

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: P936086

Luminaire Tested: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936086
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

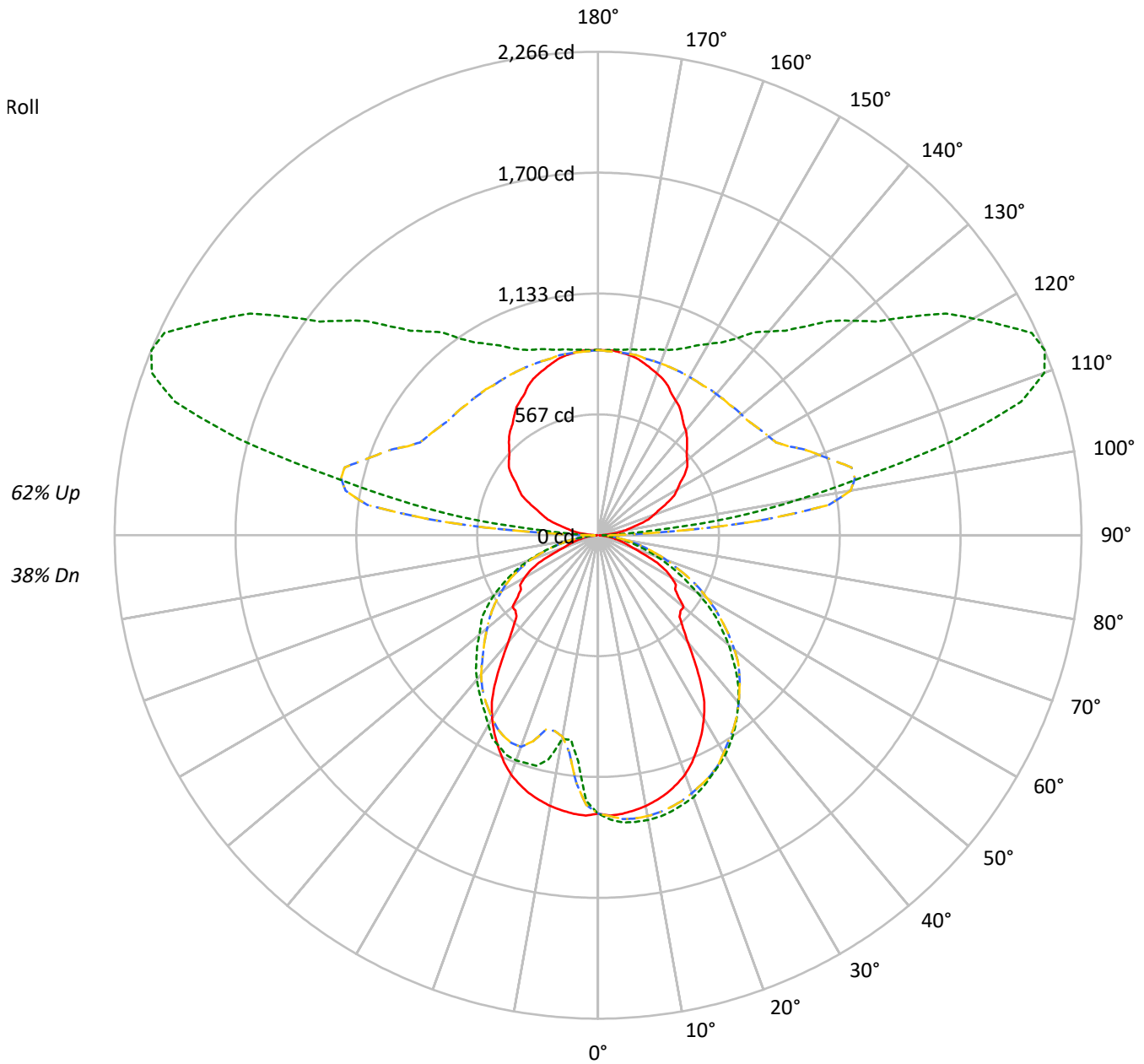
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9012.2 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12103	12103	12103	12103
5°	12181	12218	12181	9607
10°	12087	12036	12087	8604
15°	11941	11774	11941	9832
20°	11677	11466	11677	9852
25°	11153	11016	11153	9643
30°	10480	10642	10480	9186
35°	9328	10169	9328	8682
40°	7760	9611	7760	8301
45°	6920	8959	6920	7864
50°	7334	8182	7334	7424
55°	6882	7344	6882	7170
60°	7067	6237	7067	6567
65°	6379	5155	6379	5763
70°	4387	4110	4387	4832
75°	3804	3037	3804	3637
80°	3005	2009	3005	2188
85°	1631	1062	1631	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10627 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.3
10°-20°	334.3	3.7
20°-30°	516.8	5.7
30°-40°	616.9	6.8
40°-50°	620.5	6.9
50°-60°	539.9	6.0
60°-70°	382.8	4.2
70°-80°	202.5	2.2
80°-90°	53.8	0.6
90°-100°	423.1	4.7
100°-110°	1112.4	12.3
110°-120°	1153.4	12.8
120°-130°	925.2	10.3
130°-140°	725.9	8.1
140°-150°	557.2	6.2
150°-160°	401.3	4.5
160°-170°	245.5	2.7
170°-180°	82.9	0.9
0°-30°	968.8	10.8
0°-40°	1585.7	17.6
0°-60°	2746.2	30.5
0°-90°	3385.3	37.6
90°-120°	2688.9	29.8
90°-150°	4897.1	54.3
90°-180°	5627.0	62.4
0°-180°	9012.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1304	1304	1304	1304	1304	
5°	1311	1351	1311	1062	1311	124
15°	1251	1339	1251	1118	1251	352
25°	1102	1249	1102	1093	1102	506
35°	838	1114	838	952	838	518
45°	540	918	540	806	540	433
55°	441	678	441	662	441	405
65°	306	408	306	457	306	292
75°	116	194	116	232	116	122
85°	20	49	20	42	20	27
90°	6	22	6	22	6	6
95°	56	256	56	256	56	62
105°	200	1742	200	1742	200	212
115°	356	2243	356	2243	356	352
125°	495	1786	495	1786	495	440
135°	590	1386	590	1386	590	457
145°	684	1124	684	1124	684	429
155°	774	968	774	968	774	355
165°	835	902	835	902	835	236
175°	868	874	868	874	868	82
180°	868	868	868	868	868	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1315.4	1315.4	1322.9	1325.3	1325.3	1321.6	1318.0	1321.6	1332.7	1336.5	1335.2
5°	1310.6	1320.4	1334.0	1336.5	1338.9	1337.7	1335.2	1337.7	1350.0	1352.5	1353.7
7.5°	1300.7	1319.2	1336.5	1340.2	1343.8	1340.2	1338.9	1341.4	1353.7	1356.2	1356.2
10°	1288.4	1314.2	1334.0	1336.5	1340.2	1336.5	1336.5	1341.4	1353.7	1356.2	1357.5
12.5°	1271.1	1306.9	1325.3	1327.9	1332.7	1331.5	1330.3	1335.2	1347.6	1350.0	1350.0
15°	1251.3	1293.3	1310.6	1313.0	1321.6	1319.2	1319.2	1324.1	1337.7	1341.4	1340.2
17.5°	1224.2	1276.0	1295.7	1299.5	1305.6	1304.3	1305.6	1310.6	1322.9	1325.3	1326.6
20°	1193.3	1252.6	1276.0	1279.7	1285.8	1285.8	1285.8	1292.0	1304.3	1309.3	1309.3
22.5°	1151.3	1227.8	1252.6	1255.0	1262.4	1262.4	1264.9	1273.5	1284.6	1285.8	1285.8
25°	1102.0	1200.8	1221.7	1229.1	1236.5	1240.2	1243.9	1248.9	1252.6	1251.3	1252.6
27.5°	1050.2	1166.2	1193.3	1198.2	1208.1	1211.9	1216.7	1218.0	1219.2	1222.9	1220.5
30°	992.2	1118.0	1158.7	1163.7	1179.7	1182.2	1177.3	1179.7	1185.9	1188.4	1190.9
32.5°	926.7	1046.5	1122.9	1134.1	1148.9	1141.4	1140.2	1144.0	1153.9	1153.9	1156.3
35°	837.9	991.0	1089.7	1099.5	1110.6	1102.0	1106.9	1108.2	1114.4	1118.0	1116.8
37.5°	740.4	942.8	1055.1	1062.5	1071.1	1060.0	1067.5	1071.1	1076.1	1073.6	1073.6
40°	654.1	867.5	1014.4	1019.3	1026.7	1018.1	1025.4	1028.0	1030.4	1028.0	1026.7
42.5°	589.9	784.8	971.2	977.3	972.4	978.6	981.1	986.0	982.3	977.3	977.3
45°	540.5	762.6	924.3	931.7	924.3	934.2	937.8	937.8	926.7	924.3	923.1
47.5°	524.4	718.2	877.4	877.4	873.7	886.0	892.3	883.6	872.4	868.8	868.8
50°	523.2	668.8	813.2	808.3	825.6	840.4	834.2	825.6	817.0	803.3	803.3
52.5°	475.1	608.4	730.6	749.1	776.2	784.8	774.9	766.3	751.5	745.3	740.4
55°	440.6	545.5	655.3	692.3	720.7	731.8	713.3	704.6	682.4	678.7	676.2
57.5°	433.2	454.1	586.2	633.1	667.6	666.4	655.3	639.2	620.7	617.0	615.8
60°	397.3	328.2	512.1	567.7	603.5	599.7	589.9	575.1	557.8	555.4	552.8
62.5°	360.3	238.2	428.2	491.2	541.7	540.5	531.9	509.7	497.4	491.2	486.2
65°	306.1	199.9	304.8	408.4	481.3	483.7	465.2	449.2	435.6	428.2	426.9
67.5°	233.2	162.9	206.0	340.6	423.3	420.8	397.3	389.9	372.7	368.9	361.6
70°	172.8	108.6	143.2	276.5	366.5	360.3	341.8	333.2	317.2	308.5	303.6
72.5°	143.2	87.6	104.9	214.7	308.5	301.1	285.1	275.2	261.6	254.2	249.3
75°	116.0	92.6	80.2	159.2	250.5	245.5	230.8	220.9	209.8	199.9	201.2
77.5°	85.2	86.4	64.2	117.2	198.7	191.3	182.6	170.3	165.3	155.5	155.5
80°	64.2	67.9	48.1	80.2	143.2	143.2	135.7	127.1	118.4	113.6	113.6
82.5°	43.2	43.2	35.8	50.6	97.5	93.8	88.8	86.4	81.4	79.0	79.0
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.8	49.3	50.6
87.5°	6.2	11.1	13.5	17.3	27.2	28.4	29.6	29.6	29.6	30.8	30.8
90°	5.8	10.5	15.1	16.3	25.7	38.1	44.3	39.3	29.5	22.1	22.1
92.5°	23.3	62.9	102.6	112.5	158.0	218.8	249.3	218.5	156.9	110.7	106.3
95°	55.9	128.4	200.9	219.0	388.9	615.5	728.8	650.3	493.4	375.7	362.4
97.5°	96.7	160.6	224.6	240.6	523.9	901.7	1090.5	1040.9	941.8	867.4	842.0
100°	128.1	186.1	244.1	258.6	573.0	992.2	1201.8	1205.4	1212.7	1218.1	1187.9
102.5°	155.0	209.1	263.2	276.7	595.6	1020.7	1233.3	1296.4	1422.8	1517.6	1491.7
105°	200.4	246.3	292.1	303.6	612.2	1023.9	1229.7	1371.3	1654.6	1867.1	1853.1
107.5°	247.0	289.7	332.5	343.2	615.4	978.4	1159.8	1357.4	1752.5	2048.8	2052.2
110°	278.4	317.0	355.7	365.3	610.7	937.9	1101.6	1322.5	1764.1	2095.4	2109.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	309.3	346.1	382.9	392.1	610.9	902.7	1048.6	1274.6	1726.7	2065.7	2088.0
115°	355.9	389.9	423.8	432.3	616.5	862.3	985.1	1202.8	1638.3	1964.9	1995.9
117.5°	402.0	432.8	463.6	471.3	628.0	837.0	941.4	1137.9	1530.9	1825.7	1860.0
120°	428.7	457.8	486.7	494.0	637.3	828.4	923.9	1103.4	1462.6	1731.9	1765.2
122.5°	455.0	484.2	513.5	520.8	650.7	824.0	910.6	1072.2	1395.6	1638.1	1670.9
125°	495.2	521.8	548.5	555.2	668.7	820.2	896.0	1033.3	1308.0	1514.0	1544.3
127.5°	527.8	554.7	581.6	588.3	686.8	818.1	883.8	1001.7	1237.6	1414.4	1439.9
130°	545.3	574.2	603.2	610.5	700.0	819.4	879.1	984.1	1194.0	1351.5	1375.0
132.5°	563.3	592.3	621.3	628.6	710.7	820.2	875.0	968.9	1156.9	1297.9	1319.0
135°	590.1	616.5	642.9	649.5	722.4	819.4	868.0	946.7	1104.1	1222.1	1240.4
137.5°	617.5	643.6	669.8	676.3	739.8	824.5	866.8	933.3	1066.4	1166.3	1181.1
140°	640.3	664.4	688.5	694.4	750.6	825.4	862.7	920.2	1035.2	1121.4	1135.3
142.5°	657.7	680.0	702.2	707.8	759.4	828.3	862.7	913.3	1014.2	1090.0	1101.9
145°	684.5	704.0	723.3	728.1	771.1	828.4	856.9	898.2	980.8	1042.7	1051.8
147.5°	711.2	730.2	749.1	753.8	788.2	834.1	856.9	889.4	954.4	1003.1	1010.6
150°	728.8	745.9	762.9	767.2	797.1	837.0	856.9	884.4	939.2	980.4	986.5
152.5°	746.8	759.8	772.7	776.0	803.0	838.9	856.9	880.4	927.3	962.4	967.0
155°	773.6	783.3	792.8	795.2	815.8	843.2	856.9	875.6	912.9	940.8	943.9
157.5°	793.4	802.8	812.0	814.4	828.6	847.5	856.9	871.4	900.4	922.1	924.3
160°	806.8	814.1	821.4	823.1	834.4	849.5	856.9	869.4	894.2	912.8	914.0
162.5°	820.2	825.7	831.1	832.5	840.6	851.5	856.9	867.4	888.4	904.1	905.2
165°	834.8	839.7	844.6	845.8	849.6	854.5	856.9	864.4	879.5	890.7	891.9
167.5°	848.2	850.5	852.8	853.4	856.5	860.7	862.7	867.7	877.5	884.9	885.4
170°	856.9	859.3	861.6	862.2	862.4	862.6	862.7	867.7	877.5	884.9	884.9
172.5°	861.6	862.1	862.6	862.7	862.7	862.7	862.7	866.7	874.4	880.2	879.7
175°	868.0	868.0	868.0	868.0	866.2	863.9	862.7	865.2	870.1	873.9	873.9
177.5°	868.0	868.0	868.0	868.0	866.7	864.9	864.0	865.9	869.7	872.6	872.1
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1337.7	1334.0	1337.7	1335.2	1336.5	1332.7	1321.6	1318.0	1321.6	1325.3	1325.3
5°	1353.7	1351.3	1353.7	1353.7	1352.5	1350.0	1337.7	1335.2	1337.7	1338.9	1336.5
7.5°	1358.7	1355.0	1358.7	1356.2	1356.2	1353.7	1341.4	1338.9	1340.2	1343.8	1340.2
10°	1358.7	1355.0	1358.7	1357.5	1356.2	1353.7	1341.4	1336.5	1336.5	1340.2	1336.5
12.5°	1352.5	1350.0	1352.5	1350.0	1350.0	1347.6	1335.2	1330.3	1331.5	1332.7	1327.9
15°	1342.6	1338.9	1342.6	1340.2	1341.4	1337.7	1324.1	1319.2	1319.2	1321.6	1313.0
17.5°	1327.9	1322.9	1327.9	1326.6	1325.3	1322.9	1310.6	1305.6	1304.3	1305.6	1299.5
20°	1310.6	1306.9	1310.6	1309.3	1309.3	1304.3	1292.0	1285.8	1285.8	1285.8	1279.7
22.5°	1283.4	1279.7	1283.4	1285.8	1285.8	1284.6	1273.5	1264.9	1262.4	1262.4	1255.0
25°	1252.6	1248.9	1252.6	1252.6	1251.3	1252.6	1248.9	1243.9	1240.2	1236.5	1229.1
27.5°	1222.9	1220.5	1222.9	1220.5	1222.9	1219.2	1218.0	1216.7	1211.9	1208.1	1198.2
30°	1193.3	1190.9	1193.3	1190.9	1188.4	1185.9	1179.7	1177.3	1182.2	1179.7	1163.7
32.5°	1156.3	1153.9	1156.3	1156.3	1153.9	1153.9	1144.0	1140.2	1141.4	1148.9	1134.1
35°	1118.0	1114.4	1118.0	1116.8	1118.0	1114.4	1108.2	1106.9	1102.0	1110.6	1099.5
37.5°	1073.6	1069.9	1073.6	1073.6	1073.6	1076.1	1071.1	1067.5	1060.0	1071.1	1062.5
40°	1028.0	1023.0	1028.0	1026.7	1028.0	1030.4	1028.0	1025.4	1018.1	1026.7	1019.3
42.5°	976.1	974.9	976.1	977.3	977.3	982.3	986.0	981.1	978.6	972.4	977.3
45°	920.6	918.1	920.6	923.1	924.3	926.7	937.8	937.8	934.2	924.3	931.7
47.5°	861.3	855.2	861.3	868.8	868.8	872.4	883.6	892.3	886.0	873.7	877.4
50°	798.4	799.7	798.4	803.3	803.3	817.0	825.6	834.2	840.4	825.6	808.3
52.5°	736.7	735.5	736.7	740.4	745.3	751.5	766.3	774.9	784.8	776.2	749.1
55°	675.0	677.5	675.0	676.2	678.7	682.4	704.6	713.3	731.8	720.7	692.3
57.5°	613.4	609.6	613.4	615.8	617.0	620.7	639.2	655.3	666.4	667.6	633.1
60°	541.7	536.8	541.7	552.8	555.4	557.8	575.1	589.9	599.7	603.5	567.7
62.5°	478.8	470.2	478.8	486.2	491.2	497.4	509.7	531.9	540.5	541.7	491.2
65°	412.2	408.4	412.2	426.9	428.2	435.6	449.2	465.2	483.7	481.3	408.4
67.5°	351.7	351.7	351.7	361.6	368.9	372.7	389.9	397.3	420.8	423.3	340.6
70°	296.2	295.0	296.2	303.6	308.5	317.2	333.2	341.8	360.3	366.5	276.5
72.5°	243.1	241.9	243.1	249.3	254.2	261.6	275.2	285.1	301.1	308.5	214.7
75°	196.2	193.7	196.2	201.2	199.9	209.8	220.9	230.8	245.5	250.5	159.2
77.5°	150.6	150.6	150.6	155.5	155.5	165.3	170.3	182.6	191.3	198.7	117.2
80°	112.3	111.1	112.3	113.6	113.6	118.4	127.1	135.7	143.2	143.2	80.2
82.5°	79.0	76.5	79.0	79.0	79.0	81.4	86.4	88.8	93.8	97.5	50.6
85°	49.3	49.3	49.3	50.6	49.3	51.8	53.1	55.6	55.6	53.1	30.8
87.5°	32.1	30.8	32.1	30.8	30.8	29.6	29.6	29.6	28.4	27.2	17.3
90°	22.1	22.1	22.1	22.1	22.1	29.5	39.3	44.3	38.1	25.7	16.3
92.5°	88.6	71.1	88.6	106.3	110.7	156.9	218.5	249.3	218.8	158.0	112.5
95°	309.1	255.7	309.1	362.4	375.7	493.4	650.3	728.8	615.5	388.9	219.0
97.5°	740.6	639.0	740.6	842.0	867.4	941.8	1040.9	1090.5	901.7	523.9	240.6
100°	1067.0	946.0	1067.0	1187.9	1218.1	1212.7	1205.4	1201.8	992.2	573.0	258.6
102.5°	1388.1	1284.5	1388.1	1491.7	1517.6	1422.8	1296.4	1233.3	1020.7	595.6	276.7
105°	1797.5	1741.8	1797.5	1853.1	1867.1	1654.6	1371.3	1229.7	1023.9	612.2	303.6
107.5°	2065.6	2079.1	2065.6	2052.2	2048.8	1752.5	1357.4	1159.8	978.4	615.4	343.2
110°	2167.9	2225.9	2167.9	2109.9	2095.4	1764.1	1322.5	1101.6	937.9	610.7	365.3



TEST NUMBER: P936086

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2177.1	2266.1	2177.1	2088.0	2065.7	1726.7	1274.6	1048.6	902.7	610.9	392.1
115°	2119.3	2242.8	2119.3	1995.9	1964.9	1638.3	1202.8	985.1	862.3	616.5	432.3
117.5°	1996.9	2133.8	1996.9	1860.0	1825.7	1530.9	1137.9	941.4	837.0	628.0	471.3
120°	1898.3	2031.4	1898.3	1765.2	1731.9	1462.6	1103.4	923.9	828.4	637.3	494.0
122.5°	1802.2	1933.5	1802.2	1670.9	1638.1	1395.6	1072.2	910.6	824.0	650.7	520.8
125°	1665.1	1786.1	1665.1	1544.3	1514.0	1308.0	1033.3	896.0	820.2	668.7	555.2
127.5°	1541.9	1643.9	1541.9	1439.9	1414.4	1237.6	1001.7	883.8	818.1	686.8	588.3
130°	1469.3	1563.5	1469.3	1375.0	1351.5	1194.0	984.1	879.1	819.4	700.0	610.5
132.5°	1403.3	1487.8	1403.3	1319.0	1297.9	1156.9	968.9	875.0	820.2	710.7	628.6
135°	1313.1	1385.9	1313.1	1240.4	1222.1	1104.1	946.7	868.0	819.4	722.4	649.5
137.5°	1240.7	1300.2	1240.7	1181.1	1166.3	1066.4	933.3	866.8	824.5	739.8	676.3
140°	1190.9	1246.6	1190.9	1135.3	1121.4	1035.2	920.2	862.7	825.4	750.6	694.4
142.5°	1149.8	1197.7	1149.8	1101.9	1090.0	1014.2	913.3	862.7	828.3	759.4	707.8
145°	1088.1	1124.3	1088.1	1051.8	1042.7	980.8	898.2	856.9	828.4	771.1	728.1
147.5°	1040.7	1070.7	1040.7	1010.6	1003.1	954.4	889.4	856.9	834.1	788.2	753.8
150°	1010.9	1035.2	1010.9	986.5	980.4	939.2	884.4	856.9	837.0	797.1	767.2
152.5°	985.4	1003.7	985.4	967.0	962.4	927.3	880.4	856.9	838.9	803.0	776.0
155°	956.0	968.2	956.0	943.9	940.8	912.9	875.6	856.9	843.2	815.8	795.2
157.5°	932.8	941.4	932.8	924.3	922.1	900.4	871.4	856.9	847.5	828.6	814.4
160°	919.0	923.9	919.0	914.0	912.8	894.2	869.4	856.9	849.5	834.4	823.1
162.5°	909.9	914.6	909.9	905.2	904.1	888.4	867.4	856.9	851.5	840.6	832.5
165°	896.8	901.8	896.8	891.9	890.7	879.5	864.4	856.9	854.5	849.6	845.8
167.5°	887.5	889.5	887.5	885.4	884.9	877.5	867.7	862.7	860.7	856.5	853.4
170°	884.9	884.9	884.9	884.9	884.9	877.5	867.7	862.7	862.6	862.4	862.2
172.5°	878.0	876.2	878.0	879.7	880.2	874.4	866.7	862.7	862.7	862.7	862.7
175°	873.9	873.9	873.9	873.9	873.9	870.1	865.2	862.7	863.9	866.2	868.0
177.5°	870.0	868.0	870.0	872.1	872.6	869.7	865.9	864.0	864.9	866.7	868.0
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



TEST NUMBER: P936086

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1322.9	1315.4	1315.4	1303.1	1298.2	1294.5	1288.4	1269.9	1264.9	1260.0	1267.3
5°	1334.0	1320.4	1310.6	1288.4	1269.9	1262.4	1239.0	1194.6	1164.9	1142.7	1130.4
7.5°	1336.5	1319.2	1300.7	1266.1	1221.7	1202.0	1130.4	1049.0	1026.7	1006.9	994.6
10°	1334.0	1314.2	1288.4	1236.5	1131.6	1097.1	1025.4	972.4	958.8	955.1	958.8
12.5°	1325.3	1306.9	1271.1	1184.7	1037.9	1014.4	972.4	941.6	939.1	945.3	978.6
15°	1310.6	1293.3	1251.3	1115.6	986.0	968.7	939.1	928.0	941.6	984.7	1084.7
17.5°	1295.7	1276.0	1224.2	1047.7	946.5	934.2	913.2	935.4	1011.9	1069.9	1103.2
20°	1276.0	1252.6	1193.3	998.4	918.1	907.0	897.1	997.1	1055.1	1076.1	1094.6
22.5°	1252.6	1227.8	1151.3	963.8	888.5	879.8	886.0	1031.7	1055.1	1069.9	1086.0
25°	1221.7	1200.8	1102.0	936.6	865.1	855.2	878.6	1028.0	1041.5	1045.2	1077.3
27.5°	1193.3	1166.2	1050.2	912.0	836.7	832.9	884.8	1011.9	1021.8	1025.4	1060.0
30°	1158.7	1118.0	992.2	886.0	807.1	805.9	886.0	992.2	989.7	999.6	1034.1
32.5°	1122.9	1046.5	926.7	854.0	778.7	777.5	877.4	962.6	960.1	973.7	999.6
35°	1089.7	991.0	837.9	817.0	742.9	744.1	856.4	928.0	929.2	941.6	957.6
37.5°	1055.1	942.8	740.4	776.2	708.3	708.3	828.0	895.9	893.5	897.1	919.3
40°	1014.4	867.5	654.1	723.1	676.2	672.6	793.5	861.3	852.7	851.5	882.3
42.5°	971.2	784.8	589.9	652.8	639.2	634.3	751.5	819.4	803.3	807.1	846.6
45°	924.3	762.6	540.5	551.6	600.9	597.3	705.8	771.3	760.2	770.1	810.8
47.5°	877.4	718.2	524.4	457.8	560.2	559.0	655.3	724.4	718.2	728.1	771.3
50°	813.2	668.8	523.2	392.5	514.6	519.5	594.8	678.7	678.7	687.3	733.0
52.5°	730.6	608.4	475.1	355.4	461.5	476.3	541.7	639.2	641.7	650.3	691.1
55°	655.3	545.5	440.6	327.0	398.6	430.7	489.9	598.5	603.5	612.1	649.1
57.5°	586.2	454.1	433.2	293.7	340.6	371.5	444.2	559.0	561.5	568.9	604.7
60°	512.1	328.2	397.3	257.9	290.0	313.5	402.3	512.1	520.8	525.7	556.6
62.5°	428.2	238.2	360.3	233.2	265.3	270.3	367.7	467.7	478.8	482.5	501.0
65°	304.8	199.9	306.1	212.3	239.4	240.6	330.7	422.1	431.9	438.0	451.7
67.5°	206.0	162.9	233.2	192.5	219.7	220.9	295.0	368.9	382.6	387.5	396.1
70°	143.2	108.6	172.8	171.6	197.4	199.9	256.7	320.8	333.2	336.9	341.8
72.5°	104.9	87.6	143.2	154.3	174.0	176.4	217.2	266.6	278.9	282.6	285.1
75°	80.2	92.6	116.0	134.5	148.0	149.3	177.7	217.2	225.8	228.3	229.5
77.5°	64.2	86.4	85.2	108.6	121.0	118.4	139.4	167.8	175.2	175.2	175.2
80°	48.1	67.9	64.2	77.7	88.8	86.4	99.9	119.7	122.2	124.6	123.4
82.5°	35.8	43.2	43.2	49.3	59.2	56.8	66.6	77.7	77.7	77.7	80.2
85°	22.2	24.7	19.7	25.9	33.3	32.1	37.0	41.9	43.2	43.2	40.7
87.5°	13.5	11.1	6.2	9.9	14.9	14.9	17.3	18.5	17.3	17.3	17.3
90°	15.1	10.5	5.8	10.5	15.1	16.3	25.7	38.1	44.3	39.3	29.5
92.5°	102.6	62.9	23.3	62.9	102.6	112.5	158.0	218.8	249.3	218.5	156.9
95°	200.9	128.4	55.9	128.4	200.9	219.0	388.9	615.5	728.8	650.3	493.4
97.5°	224.6	160.6	96.7	160.6	224.6	240.6	523.9	901.7	1090.5	1040.9	941.8
100°	244.1	186.1	128.1	186.1	244.1	258.6	573.0	992.2	1201.8	1205.4	1212.7
102.5°	263.2	209.1	155.0	209.1	263.2	276.7	595.6	1020.7	1233.3	1296.4	1422.8
105°	292.1	246.3	200.4	246.3	292.1	303.6	612.2	1023.9	1229.7	1371.3	1654.6
107.5°	332.5	289.7	247.0	289.7	332.5	343.2	615.4	978.4	1159.8	1357.4	1752.5
110°	355.7	317.0	278.4	317.0	355.7	365.3	610.7	937.9	1101.6	1322.5	1764.1



TEST NUMBER: P936086

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	382.9	346.1	309.3	346.1	382.9	392.1	610.9	902.7	1048.6	1274.6	1726.7
115°	423.8	389.9	355.9	389.9	423.8	432.3	616.5	862.3	985.1	1202.8	1638.3
117.5°	463.6	432.8	402.0	432.8	463.6	471.3	628.0	837.0	941.4	1137.9	1530.9
120°	486.7	457.8	428.7	457.8	486.7	494.0	637.3	828.4	923.9	1103.4	1462.6
122.5°	513.5	484.2	455.0	484.2	513.5	520.8	650.7	824.0	910.6	1072.2	1395.6
125°	548.5	521.8	495.2	521.8	548.5	555.2	668.7	820.2	896.0	1033.3	1308.0
127.5°	581.6	554.7	527.8	554.7	581.6	588.3	686.8	818.1	883.8	1001.7	1237.6
130°	603.2	574.2	545.3	574.2	603.2	610.5	700.0	819.4	879.1	984.1	1194.0
132.5°	621.3	592.3	563.3	592.3	621.3	628.6	710.7	820.2	875.0	968.9	1156.9
135°	642.9	616.5	590.1	616.5	642.9	649.5	722.4	819.4	868.0	946.7	1104.1
137.5°	669.8	643.6	617.5	643.6	669.8	676.3	739.8	824.5	866.8	933.3	1066.4
140°	688.5	664.4	640.3	664.4	688.5	694.4	750.6	825.4	862.7	920.2	1035.2
142.5°	702.2	680.0	657.7	680.0	702.2	707.8	759.4	828.3	862.7	913.3	1014.2
145°	723.3	704.0	684.5	704.0	723.3	728.1	771.1	828.4	856.9	898.2	980.8
147.5°	749.1	730.2	711.2	730.2	749.1	753.8	788.2	834.1	856.9	889.4	954.4
150°	762.9	745.9	728.8	745.9	762.9	767.2	797.1	837.0	856.9	884.4	939.2
152.5°	772.7	759.8	746.8	759.8	772.7	776.0	803.0	838.9	856.9	880.4	927.3
155°	792.8	783.3	773.6	783.3	792.8	795.2	815.8	843.2	856.9	875.6	912.9
157.5°	812.0	802.8	793.4	802.8	812.0	814.4	828.6	847.5	856.9	871.4	900.4
160°	821.4	814.1	806.8	814.1	821.4	823.1	834.4	849.5	856.9	869.4	894.2
162.5°	831.1	825.7	820.2	825.7	831.1	832.5	840.6	851.5	856.9	867.4	888.4
165°	844.6	839.7	834.8	839.7	844.6	845.8	849.6	854.5	856.9	864.4	879.5
167.5°	852.8	850.5	848.2	850.5	852.8	853.4	856.5	860.7	862.7	867.7	877.5
170°	861.6	859.3	856.9	859.3	861.6	862.2	862.4	862.6	862.7	867.7	877.5
172.5°	862.6	862.1	861.6	862.1	862.6	862.7	862.7	862.7	862.7	866.7	874.4
175°	868.0	868.0	868.0	868.0	868.0	868.0	866.2	863.9	862.7	865.2	870.1
177.5°	868.0	868.0	868.0	868.0	868.0	868.0	866.7	864.9	864.0	865.9	869.7
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



TEST NUMBER: P936086

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1258.8	1255.0	1260.0	1246.3	1260.0	1255.0	1258.8	1267.3	1260.0	1264.9	1269.9
5°	1104.5	1098.3	1078.6	1062.5	1078.6	1098.3	1104.5	1130.4	1142.7	1164.9	1194.6
7.5°	987.2	982.3	977.3	967.4	977.3	982.3	987.2	994.6	1006.9	1026.7	1049.0
10°	961.3	962.6	970.0	968.7	970.0	962.6	961.3	958.8	955.1	958.8	972.4
12.5°	1028.0	1039.1	1079.8	1077.3	1079.8	1039.1	1028.0	978.6	945.3	939.1	941.6
15°	1104.5	1108.2	1116.8	1118.0	1116.8	1108.2	1104.5	1084.7	984.7	941.6	928.0
17.5°	1111.8	1113.1	1119.3	1119.3	1119.3	1113.1	1111.8	1103.2	1069.9	1011.9	935.4
20°	1105.7	1108.2	1120.5	1122.9	1120.5	1108.2	1105.7	1094.6	1076.1	1055.1	997.1
22.5°	1103.2	1108.2	1118.0	1116.8	1118.0	1108.2	1103.2	1086.0	1069.9	1055.1	1031.7
25°	1090.9	1090.9	1092.1	1093.3	1092.1	1090.9	1090.9	1077.3	1045.2	1041.5	1028.0
27.5°	1064.9	1067.5	1074.8	1073.6	1074.8	1067.5	1064.9	1060.0	1025.4	1021.8	1011.9
30°	1041.5	1039.1	1032.9	1028.0	1032.9	1039.1	1041.5	1034.1	999.6	989.7	992.2
32.5°	1002.0	995.8	989.7	986.0	989.7	995.8	1002.0	999.6	973.7	960.1	962.6
35°	955.1	956.4	955.1	951.5	955.1	956.4	955.1	957.6	941.6	929.2	928.0
37.5°	921.9	924.3	923.1	918.1	923.1	924.3	921.9	919.3	897.1	893.5	895.9
40°	887.3	888.5	887.3	883.6	887.3	888.5	887.3	882.3	851.5	852.7	861.3
42.5°	854.0	852.7	849.0	846.6	849.0	852.7	854.0	846.6	807.1	803.3	819.4
45°	815.7	817.0	809.5	805.9	809.5	817.0	815.7	810.8	770.1	760.2	771.3
47.5°	777.5	777.5	771.3	767.6	771.3	777.5	777.5	771.3	728.1	718.2	724.4
50°	736.7	735.5	726.8	725.6	726.8	735.5	736.7	733.0	687.3	678.7	678.7
52.5°	689.9	689.9	691.1	693.5	691.1	689.9	689.9	691.1	650.3	641.7	639.2
55°	649.1	650.3	658.9	661.5	658.9	650.3	649.1	649.1	612.1	603.5	598.5
57.5°	607.1	607.1	613.4	613.4	613.4	607.1	607.1	604.7	568.9	561.5	559.0
60°	559.0	561.5	566.4	565.2	566.4	561.5	559.0	556.6	525.7	520.8	512.1
62.5°	508.4	510.9	512.1	509.7	512.1	510.9	508.4	501.0	482.5	478.8	467.7
65°	455.3	457.8	459.1	456.6	459.1	457.8	455.3	451.7	438.0	431.9	422.1
67.5°	401.1	399.8	398.6	403.5	398.6	399.8	401.1	396.1	387.5	382.6	368.9
70°	345.5	345.5	344.3	346.8	344.3	345.5	345.5	341.8	336.9	333.2	320.8
72.5°	286.3	285.1	290.0	286.3	290.0	285.1	286.3	285.1	282.6	278.9	266.6
75°	228.3	230.8	228.3	232.0	228.3	230.8	228.3	229.5	228.3	225.8	217.2
77.5°	174.0	176.4	174.0	174.0	174.0	176.4	174.0	175.2	175.2	175.2	167.8
80°	123.4	122.2	122.2	121.0	122.2	122.2	123.4	123.4	124.6	122.2	119.7
82.5°	79.0	77.7	77.7	80.2	77.7	77.7	79.0	80.2	77.7	77.7	77.7
85°	43.2	44.5	41.9	41.9	41.9	44.5	43.2	40.7	43.2	43.2	41.9
87.5°	16.1	14.9	14.9	14.9	14.9	14.9	16.1	17.3	17.3	17.3	18.5
90°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	29.5	39.3	44.3	38.1
92.5°	110.7	106.3	88.6	71.1	88.6	106.3	110.7	156.9	218.5	249.3	218.8
95°	375.7	362.4	309.1	255.7	309.1	362.4	375.7	493.4	650.3	728.8	615.5
97.5°	867.4	842.0	740.6	639.0	740.6	842.0	867.4	941.8	1040.9	1090.5	901.7
100°	1218.1	1187.9	1067.0	946.0	1067.0	1187.9	1218.1	1212.7	1205.4	1201.8	992.2
102.5°	1517.6	1491.7	1388.1	1284.5	1388.1	1491.7	1517.6	1422.8	1296.4	1233.3	1020.7
105°	1867.1	1853.1	1797.5	1741.8	1797.5	1853.1	1867.1	1654.6	1371.3	1229.7	1023.9
107.5°	2048.8	2052.2	2065.6	2079.1	2065.6	2052.2	2048.8	1752.5	1357.4	1159.8	978.4
110°	2095.4	2109.9	2167.9	2225.9	2167.9	2109.9	2095.4	1764.1	1322.5	1101.6	937.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2065.7	2088.0	2177.1	2266.1	2177.1	2088.0	2065.7	1726.7	1274.6	1048.6	902.7
115°	1964.9	1995.9	2119.3	2242.8	2119.3	1995.9	1964.9	1638.3	1202.8	985.1	862.3
117.5°	1825.7	1860.0	1996.9	2133.8	1996.9	1860.0	1825.7	1530.9	1137.9	941.4	837.0
120°	1731.9	1765.2	1898.3	2031.4	1898.3	1765.2	1731.9	1462.6	1103.4	923.9	828.4
122.5°	1638.1	1670.9	1802.2	1933.5	1802.2	1670.9	1638.1	1395.6	1072.2	910.6	824.0
125°	1514.0	1544.3	1665.1	1786.1	1665.1	1544.3	1514.0	1308.0	1033.3	896.0	820.2
127.5°	1414.4	1439.9	1541.9	1643.9	1541.9	1439.9	1414.4	1237.6	1001.7	883.8	818.1
130°	1351.5	1375.0	1469.3	1563.5	1469.3	1375.0	1351.5	1194.0	984.1	879.1	819.4
132.5°	1297.9	1319.0	1403.3	1487.8	1403.3	1319.0	1297.9	1156.9	968.9	875.0	820.2
135°	1222.1	1240.4	1313.1	1385.9	1313.1	1240.4	1222.1	1104.1	946.7	868.0	819.4
137.5°	1166.3	1181.1	1240.7	1300.2	1240.7	1181.1	1166.3	1066.4	933.3	866.8	824.5
140°	1121.4	1135.3	1190.9	1246.6	1190.9	1135.3	1121.4	1035.2	920.2	862.7	825.4
142.5°	1090.0	1101.9	1149.8	1197.7	1149.8	1101.9	1090.0	1014.2	913.3	862.7	828.3
145°	1042.7	1051.8	1088.1	1124.3	1088.1	1051.8	1042.7	980.8	898.2	856.9	828.4
147.5°	1003.1	1010.6	1040.7	1070.7	1040.7	1010.6	1003.1	954.4	889.4	856.9	834.1
150°	980.4	986.5	1010.9	1035.2	1010.9	986.5	980.4	939.2	884.4	856.9	837.0
152.5°	962.4	967.0	985.4	1003.7	985.4	967.0	962.4	927.3	880.4	856.9	838.9
155°	940.8	943.9	956.0	968.2	956.0	943.9	940.8	912.9	875.6	856.9	843.2
157.5°	922.1	924.3	932.8	941.4	932.8	924.3	922.1	900.4	871.4	856.9	847.5
160°	912.8	914.0	919.0	923.9	919.0	914.0	912.8	894.2	869.4	856.9	849.5
162.5°	904.1	905.2	909.9	914.6	909.9	905.2	904.1	888.4	867.4	856.9	851.5
165°	890.7	891.9	896.8	901.8	896.8	891.9	890.7	879.5	864.4	856.9	854.5
167.5°	884.9	885.4	887.5	889.5	887.5	885.4	884.9	877.5	867.7	862.7	860.7
170°	884.9	884.9	884.9	884.9	884.9	884.9	884.9	877.5	867.7	862.7	862.6
172.5°	880.2	879.7	878.0	876.2	878.0	879.7	880.2	874.4	866.7	862.7	862.7
175°	873.9	873.9	873.9	873.9	873.9	873.9	873.9	870.1	865.2	862.7	863.9
177.5°	872.6	872.1	870.0	868.0	870.0	872.1	872.6	869.7	865.9	864.0	864.9
180°	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0	868.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1288.4	1294.5	1298.2	1303.1	1315.4
5°	1239.0	1262.4	1269.9	1288.4	1310.6
7.5°	1130.4	1202.0	1221.7	1266.1	1300.7
10°	1025.4	1097.1	1131.6	1236.5	1288.4
12.5°	972.4	1014.4	1037.9	1184.7	1271.1
15°	939.1	968.7	986.0	1115.6	1251.3
17.5°	913.2	934.2	946.5	1047.7	1224.2
20°	897.1	907.0	918.1	998.4	1193.3
22.5°	886.0	879.8	888.5	963.8	1151.3
25°	878.6	855.2	865.1	936.6	1102.0
27.5°	884.8	832.9	836.7	912.0	1050.2
30°	886.0	805.9	807.1	886.0	992.2
32.5°	877.4	777.5	778.7	854.0	926.7
35°	856.4	744.1	742.9	817.0	837.9
37.5°	828.0	708.3	708.3	776.2	740.4
40°	793.5	672.6	676.2	723.1	654.1
42.5°	751.5	634.3	639.2	652.8	589.9
45°	705.8	597.3	600.9	551.6	540.5
47.5°	655.3	559.0	560.2	457.8	524.4
50°	594.8	519.5	514.6	392.5	523.2
52.5°	541.7	476.3	461.5	355.4	475.1
55°	489.9	430.7	398.6	327.0	440.6
57.5°	444.2	371.5	340.6	293.7	433.2
60°	402.3	313.5	290.0	257.9	397.3
62.5°	367.7	270.3	265.3	233.2	360.3
65°	330.7	240.6	239.4	212.3	306.1
67.5°	295.0	220.9	219.7	192.5	233.2
70°	256.7	199.9	197.4	171.6	172.8
72.5°	217.2	176.4	174.0	154.3	143.2
75°	177.7	149.3	148.0	134.5	116.0
77.5°	139.4	118.4	121.0	108.6	85.2
80°	99.9	86.4	88.8	77.7	64.2
82.5°	66.6	56.8	59.2	49.3	43.2
85°	37.0	32.1	33.3	25.9	19.7
87.5°	17.3	14.9	14.9	9.9	6.2
90°	25.7	16.3	15.1	10.5	5.8
92.5°	158.0	112.5	102.6	62.9	23.3
95°	388.9	219.0	200.9	128.4	55.9
97.5°	523.9	240.6	224.6	160.6	96.7
100°	573.0	258.6	244.1	186.1	128.1
102.5°	595.6	276.7	263.2	209.1	155.0
105°	612.2	303.6	292.1	246.3	200.4
107.5°	615.4	343.2	332.5	289.7	247.0
110°	610.7	365.3	355.7	317.0	278.4



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CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	610.9	392.1	382.9	346.1	309.3
115°	616.5	432.3	423.8	389.9	355.9
117.5°	628.0	471.3	463.6	432.8	402.0
120°	637.3	494.0	486.7	457.8	428.7
122.5°	650.7	520.8	513.5	484.2	455.0
125°	668.7	555.2	548.5	521.8	495.2
127.5°	686.8	588.3	581.6	554.7	527.8
130°	700.0	610.5	603.2	574.2	545.3
132.5°	710.7	628.6	621.3	592.3	563.3
135°	722.4	649.5	642.9	616.5	590.1
137.5°	739.8	676.3	669.8	643.6	617.5
140°	750.6	694.4	688.5	664.4	640.3
142.5°	759.4	707.8	702.2	680.0	657.7
145°	771.1	728.1	723.3	704.0	684.5
147.5°	788.2	753.8	749.1	730.2	711.2
150°	797.1	767.2	762.9	745.9	728.8
152.5°	803.0	776.0	772.7	759.8	746.8
155°	815.8	795.2	792.8	783.3	773.6
157.5°	828.6	814.4	812.0	802.8	793.4
160°	834.4	823.1	821.4	814.1	806.8
162.5°	840.6	832.5	831.1	825.7	820.2
165°	849.6	845.8	844.6	839.7	834.8
167.5°	856.5	853.4	852.8	850.5	848.2
170°	862.4	862.2	861.6	859.3	856.9
172.5°	862.7	862.7	862.6	862.1	861.6
175°	866.2	868.0	868.0	868.0	868.0
177.5°	866.7	868.0	868.0	868.0	868.0
180°	868.0	868.0	868.0	868.0	868.0



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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	12.18	12.94	13.24	14.00	15.44	14.98	15.74	16.04	16.80	18.24
	3H	12.65	13.33	13.72	14.40	15.86	16.31	16.99	17.38	18.06	19.52
	4H	12.84	13.49	13.92	14.56	16.02	16.74	17.39	17.82	18.46	19.92
	6H	12.95	13.55	14.04	14.62	16.10	17.01	17.61	18.10	18.68	20.16
	8H	12.95	13.52	14.04	14.61	16.08	17.08	17.65	18.17	18.74	20.21
	12H	12.92	13.46	14.02	14.54	16.03	17.11	17.65	18.21	18.73	20.23
4H	2H	13.20	13.84	14.28	14.91	16.38	15.38	16.03	16.47	17.10	18.56
	3H	14.21	14.75	15.31	15.85	17.33	16.87	17.40	17.96	18.50	19.98
	4H	14.49	14.98	15.58	16.07	17.56	17.38	17.88	18.48	18.97	20.46
	6H	14.61	15.03	15.71	16.14	17.63	17.74	18.16	18.84	19.27	20.76
	8H	14.61	15.00	15.71	16.11	17.61	17.83	18.23	18.94	19.33	20.84
	12H	14.57	14.93	15.69	16.05	17.56	17.88	18.24	19.00	19.36	20.87
8H	4H	14.93	15.32	16.03	16.42	17.93	17.50	17.90	18.61	19.00	20.51
	6H	15.18	15.51	16.31	16.66	18.16	17.92	18.25	19.05	19.40	20.90
	8H	15.22	15.51	16.36	16.64	18.16	18.07	18.36	19.20	19.48	21.01
	12H	15.20	15.46	16.34	16.58	18.14	18.16	18.41	19.30	19.53	21.09
12H	4H	14.93	15.28	16.05	16.40	17.91	17.46	17.82	18.58	18.93	20.45
	6H	15.24	15.53	16.38	16.65	18.18	17.92	18.21	19.05	19.33	20.86
	8H	15.30	15.55	16.44	16.68	18.24	18.07	18.32	19.21	19.45	21.01