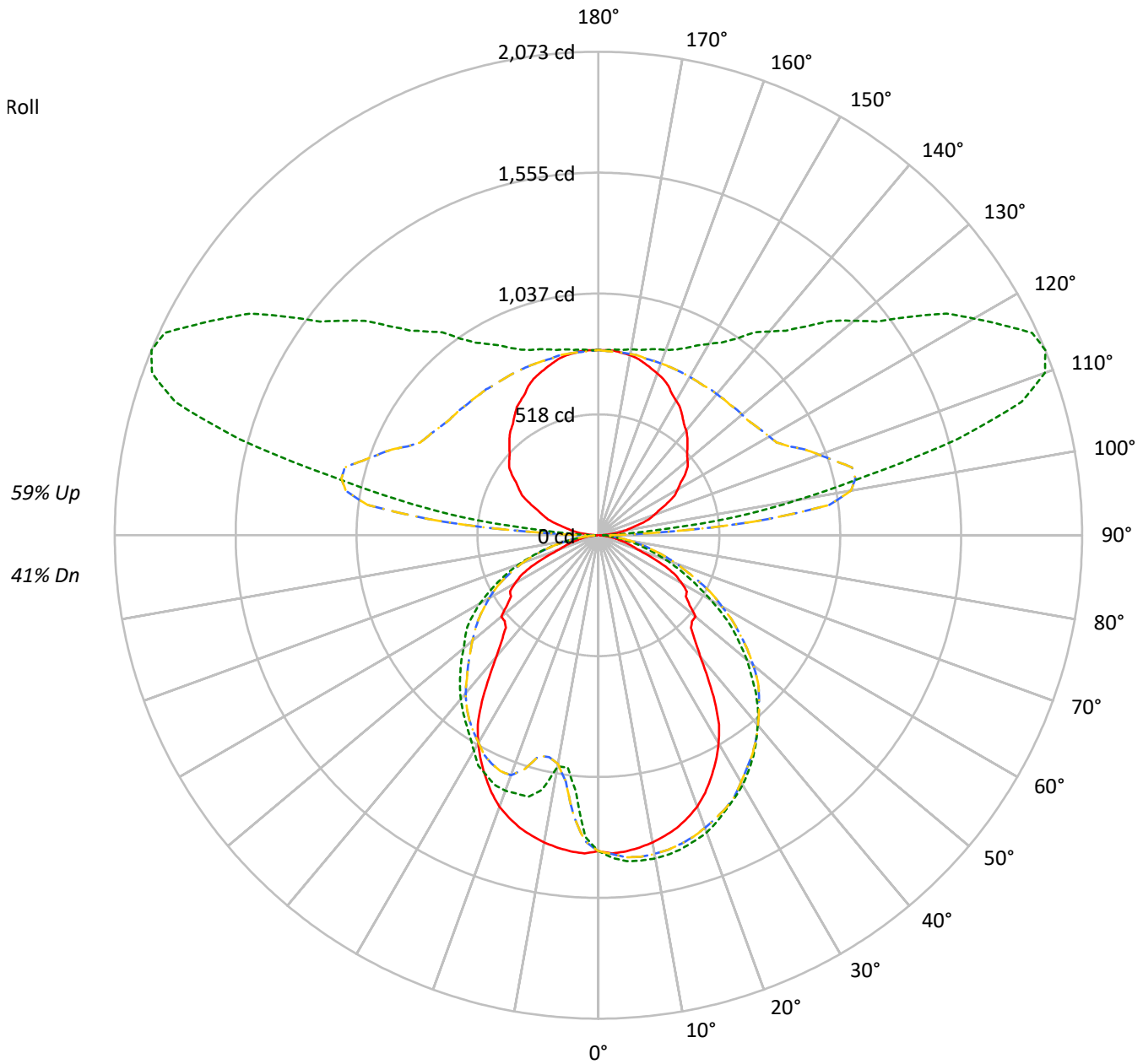
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8661.7 lumens
Efficiency: N/A
Efficacy: 117.4 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: General Diffuse

Input Watts (W): 73.8
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	50	30	10	0
RCR																					
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8377	8377	8377	8377
5°	8437	8457	8437	6649
10°	8378	8330	8378	5955
15°	8283	8150	8283	6805
20°	8107	7936	8107	6819
25°	7749	7624	7749	6675
30°	7288	7365	7288	6357
35°	6494	7038	6494	6009
40°	5408	6652	5408	5745
45°	4829	6201	4829	5442
50°	5126	5663	5126	5138
55°	4818	5083	4818	4962
60°	4960	4317	4960	4545
65°	4490	3569	4490	3989
70°	3103	2844	3103	3344
75°	2709	2102	2709	2518
80°	2168	1390	2168	1514
85°	1222	735	1222	626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.4
10°-20°	347.1	4.0
20°-30°	536.5	6.2
30°-40°	640.5	7.4
40°-50°	644.2	7.4
50°-60°	560.6	6.5
60°-70°	397.5	4.6
70°-80°	210.3	2.4
80°-90°	55.4	0.6
90°-100°	387.0	4.5
100°-110°	1017.6	11.7
110°-120°	1055.1	12.2
120°-130°	846.3	9.8
130°-140°	664.1	7.7
140°-150°	509.7	5.9
150°-160°	367.1	4.2
160°-170°	224.6	2.6
170°-180°	75.9	0.9
0°-30°	1005.8	11.6
0°-40°	1646.3	19.0
0°-60°	2851.2	32.9
0°-90°	3514.3	40.6
90°-120°	2459.7	28.4
90°-150°	4479.8	51.7
90°-180°	5147.0	59.4
0°-180°	8661.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1354	1354	1354	1354	1354	
5°	1361	1403	1361	1103	1361	129
15°	1299	1390	1299	1161	1299	366
25°	1144	1297	1144	1135	1144	525
35°	870	1157	870	988	870	538
45°	561	953	561	837	561	450
55°	457	703	457	687	457	420
65°	318	424	318	474	318	304
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	5	20	5	20	5	5
95°	51	234	51	234	51	57
105°	183	1593	183	1593	183	194
115°	326	2052	326	2052	326	322
125°	453	1634	453	1634	453	402
135°	540	1268	540	1268	540	418
145°	626	1028	626	1028	626	392
155°	708	886	708	886	708	325
165°	764	825	764	825	764	216
175°	794	799	794	799	794	75
180°	794	794	794	794	794	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1365.8	1365.8	1373.4	1376.0	1376.0	1372.2	1368.3	1372.2	1383.7	1387.5	1386.2
5°	1360.6	1370.9	1385.0	1387.5	1390.1	1388.8	1386.2	1388.8	1401.6	1404.2	1405.5
7.5°	1350.4	1369.6	1387.5	1391.4	1395.2	1391.4	1390.1	1392.7	1405.5	1408.0	1408.0
10°	1337.6	1364.5	1385.0	1387.5	1391.4	1387.5	1387.5	1392.7	1405.5	1408.0	1409.3
12.5°	1319.6	1356.8	1376.0	1378.6	1383.7	1382.4	1381.1	1386.2	1399.1	1401.6	1401.6
15°	1299.1	1342.7	1360.6	1363.2	1372.2	1369.6	1369.6	1374.7	1388.8	1392.7	1391.4
17.5°	1270.9	1324.8	1345.3	1349.1	1355.5	1354.2	1355.5	1360.6	1373.4	1376.0	1377.3
20°	1238.9	1300.4	1324.8	1328.6	1335.0	1335.0	1335.0	1341.4	1354.2	1359.3	1359.3
22.5°	1195.4	1274.8	1300.4	1303.0	1310.7	1310.7	1313.2	1322.2	1333.7	1335.0	1335.0
25°	1144.1	1246.6	1268.4	1276.1	1283.8	1287.6	1291.4	1296.6	1300.4	1299.1	1300.4
27.5°	1090.3	1210.7	1238.9	1244.0	1254.3	1258.1	1263.3	1264.5	1265.8	1269.7	1267.1
30°	1030.1	1160.8	1203.0	1208.2	1224.8	1227.4	1222.3	1224.8	1231.2	1233.8	1236.4
32.5°	962.2	1086.5	1165.9	1177.4	1192.8	1185.1	1183.8	1187.7	1197.9	1197.9	1200.5
35°	869.9	1028.8	1131.3	1141.5	1153.1	1144.1	1149.2	1150.5	1156.9	1160.8	1159.5
37.5°	768.7	978.8	1095.4	1103.1	1112.1	1100.5	1108.2	1112.1	1117.2	1114.6	1114.6
40°	679.0	900.7	1053.1	1058.3	1066.0	1057.0	1064.7	1067.2	1069.8	1067.2	1066.0
42.5°	612.4	814.8	1008.3	1014.7	1009.6	1016.0	1018.5	1023.7	1019.8	1014.7	1014.7
45°	561.2	791.8	959.6	967.3	959.6	969.9	973.7	973.7	962.2	959.6	958.3
47.5°	544.5	745.7	910.9	910.9	907.1	919.9	926.3	917.3	905.8	902.0	902.0
50°	543.2	694.4	844.3	839.2	857.1	872.5	866.1	857.1	848.1	834.1	834.1
52.5°	493.3	631.6	758.5	777.7	805.9	814.8	804.6	795.6	780.2	773.8	768.7
55°	457.4	566.3	680.3	718.7	748.2	759.7	740.5	731.6	708.5	704.7	702.1
57.5°	449.7	471.5	608.6	657.3	693.1	691.8	680.3	663.7	644.4	640.6	639.3
60°	412.5	340.8	531.7	589.3	626.5	622.7	612.4	597.0	579.1	576.5	574.0
62.5°	374.1	247.3	444.6	509.9	562.4	561.2	552.2	529.1	516.3	509.9	504.8
65°	317.7	207.6	316.5	424.1	499.7	502.2	483.0	466.4	452.3	444.6	443.3
67.5°	242.1	169.1	214.0	353.6	439.4	436.9	412.5	404.9	386.9	383.1	375.4
70°	179.4	112.7	148.6	287.0	380.5	374.1	354.9	345.9	329.3	320.3	315.2
72.5°	148.6	91.0	108.9	222.9	320.3	312.6	296.0	285.7	271.6	263.9	258.8
75°	120.4	96.1	83.3	165.3	260.1	255.0	239.6	229.3	217.8	207.6	208.8
77.5°	88.4	89.7	66.6	121.7	206.3	198.6	189.6	176.8	171.7	161.4	161.4
80°	66.6	70.5	50.0	83.3	148.6	148.6	140.9	132.0	123.0	117.9	117.9
82.5°	44.8	44.8	37.2	52.5	101.2	97.4	92.2	89.7	84.6	82.0	82.0
85°	20.5	25.6	23.1	32.0	55.1	57.7	57.7	55.1	53.8	51.2	52.5
87.5°	6.4	11.5	14.1	17.9	28.2	29.5	30.7	30.7	30.7	32.0	32.0
90°	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0	20.2	20.2
92.5°	21.4	57.6	93.8	102.8	144.6	200.2	228.1	199.9	143.5	101.2	97.2
95°	51.2	117.4	183.8	200.4	355.8	563.0	666.6	594.9	451.3	343.7	331.5
97.5°	88.5	147.0	205.5	220.1	479.3	824.8	997.6	952.3	861.6	793.5	770.3
100°	117.3	170.3	223.4	236.6	524.2	907.6	1099.3	1102.7	1109.3	1114.3	1086.6
102.5°	141.8	191.3	240.8	253.2	544.8	933.7	1128.1	1186.0	1301.5	1388.2	1364.6
105°	183.3	225.2	267.2	277.7	560.1	936.7	1125.0	1254.5	1513.6	1707.9	1695.2
107.5°	225.9	265.0	304.2	313.9	563.0	895.0	1061.0	1241.7	1603.1	1874.2	1877.3
110°	254.7	290.0	325.3	334.1	558.7	858.1	1007.7	1209.7	1613.8	1916.8	1930.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	283.0	316.6	350.3	358.6	558.9	825.8	959.2	1166.0	1579.5	1889.7	1910.0
115°	325.6	356.6	387.6	395.4	564.0	788.7	901.1	1100.3	1498.7	1797.5	1825.8
117.5°	367.7	395.9	424.1	431.1	574.4	765.6	861.1	1040.9	1400.4	1670.1	1701.4
120°	392.2	418.8	445.3	451.9	583.0	757.8	845.2	1009.4	1337.9	1584.3	1614.7
122.5°	416.2	443.0	469.8	476.4	595.2	753.7	832.9	980.9	1276.7	1498.5	1528.5
125°	452.9	477.4	501.8	507.9	611.8	750.4	819.6	945.3	1196.5	1385.1	1412.7
127.5°	482.8	507.4	532.1	538.3	628.3	748.4	808.4	916.3	1132.1	1293.9	1317.2
130°	498.8	525.4	551.9	558.5	640.4	749.6	804.2	900.2	1092.3	1236.4	1257.9
132.5°	515.3	541.9	568.3	575.0	650.2	750.4	800.4	886.4	1058.4	1187.3	1206.6
135°	539.8	564.0	588.2	594.2	660.8	749.6	794.0	866.0	1010.0	1118.1	1134.7
137.5°	564.8	588.8	612.8	618.7	676.8	754.3	793.0	853.9	975.6	1066.9	1080.5
140°	585.7	607.7	629.7	635.2	686.5	755.0	789.2	841.8	947.0	1025.8	1038.5
142.5°	601.6	622.1	642.4	647.5	694.7	757.7	789.2	835.4	927.8	997.0	1008.0
145°	626.2	643.9	661.7	666.1	705.4	757.8	783.9	821.7	897.3	953.9	962.2
147.5°	650.7	667.9	685.2	689.5	721.0	762.9	783.9	813.6	873.1	917.7	924.5
150°	666.6	682.3	697.9	701.8	729.2	765.6	783.9	809.0	859.2	896.8	902.4
152.5°	683.2	695.1	706.9	709.9	734.6	767.4	783.9	805.4	848.2	880.3	884.5
155°	707.7	716.4	725.2	727.4	746.3	771.4	783.9	801.0	835.1	860.6	863.4
157.5°	725.8	734.4	742.8	745.0	758.0	775.3	783.9	797.2	823.7	843.6	845.6
160°	738.1	744.7	751.4	753.0	763.3	777.1	783.9	795.3	818.0	835.1	836.2
162.5°	750.4	755.3	760.3	761.5	769.0	779.0	783.9	793.5	812.7	827.1	828.1
165°	763.7	768.1	772.6	773.8	777.2	781.7	783.9	790.8	804.5	814.8	815.9
167.5°	775.9	778.0	780.2	780.7	783.5	787.3	789.2	793.7	802.7	809.5	810.0
170°	783.9	786.1	788.2	788.7	788.9	789.1	789.2	793.7	802.7	809.5	809.5
172.5°	788.2	788.6	789.1	789.2	789.2	789.2	789.2	792.8	799.9	805.2	804.8
175°	794.0	794.0	794.0	794.0	792.4	790.2	789.2	791.4	796.0	799.4	799.4
177.5°	794.0	794.0	794.0	794.0	792.8	791.2	790.3	792.1	795.6	798.3	797.8
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1388.8	1385.0	1388.8	1386.2	1387.5	1383.7	1372.2	1368.3	1372.2	1376.0	1376.0
5°	1405.5	1402.9	1405.5	1405.5	1404.2	1401.6	1388.8	1386.2	1388.8	1390.1	1387.5
7.5°	1410.6	1406.7	1410.6	1408.0	1408.0	1405.5	1392.7	1390.1	1391.4	1395.2	1391.4
10°	1410.6	1406.7	1410.6	1409.3	1408.0	1405.5	1392.7	1387.5	1387.5	1391.4	1387.5
12.5°	1404.2	1401.6	1404.2	1401.6	1401.6	1399.1	1386.2	1381.1	1382.4	1383.7	1378.6
15°	1393.9	1390.1	1393.9	1391.4	1392.7	1388.8	1374.7	1369.6	1369.6	1372.2	1363.2
17.5°	1378.6	1373.4	1378.6	1377.3	1376.0	1373.4	1360.6	1355.5	1354.2	1355.5	1349.1
20°	1360.6	1356.8	1360.6	1359.3	1359.3	1354.2	1341.4	1335.0	1335.0	1335.0	1328.6
22.5°	1332.4	1328.6	1332.4	1335.0	1335.0	1333.7	1322.2	1313.2	1310.7	1310.7	1303.0
25°	1300.4	1296.6	1300.4	1300.4	1299.1	1300.4	1296.6	1291.4	1287.6	1283.8	1276.1
27.5°	1269.7	1267.1	1269.7	1267.1	1269.7	1265.8	1264.5	1263.3	1258.1	1254.3	1244.0
30°	1238.9	1236.4	1238.9	1236.4	1233.8	1231.2	1224.8	1222.3	1227.4	1224.8	1208.2
32.5°	1200.5	1197.9	1200.5	1200.5	1197.9	1197.9	1187.7	1183.8	1185.1	1192.8	1177.4
35°	1160.8	1156.9	1160.8	1159.5	1160.8	1156.9	1150.5	1149.2	1144.1	1153.1	1141.5
37.5°	1114.6	1110.8	1114.6	1114.6	1114.6	1117.2	1112.1	1108.2	1100.5	1112.1	1103.1
40°	1067.2	1062.1	1067.2	1066.0	1067.2	1069.8	1067.2	1064.7	1057.0	1066.0	1058.3
42.5°	1013.4	1012.1	1013.4	1014.7	1014.7	1019.8	1023.7	1018.5	1016.0	1009.6	1014.7
45°	955.8	953.2	955.8	958.3	959.6	962.2	973.7	973.7	969.9	959.6	967.3
47.5°	894.3	887.9	894.3	902.0	902.0	905.8	917.3	926.3	919.9	907.1	910.9
50°	828.9	830.2	828.9	834.1	834.1	848.1	857.1	866.1	872.5	857.1	839.2
52.5°	764.9	763.6	764.9	768.7	773.8	780.2	795.6	804.6	814.8	805.9	777.7
55°	700.8	703.4	700.8	702.1	704.7	708.5	731.6	740.5	759.7	748.2	718.7
57.5°	636.8	632.9	636.8	639.3	640.6	644.4	663.7	680.3	691.8	693.1	657.3
60°	562.4	557.3	562.4	574.0	576.5	579.1	597.0	612.4	622.7	626.5	589.3
62.5°	497.1	488.1	497.1	504.8	509.9	516.3	529.1	552.2	561.2	562.4	509.9
65°	427.9	424.1	427.9	443.3	444.6	452.3	466.4	483.0	502.2	499.7	424.1
67.5°	365.1	365.1	365.1	375.4	383.1	386.9	404.9	412.5	436.9	439.4	353.6
70°	307.5	306.2	307.5	315.2	320.3	329.3	345.9	354.9	374.1	380.5	287.0
72.5°	252.4	251.1	252.4	258.8	263.9	271.6	285.7	296.0	312.6	320.3	222.9
75°	203.7	201.1	203.7	208.8	207.6	217.8	229.3	239.6	255.0	260.1	165.3
77.5°	156.3	156.3	156.3	161.4	161.4	171.7	176.8	189.6	198.6	206.3	121.7
80°	116.6	115.3	116.6	117.9	117.9	123.0	132.0	140.9	148.6	148.6	83.3
82.5°	82.0	79.4	82.0	82.0	82.0	84.6	89.7	92.2	97.4	101.2	52.5
85°	51.2	51.2	51.2	52.5	51.2	53.8	55.1	57.7	57.7	55.1	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.7	30.7	30.7	29.5	28.2	17.9
90°	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8	23.5	14.9
92.5°	81.1	65.0	81.1	97.2	101.2	143.5	199.9	228.1	200.2	144.6	102.8
95°	282.7	233.9	282.7	331.5	343.7	451.3	594.9	666.6	563.0	355.8	200.4
97.5°	677.4	584.6	677.4	770.3	793.5	861.6	952.3	997.6	824.8	479.3	220.1
100°	976.0	865.4	976.0	1086.6	1114.3	1109.3	1102.7	1099.3	907.6	524.2	236.6
102.5°	1269.7	1175.0	1269.7	1364.6	1388.2	1301.5	1186.0	1128.1	933.7	544.8	253.2
105°	1644.3	1593.4	1644.3	1695.2	1707.9	1513.6	1254.5	1125.0	936.7	560.1	277.7
107.5°	1889.7	1902.0	1889.7	1877.3	1874.2	1603.1	1241.7	1061.0	895.0	563.0	313.9
110°	1983.2	2036.2	1983.2	1930.1	1916.8	1613.8	1209.7	1007.7	858.1	558.7	334.1



TEST NUMBER: P935137

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1991.5	2073.0	1991.5	1910.0	1889.7	1579.5	1166.0	959.2	825.8	558.9	358.6
115°	1938.7	2051.7	1938.7	1825.8	1797.5	1498.7	1100.3	901.1	788.7	564.0	395.4
117.5°	1826.7	1952.0	1826.7	1701.4	1670.1	1400.4	1040.9	861.1	765.6	574.4	431.1
120°	1736.5	1858.2	1736.5	1614.7	1584.3	1337.9	1009.4	845.2	757.8	583.0	451.9
122.5°	1648.6	1768.7	1648.6	1528.5	1498.5	1276.7	980.9	832.9	753.7	595.2	476.4
125°	1523.3	1633.9	1523.3	1412.7	1385.1	1196.5	945.3	819.6	750.4	611.8	507.9
127.5°	1410.6	1503.9	1410.6	1317.2	1293.9	1132.1	916.3	808.4	748.4	628.3	538.3
130°	1344.1	1430.3	1344.1	1257.9	1236.4	1092.3	900.2	804.2	749.6	640.4	558.5
132.5°	1283.8	1361.1	1283.8	1206.6	1187.3	1058.4	886.4	800.4	750.4	650.2	575.0
135°	1201.2	1267.8	1201.2	1134.7	1118.1	1010.0	866.0	794.0	749.6	660.8	594.2
137.5°	1135.0	1189.5	1135.0	1080.5	1066.9	975.6	853.9	793.0	754.3	676.8	618.7
140°	1089.5	1140.4	1089.5	1038.5	1025.8	947.0	841.8	789.2	755.0	686.5	635.2
142.5°	1051.9	1095.7	1051.9	1008.0	997.0	927.8	835.4	789.2	757.7	694.7	647.5
145°	995.4	1028.5	995.4	962.2	953.9	897.3	821.7	783.9	757.8	705.4	666.1
147.5°	952.0	979.5	952.0	924.5	917.7	873.1	813.6	783.9	762.9	721.0	689.5
150°	924.7	947.0	924.7	902.4	896.8	859.2	809.0	783.9	765.6	729.2	701.8
152.5°	901.4	918.2	901.4	884.5	880.3	848.2	805.4	783.9	767.4	734.6	709.9
155°	874.5	885.6	874.5	863.4	860.6	835.1	801.0	783.9	771.4	746.3	727.4
157.5°	853.4	861.1	853.4	845.6	843.6	823.7	797.2	783.9	775.3	758.0	745.0
160°	840.7	845.2	840.7	836.2	835.1	818.0	795.3	783.9	777.1	763.3	753.0
162.5°	832.3	836.6	832.3	828.1	827.1	812.7	793.5	783.9	779.0	769.0	761.5
165°	820.5	824.9	820.5	815.9	814.8	804.5	790.8	783.9	781.7	777.2	773.8
167.5°	811.8	813.7	811.8	810.0	809.5	802.7	793.7	789.2	787.3	783.5	780.7
170°	809.5	809.5	809.5	809.5	809.5	802.7	793.7	789.2	789.1	788.9	788.7
172.5°	803.1	801.5	803.1	804.8	805.2	799.9	792.8	789.2	789.2	789.2	789.2
175°	799.4	799.4	799.4	799.4	799.4	796.0	791.4	789.2	790.2	792.4	794.0
177.5°	795.9	794.0	795.9	797.8	798.3	795.6	792.1	790.3	791.2	792.8	794.0
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



TEST NUMBER: P935137

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1373.4	1365.8	1365.8	1352.9	1347.8	1344.0	1337.6	1318.3	1313.2	1308.1	1315.8
5°	1385.0	1370.9	1360.6	1337.6	1318.3	1310.7	1286.3	1240.2	1209.4	1186.4	1173.6
7.5°	1387.5	1369.6	1350.4	1314.5	1268.4	1247.9	1173.6	1089.0	1066.0	1045.5	1032.6
10°	1385.0	1364.5	1337.6	1283.8	1174.9	1139.0	1064.7	1009.6	995.5	991.6	995.5
12.5°	1376.0	1356.8	1319.6	1229.9	1077.5	1053.1	1009.6	977.5	975.0	981.4	1016.0
15°	1360.6	1342.7	1299.1	1158.2	1023.7	1005.7	975.0	963.5	977.5	1022.4	1126.2
17.5°	1345.3	1324.8	1270.9	1087.7	982.7	969.9	948.1	971.1	1050.6	1110.8	1145.4
20°	1324.8	1300.4	1238.9	1036.5	953.2	941.7	931.4	1035.2	1095.4	1117.2	1136.4
22.5°	1300.4	1274.8	1195.4	1000.6	922.5	913.5	919.9	1071.1	1095.4	1110.8	1127.4
25°	1268.4	1246.6	1144.1	972.4	898.1	887.9	912.2	1067.2	1081.3	1085.2	1118.5
27.5°	1238.9	1210.7	1090.3	946.8	868.6	864.8	918.6	1050.6	1060.8	1064.7	1100.5
30°	1203.0	1160.8	1030.1	919.9	837.9	836.6	919.9	1030.1	1027.5	1037.8	1073.6
32.5°	1165.9	1086.5	962.2	886.6	808.4	807.2	910.9	999.3	996.8	1010.9	1037.8
35°	1131.3	1028.8	869.9	848.1	771.3	772.6	889.1	963.5	964.7	977.5	994.2
37.5°	1095.4	978.8	768.7	805.9	735.4	735.4	859.7	930.1	927.6	931.4	954.5
40°	1053.1	900.7	679.0	750.8	702.1	698.2	823.8	894.3	885.3	884.0	916.1
42.5°	1008.3	814.8	612.4	677.8	663.7	658.5	780.2	850.7	834.1	837.9	878.9
45°	959.6	791.8	561.2	572.7	623.9	620.1	732.8	800.7	789.2	799.5	841.7
47.5°	910.9	745.7	544.5	475.3	581.7	580.4	680.3	752.1	745.7	755.9	800.7
50°	844.3	694.4	543.2	407.4	534.3	539.4	617.5	704.7	704.7	713.6	761.0
52.5°	758.5	631.6	493.3	369.0	479.2	494.5	562.4	663.7	666.2	675.2	717.5
55°	680.3	566.3	457.4	339.5	413.8	447.1	508.6	621.4	626.5	635.5	673.9
57.5°	608.6	471.5	449.7	304.9	353.6	385.6	461.2	580.4	582.9	590.6	627.8
60°	531.7	340.8	412.5	267.8	301.1	325.4	417.7	531.7	540.7	545.8	577.8
62.5°	444.6	247.3	374.1	242.1	275.5	280.6	381.8	485.6	497.1	500.9	520.2
65°	316.5	207.6	317.7	220.4	248.6	249.8	343.4	438.2	448.4	454.8	468.9
67.5°	214.0	169.1	242.1	199.9	228.1	229.3	306.2	383.1	397.2	402.3	411.3
70°	148.6	112.7	179.4	178.1	205.0	207.6	266.5	333.1	345.9	349.8	354.9
72.5°	108.9	91.0	148.6	160.1	180.6	183.2	225.5	276.7	289.5	293.4	296.0
75°	83.3	96.1	120.4	139.6	153.7	155.0	184.5	225.5	234.5	237.0	238.3
77.5°	66.6	89.7	88.4	112.7	125.6	123.0	144.8	174.2	181.9	181.9	181.9
80°	50.0	70.5	66.6	80.7	92.2	89.7	103.8	124.3	126.8	129.4	128.1
82.5°	37.2	44.8	44.8	51.2	61.5	58.9	69.2	80.7	80.7	80.7	83.3
85°	23.1	25.6	20.5	26.9	34.6	33.3	38.4	43.6	44.8	44.8	42.3
87.5°	14.1	11.5	6.4	10.2	15.4	15.4	17.9	19.2	17.9	17.9	17.9
90°	13.8	9.6	5.3	9.6	13.8	14.9	23.5	34.8	40.5	36.0	27.0
92.5°	93.8	57.6	21.4	57.6	93.8	102.8	144.6	200.2	228.1	199.9	143.5
95°	183.8	117.4	51.2	117.4	183.8	200.4	355.8	563.0	666.6	594.9	451.3
97.5°	205.5	147.0	88.5	147.0	205.5	220.1	479.3	824.8	997.6	952.3	861.6
100°	223.4	170.3	117.3	170.3	223.4	236.6	524.2	907.6	1099.3	1102.7	1109.3
102.5°	240.8	191.3	141.8	191.3	240.8	253.2	544.8	933.7	1128.1	1186.0	1301.5
105°	267.2	225.2	183.3	225.2	267.2	277.7	560.1	936.7	1125.0	1254.5	1513.6
107.5°	304.2	265.0	225.9	265.0	304.2	313.9	563.0	895.0	1061.0	1241.7	1603.1
110°	325.3	290.0	254.7	290.0	325.3	334.1	558.7	858.1	1007.7	1209.7	1613.8



TEST NUMBER: P935137

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	350.3	316.6	283.0	316.6	350.3	358.6	558.9	825.8	959.2	1166.0	1579.5
115°	387.6	356.6	325.6	356.6	387.6	395.4	564.0	788.7	901.1	1100.3	1498.7
117.5°	424.1	395.9	367.7	395.9	424.1	431.1	574.4	765.6	861.1	1040.9	1400.4
120°	445.3	418.8	392.2	418.8	445.3	451.9	583.0	757.8	845.2	1009.4	1337.9
122.5°	469.8	443.0	416.2	443.0	469.8	476.4	595.2	753.7	832.9	980.9	1276.7
125°	501.8	477.4	452.9	477.4	501.8	507.9	611.8	750.4	819.6	945.3	1196.5
127.5°	532.1	507.4	482.8	507.4	532.1	538.3	628.3	748.4	808.4	916.3	1132.1
130°	551.9	525.4	498.8	525.4	551.9	558.5	640.4	749.6	804.2	900.2	1092.3
132.5°	568.3	541.9	515.3	541.9	568.3	575.0	650.2	750.4	800.4	886.4	1058.4
135°	588.2	564.0	539.8	564.0	588.2	594.2	660.8	749.6	794.0	866.0	1010.0
137.5°	612.8	588.8	564.8	588.8	612.8	618.7	676.8	754.3	793.0	853.9	975.6
140°	629.7	607.7	585.7	607.7	629.7	635.2	686.5	755.0	789.2	841.8	947.0
142.5°	642.4	622.1	601.6	622.1	642.4	647.5	694.7	757.7	789.2	835.4	927.8
145°	661.7	643.9	626.2	643.9	661.7	666.1	705.4	757.8	783.9	821.7	897.3
147.5°	685.2	667.9	650.7	667.9	685.2	689.5	721.0	762.9	783.9	813.6	873.1
150°	697.9	682.3	666.6	682.3	697.9	701.8	729.2	765.6	783.9	809.0	859.2
152.5°	706.9	695.1	683.2	695.1	706.9	709.9	734.6	767.4	783.9	805.4	848.2
155°	725.2	716.4	707.7	716.4	725.2	727.4	746.3	771.4	783.9	801.0	835.1
157.5°	742.8	734.4	725.8	734.4	742.8	745.0	758.0	775.3	783.9	797.2	823.7
160°	751.4	744.7	738.1	744.7	751.4	753.0	763.3	777.1	783.9	795.3	818.0
162.5°	760.3	755.3	750.4	755.3	760.3	761.5	769.0	779.0	783.9	793.5	812.7
165°	772.6	768.1	763.7	768.1	772.6	773.8	777.2	781.7	783.9	790.8	804.5
167.5°	780.2	778.0	775.9	778.0	780.2	780.7	783.5	787.3	789.2	793.7	802.7
170°	788.2	786.1	783.9	786.1	788.2	788.7	788.9	789.1	789.2	793.7	802.7
172.5°	789.1	788.6	788.2	788.6	789.1	789.2	789.2	789.2	789.2	792.8	799.9
175°	794.0	794.0	794.0	794.0	794.0	794.0	792.4	790.2	789.2	791.4	796.0
177.5°	794.0	794.0	794.0	794.0	794.0	794.0	792.8	791.2	790.3	792.1	795.6
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



TEST NUMBER: P935137

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1306.8	1303.0	1308.1	1294.0	1308.1	1303.0	1306.8	1315.8	1308.1	1313.2	1318.3
5°	1146.7	1140.3	1119.8	1103.1	1119.8	1140.3	1146.7	1173.6	1186.4	1209.4	1240.2
7.5°	1025.0	1019.8	1014.7	1004.5	1014.7	1019.8	1025.0	1032.6	1045.5	1066.0	1089.0
10°	998.0	999.3	1007.0	1005.7	1007.0	999.3	998.0	995.5	991.6	995.5	1009.6
12.5°	1067.2	1078.8	1121.0	1118.5	1121.0	1078.8	1067.2	1016.0	981.4	975.0	977.5
15°	1146.7	1150.5	1159.5	1160.8	1159.5	1150.5	1146.7	1126.2	1022.4	977.5	963.5
17.5°	1154.4	1155.6	1162.0	1162.0	1162.0	1155.6	1154.4	1145.4	1110.8	1050.6	971.1
20°	1147.9	1150.5	1163.3	1165.9	1163.3	1150.5	1147.9	1136.4	1117.2	1095.4	1035.2
22.5°	1145.4	1150.5	1160.8	1159.5	1160.8	1150.5	1145.4	1127.4	1110.8	1095.4	1071.1
25°	1132.6	1132.6	1133.9	1135.1	1133.9	1132.6	1132.6	1118.5	1085.2	1081.3	1067.2
27.5°	1105.7	1108.2	1115.9	1114.6	1115.9	1108.2	1105.7	1100.5	1064.7	1060.8	1050.6
30°	1081.3	1078.8	1072.4	1067.2	1072.4	1078.8	1081.3	1073.6	1037.8	1027.5	1030.1
32.5°	1040.3	1033.9	1027.5	1023.7	1027.5	1033.9	1040.3	1037.8	1010.9	996.8	999.3
35°	991.6	992.9	991.6	987.8	991.6	992.9	991.6	994.2	977.5	964.7	963.5
37.5°	957.1	959.6	958.3	953.2	958.3	959.6	957.1	954.5	931.4	927.6	930.1
40°	921.2	922.5	921.2	917.3	921.2	922.5	921.2	916.1	884.0	885.3	894.3
42.5°	886.6	885.3	881.5	878.9	881.5	885.3	886.6	878.9	837.9	834.1	850.7
45°	846.9	848.1	840.5	836.6	840.5	848.1	846.9	841.7	799.5	789.2	800.7
47.5°	807.2	807.2	800.7	796.9	800.7	807.2	807.2	800.7	755.9	745.7	752.1
50°	764.9	763.6	754.6	753.3	754.6	763.6	764.9	761.0	713.6	704.7	704.7
52.5°	716.2	716.2	717.5	720.0	717.5	716.2	716.2	717.5	675.2	666.2	663.7
55°	673.9	675.2	684.2	686.7	684.2	675.2	673.9	673.9	635.5	626.5	621.4
57.5°	630.3	630.3	636.8	636.8	636.8	630.3	630.3	627.8	590.6	582.9	580.4
60°	580.4	582.9	588.1	586.8	588.1	582.9	580.4	577.8	545.8	540.7	531.7
62.5°	527.9	530.4	531.7	529.1	531.7	530.4	527.9	520.2	500.9	497.1	485.6
65°	472.8	475.3	476.6	474.0	476.6	475.3	472.8	468.9	454.8	448.4	438.2
67.5°	416.4	415.1	413.8	418.9	413.8	415.1	416.4	411.3	402.3	397.2	383.1
70°	358.7	358.7	357.5	360.0	357.5	358.7	358.7	354.9	349.8	345.9	333.1
72.5°	297.2	296.0	301.1	297.2	301.1	296.0	297.2	296.0	293.4	289.5	276.7
75°	237.0	239.6	237.0	240.9	237.0	239.6	237.0	238.3	237.0	234.5	225.5
77.5°	180.6	183.2	180.6	180.6	180.6	183.2	180.6	181.9	181.9	181.9	174.2
80°	128.1	126.8	126.8	125.6	126.8	126.8	128.1	128.1	129.4	126.8	124.3
82.5°	82.0	80.7	80.7	83.3	80.7	80.7	82.0	83.3	80.7	80.7	80.7
85°	44.8	46.1	43.6	43.6	43.6	46.1	44.8	42.3	44.8	44.8	43.6
87.5°	16.7	15.4	15.4	15.4	15.4	15.4	16.7	17.9	17.9	17.9	19.2
90°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	27.0	36.0	40.5	34.8
92.5°	101.2	97.2	81.1	65.0	81.1	97.2	101.2	143.5	199.9	228.1	200.2
95°	343.7	331.5	282.7	233.9	282.7	331.5	343.7	451.3	594.9	666.6	563.0
97.5°	793.5	770.3	677.4	584.6	677.4	770.3	793.5	861.6	952.3	997.6	824.8
100°	1114.3	1086.6	976.0	865.4	976.0	1086.6	1114.3	1109.3	1102.7	1099.3	907.6
102.5°	1388.2	1364.6	1269.7	1175.0	1269.7	1364.6	1388.2	1301.5	1186.0	1128.1	933.7
105°	1707.9	1695.2	1644.3	1593.4	1644.3	1695.2	1707.9	1513.6	1254.5	1125.0	936.7
107.5°	1874.2	1877.3	1889.7	1902.0	1889.7	1877.3	1874.2	1603.1	1241.7	1061.0	895.0
110°	1916.8	1930.1	1983.2	2036.2	1983.2	1930.1	1916.8	1613.8	1209.7	1007.7	858.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1889.7	1910.0	1991.5	2073.0	1991.5	1910.0	1889.7	1579.5	1166.0	959.2	825.8
115°	1797.5	1825.8	1938.7	2051.7	1938.7	1825.8	1797.5	1498.7	1100.3	901.1	788.7
117.5°	1670.1	1701.4	1826.7	1952.0	1826.7	1701.4	1670.1	1400.4	1040.9	861.1	765.6
120°	1584.3	1614.7	1736.5	1858.2	1736.5	1614.7	1584.3	1337.9	1009.4	845.2	757.8
122.5°	1498.5	1528.5	1648.6	1768.7	1648.6	1528.5	1498.5	1276.7	980.9	832.9	753.7
125°	1385.1	1412.7	1523.3	1633.9	1523.3	1412.7	1385.1	1196.5	945.3	819.6	750.4
127.5°	1293.9	1317.2	1410.6	1503.9	1410.6	1317.2	1293.9	1132.1	916.3	808.4	748.4
130°	1236.4	1257.9	1344.1	1430.3	1344.1	1257.9	1236.4	1092.3	900.2	804.2	749.6
132.5°	1187.3	1206.6	1283.8	1361.1	1283.8	1206.6	1187.3	1058.4	886.4	800.4	750.4
135°	1118.1	1134.7	1201.2	1267.8	1201.2	1134.7	1118.1	1010.0	866.0	794.0	749.6
137.5°	1066.9	1080.5	1135.0	1189.5	1135.0	1080.5	1066.9	975.6	853.9	793.0	754.3
140°	1025.8	1038.5	1089.5	1140.4	1089.5	1038.5	1025.8	947.0	841.8	789.2	755.0
142.5°	997.0	1008.0	1051.9	1095.7	1051.9	1008.0	997.0	927.8	835.4	789.2	757.7
145°	953.9	962.2	995.4	1028.5	995.4	962.2	953.9	897.3	821.7	783.9	757.8
147.5°	917.7	924.5	952.0	979.5	952.0	924.5	917.7	873.1	813.6	783.9	762.9
150°	896.8	902.4	924.7	947.0	924.7	902.4	896.8	859.2	809.0	783.9	765.6
152.5°	880.3	884.5	901.4	918.2	901.4	884.5	880.3	848.2	805.4	783.9	767.4
155°	860.6	863.4	874.5	885.6	874.5	863.4	860.6	835.1	801.0	783.9	771.4
157.5°	843.6	845.6	853.4	861.1	853.4	845.6	843.6	823.7	797.2	783.9	775.3
160°	835.1	836.2	840.7	845.2	840.7	836.2	835.1	818.0	795.3	783.9	777.1
162.5°	827.1	828.1	832.3	836.6	832.3	828.1	827.1	812.7	793.5	783.9	779.0
165°	814.8	815.9	820.5	824.9	820.5	815.9	814.8	804.5	790.8	783.9	781.7
167.5°	809.5	810.0	811.8	813.7	811.8	810.0	809.5	802.7	793.7	789.2	787.3
170°	809.5	809.5	809.5	809.5	809.5	809.5	809.5	802.7	793.7	789.2	789.1
172.5°	805.2	804.8	803.1	801.5	803.1	804.8	805.2	799.9	792.8	789.2	789.2
175°	799.4	799.4	799.4	799.4	799.4	799.4	799.4	796.0	791.4	789.2	790.2
177.5°	798.3	797.8	795.9	794.0	795.9	797.8	798.3	795.6	792.1	790.3	791.2
180°	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0	794.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1337.6	1344.0	1347.8	1352.9	1365.8
5°	1286.3	1310.7	1318.3	1337.6	1360.6
7.5°	1173.6	1247.9	1268.4	1314.5	1350.4
10°	1064.7	1139.0	1174.9	1283.8	1337.6
12.5°	1009.6	1053.1	1077.5	1229.9	1319.6
15°	975.0	1005.7	1023.7	1158.2	1299.1
17.5°	948.1	969.9	982.7	1087.7	1270.9
20°	931.4	941.7	953.2	1036.5	1238.9
22.5°	919.9	913.5	922.5	1000.6	1195.4
25°	912.2	887.9	898.1	972.4	1144.1
27.5°	918.6	864.8	868.6	946.8	1090.3
30°	919.9	836.6	837.9	919.9	1030.1
32.5°	910.9	807.2	808.4	886.6	962.2
35°	889.1	772.6	771.3	848.1	869.9
37.5°	859.7	735.4	735.4	805.9	768.7
40°	823.8	698.2	702.1	750.8	679.0
42.5°	780.2	658.5	663.7	677.8	612.4
45°	732.8	620.1	623.9	572.7	561.2
47.5°	680.3	580.4	581.7	475.3	544.5
50°	617.5	539.4	534.3	407.4	543.2
52.5°	562.4	494.5	479.2	369.0	493.3
55°	508.6	447.1	413.8	339.5	457.4
57.5°	461.2	385.6	353.6	304.9	449.7
60°	417.7	325.4	301.1	267.8	412.5
62.5°	381.8	280.6	275.5	242.1	374.1
65°	343.4	249.8	248.6	220.4	317.7
67.5°	306.2	229.3	228.1	199.9	242.1
70°	266.5	207.6	205.0	178.1	179.4
72.5°	225.5	183.2	180.6	160.1	148.6
75°	184.5	155.0	153.7	139.6	120.4
77.5°	144.8	123.0	125.6	112.7	88.4
80°	103.8	89.7	92.2	80.7	66.6
82.5°	69.2	58.9	61.5	51.2	44.8
85°	38.4	33.3	34.6	26.9	20.5
87.5°	17.9	15.4	15.4	10.2	6.4
90°	23.5	14.9	13.8	9.6	5.3
92.5°	144.6	102.8	93.8	57.6	21.4
95°	355.8	200.4	183.8	117.4	51.2
97.5°	479.3	220.1	205.5	147.0	88.5
100°	524.2	236.6	223.4	170.3	117.3
102.5°	544.8	253.2	240.8	191.3	141.8
105°	560.1	277.7	267.2	225.2	183.3
107.5°	563.0	313.9	304.2	265.0	225.9
110°	558.7	334.1	325.3	290.0	254.7



TEST NUMBER: P935137

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	558.9	358.6	350.3	316.6	283.0
115°	564.0	395.4	387.6	356.6	325.6
117.5°	574.4	431.1	424.1	395.9	367.7
120°	583.0	451.9	445.3	418.8	392.2
122.5°	595.2	476.4	469.8	443.0	416.2
125°	611.8	507.9	501.8	477.4	452.9
127.5°	628.3	538.3	532.1	507.4	482.8
130°	640.4	558.5	551.9	525.4	498.8
132.5°	650.2	575.0	568.3	541.9	515.3
135°	660.8	594.2	588.2	564.0	539.8
137.5°	676.8	618.7	612.8	588.8	564.8
140°	686.5	635.2	629.7	607.7	585.7
142.5°	694.7	647.5	642.4	622.1	601.6
145°	705.4	666.1	661.7	643.9	626.2
147.5°	721.0	689.5	685.2	667.9	650.7
150°	729.2	701.8	697.9	682.3	666.6
152.5°	734.6	709.9	706.9	695.1	683.2
155°	746.3	727.4	725.2	716.4	707.7
157.5°	758.0	745.0	742.8	734.4	725.8
160°	763.3	753.0	751.4	744.7	738.1
162.5°	769.0	761.5	760.3	755.3	750.4
165°	777.2	773.8	772.6	768.1	763.7
167.5°	783.5	780.7	780.2	778.0	775.9
170°	788.9	788.7	788.2	786.1	783.9
172.5°	789.2	789.2	789.1	788.6	788.2
175°	792.4	794.0	794.0	794.0	794.0
177.5°	792.8	794.0	794.0	794.0	794.0
180°	794.0	794.0	794.0	794.0	794.0



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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	11.25	12.03	12.28	13.07	14.47	14.07	14.86	15.11	15.90	17.30
	3H	11.72	12.42	12.76	13.47	14.89	15.41	16.11	16.45	17.16	18.58
	4H	11.91	12.57	12.96	13.62	15.05	15.85	16.51	16.91	17.57	18.99
	6H	12.02	12.63	13.09	13.69	15.13	16.13	16.74	17.19	17.80	19.23
	8H	12.02	12.60	13.09	13.67	15.11	16.20	16.78	17.27	17.85	19.29
	12H	11.99	12.54	13.06	13.61	15.06	16.24	16.79	17.31	17.85	19.31
4H	2H	12.27	12.93	13.33	13.99	15.41	14.47	15.14	15.54	16.19	17.61
	3H	13.29	13.84	14.36	14.92	16.36	15.97	16.52	17.04	17.60	19.04
	4H	13.56	14.07	14.64	15.14	16.60	16.49	17.00	17.57	18.07	19.53
	6H	13.68	14.12	14.77	15.21	16.67	16.85	17.29	17.94	18.38	19.84
	8H	13.69	14.09	14.77	15.18	16.65	16.96	17.36	18.04	18.45	19.92
	12H	13.65	14.02	14.75	15.12	16.59	17.01	17.38	18.11	18.47	19.95
8H	4H	14.01	14.42	15.09	15.50	16.97	16.61	17.02	17.70	18.10	19.57
	6H	14.27	14.60	15.37	15.73	17.20	17.04	17.38	18.15	18.51	19.97
	8H	14.31	14.60	15.42	15.71	17.20	17.19	17.49	18.31	18.60	20.08
	12H	14.29	14.55	15.41	15.65	17.18	17.29	17.55	18.40	18.65	20.18
12H	4H	14.01	14.38	15.11	15.48	16.95	16.57	16.94	17.67	18.04	19.51
	6H	14.33	14.62	15.44	15.73	17.22	17.04	17.33	18.15	18.44	19.93
	8H	14.39	14.65	15.51	15.75	17.28	17.20	17.45	18.31	18.56	20.09