

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: P934483

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934483
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

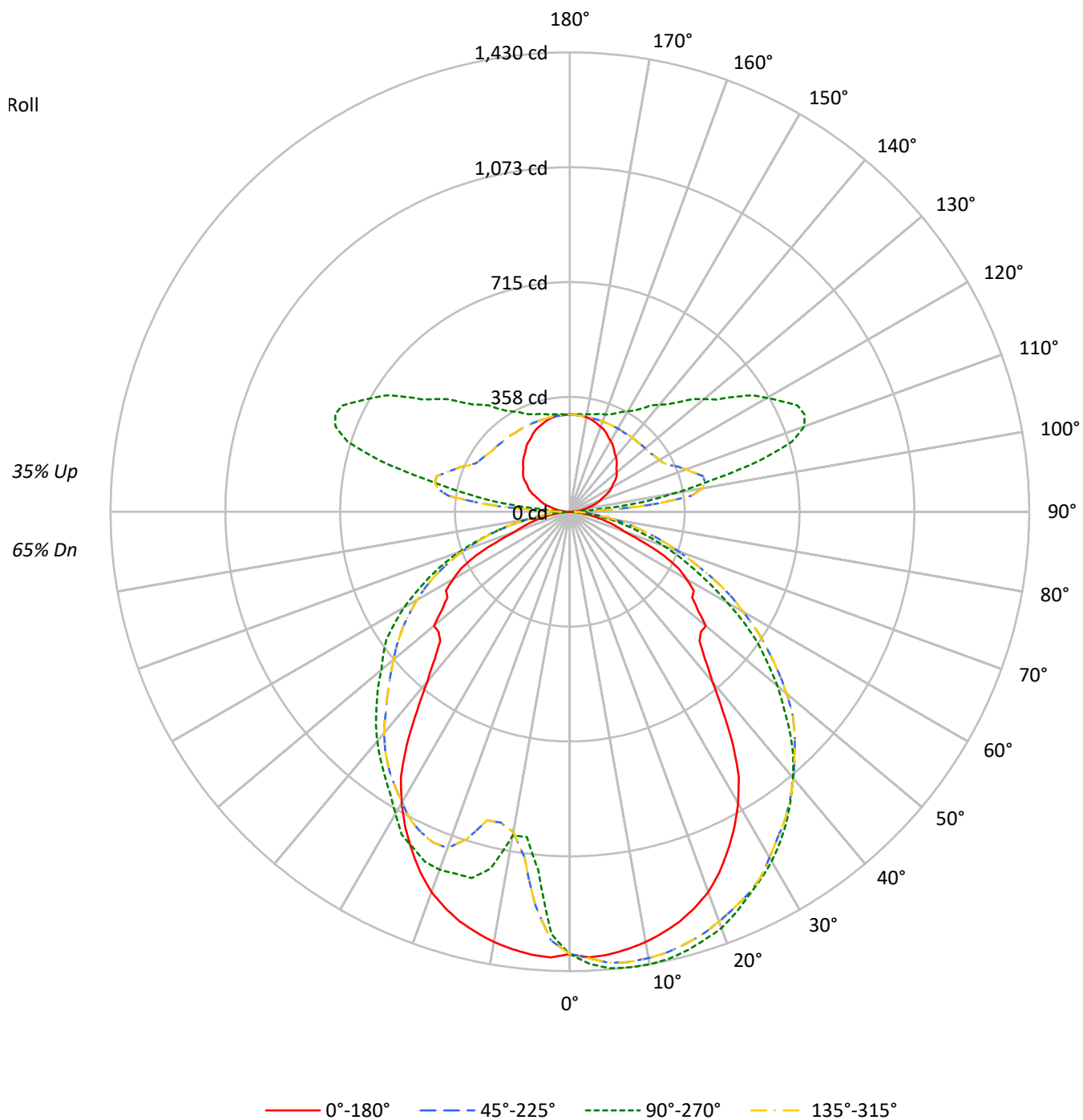
Lumens per Lamp: N/A
Luminaire Lumens: 5534.4 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12777	12777	12777	12777
5°	12860	12898	12860	10142
10°	12759	12705	12759	9084
15°	12605	12429	12605	10379
20°	12327	12104	12327	10401
25°	11774	11629	11774	10180
30°	11063	11234	11063	9697
35°	9847	10734	9847	9165
40°	8192	10146	8192	8764
45°	7305	9457	7305	8301
50°	7744	8637	7744	7837
55°	7265	7753	7265	7569
60°	7460	6584	7460	6932
65°	6733	5443	6733	6085
70°	4631	4338	4631	5100
75°	4017	3206	4017	3839
80°	3168	2119	3168	2309
85°	1722	1123	1722	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11217 cd/sqm

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	2.2
10°-20°	352.9	6.4
20°-30°	545.5	9.9
30°-40°	651.3	11.8
40°-50°	655.1	11.8
50°-60°	570.0	10.3
60°-70°	404.1	7.3
70°-80°	213.8	3.9
80°-90°	54.4	1.0
90°-100°	147.6	2.7
100°-110°	388.1	7.0
110°-120°	402.4	7.3
120°-130°	322.8	5.8
130°-140°	253.2	4.6
140°-150°	194.4	3.5
150°-160°	140.0	2.5
160°-170°	85.6	1.5
170°-180°	28.9	0.5
0°-30°	1022.8	18.5
0°-40°	1674.0	30.2
0°-60°	2899.1	52.4
0°-90°	3571.5	64.5
90°-120°	938.0	16.9
90°-150°	1708.4	30.9
90°-180°	1963.0	35.5
0°-180°	5534.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1377	1377	1377	1377	1377	
5°	1384	1426	1384	1122	1384	131
15°	1321	1413	1321	1180	1321	372
25°	1163	1318	1163	1154	1163	534
35°	884	1176	884	1004	884	547
45°	571	969	571	851	571	457
55°	465	715	465	698	465	427
65°	323	431	323	482	323	309
75°	122	204	122	245	122	129
85°	21	52	21	44	21	28
90°	2	8	2	8	2	3
95°	20	89	20	89	20	22
105°	70	608	70	608	70	74
115°	124	782	124	782	124	123
125°	173	623	173	623	173	153
135°	206	483	206	483	206	159
145°	239	392	239	392	239	150
155°	270	338	270	338	270	124
165°	291	315	291	315	291	82
175°	303	305	303	305	303	29
180°	303	303	303	303	303	

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1388.7	1388.7	1396.6	1399.1	1399.1	1395.2	1391.3	1395.2	1406.9	1410.9	1409.6
5°	1383.6	1393.9	1408.3	1410.9	1413.4	1412.1	1409.6	1412.1	1425.2	1427.8	1429.1
7.5°	1373.1	1392.6	1410.9	1414.8	1418.7	1414.8	1413.4	1416.1	1429.1	1431.7	1431.7
10°	1360.1	1387.4	1408.3	1410.9	1414.8	1410.9	1410.9	1416.1	1429.1	1431.7	1433.1
12.5°	1341.8	1379.6	1399.1	1401.8	1406.9	1405.6	1404.4	1409.6	1422.6	1425.2	1425.2
15°	1320.9	1365.3	1383.6	1386.1	1395.2	1392.6	1392.6	1397.9	1412.1	1416.1	1414.8
17.5°	1292.4	1347.1	1367.9	1371.8	1378.3	1376.9	1378.3	1383.6	1396.6	1399.1	1400.4
20°	1259.7	1322.3	1347.1	1350.9	1357.4	1357.4	1357.4	1363.9	1376.9	1382.2	1382.2
22.5°	1215.4	1296.2	1322.3	1324.9	1332.7	1332.7	1335.3	1344.4	1356.1	1357.4	1357.4
25°	1163.4	1267.6	1289.7	1297.6	1305.4	1309.2	1313.2	1318.4	1322.3	1320.9	1322.3
27.5°	1108.7	1231.1	1259.7	1264.9	1275.4	1279.3	1284.5	1285.8	1287.1	1291.0	1288.4
30°	1047.4	1180.2	1223.2	1228.5	1245.4	1248.0	1242.9	1245.4	1251.9	1254.6	1257.2
32.5°	978.3	1104.7	1185.5	1197.2	1212.9	1205.0	1203.7	1207.7	1218.1	1218.1	1220.7
35°	884.5	1046.1	1150.4	1160.7	1172.5	1163.4	1168.5	1169.9	1176.4	1180.2	1179.0
37.5°	781.6	995.3	1113.9	1121.7	1130.7	1119.0	1126.9	1130.7	1136.0	1133.4	1133.4
40°	690.5	915.8	1070.9	1076.0	1083.9	1074.7	1082.5	1085.2	1087.8	1085.2	1083.9
42.5°	622.8	828.5	1025.2	1031.8	1026.5	1033.0	1035.7	1040.9	1037.0	1031.8	1031.8
45°	570.6	805.1	975.7	983.5	975.7	986.2	990.0	990.0	978.3	975.7	974.5
47.5°	553.6	758.2	926.2	926.2	922.3	935.3	941.9	932.8	921.0	917.2	917.2
50°	552.4	706.1	858.5	853.3	871.5	887.2	880.7	871.5	862.5	848.1	848.1
52.5°	501.6	642.3	771.2	790.8	819.5	828.5	818.1	809.0	793.3	786.8	781.6
55°	465.1	575.8	691.8	730.8	760.8	772.5	753.0	743.8	720.4	716.5	713.9
57.5°	457.3	479.4	618.8	668.3	704.8	703.5	691.8	674.8	655.3	651.4	650.1
60°	419.4	346.5	540.6	599.3	637.1	633.1	622.8	607.1	588.8	586.3	583.6
62.5°	380.4	251.4	452.1	518.5	571.9	570.6	561.5	538.1	525.0	518.5	513.3
65°	323.1	211.0	321.7	431.2	508.1	510.6	491.1	474.2	459.9	452.1	450.7
67.5°	246.2	172.0	217.5	359.6	446.9	444.2	419.4	411.7	393.4	389.5	381.7
70°	182.4	114.7	151.2	291.9	386.9	380.4	360.9	351.7	334.8	325.7	320.4
72.5°	151.2	92.5	110.7	226.7	325.7	317.9	300.9	290.5	276.2	268.4	263.2
75°	122.5	97.7	84.7	168.0	264.4	259.2	243.6	233.2	221.5	211.0	212.4
77.5°	89.9	91.2	67.7	123.7	209.7	201.9	192.8	179.7	174.5	164.2	164.2
80°	67.7	71.7	50.8	84.7	151.2	151.2	143.3	134.2	125.0	119.9	119.9
82.5°	45.6	45.6	37.8	53.4	102.9	99.0	93.8	91.2	86.0	83.4	83.4
85°	20.8	26.0	23.5	32.5	56.0	58.7	58.7	56.0	54.7	52.1	53.4
87.5°	6.5	11.7	14.3	18.2	28.7	30.0	31.3	31.3	31.3	32.5	32.5
90°	2.1	3.6	5.3	5.7	9.0	13.3	15.5	13.7	10.3	7.7	7.7
92.5°	8.1	21.9	35.8	39.2	55.1	76.3	87.0	76.2	54.7	38.7	37.1
95°	19.5	44.8	70.1	76.4	135.7	214.7	254.2	226.8	172.1	131.0	126.4
97.5°	33.7	56.0	78.3	83.9	182.7	314.5	380.4	363.1	328.5	302.6	293.7
100°	44.7	64.9	85.2	90.2	199.9	346.1	419.2	420.5	423.1	425.0	414.4
102.5°	54.0	73.0	91.8	96.5	207.8	356.0	430.2	452.3	496.4	529.4	520.3
105°	69.9	85.9	101.9	105.9	213.6	357.2	429.0	478.4	577.2	651.4	646.5
107.5°	86.2	101.1	116.0	119.7	214.7	341.4	404.7	473.6	611.4	714.8	715.9
110°	97.1	110.5	124.0	127.4	213.1	327.3	384.3	461.3	615.5	731.0	736.0

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	107.9	120.7	133.5	136.8	213.1	314.9	365.8	444.7	602.3	720.7	728.5
115°	124.1	136.0	147.8	150.8	215.0	300.7	343.6	419.5	571.5	685.5	696.2
117.5°	140.2	151.0	161.7	164.4	219.1	292.0	328.4	397.0	534.0	636.9	648.8
120°	149.6	159.7	169.8	172.4	222.3	289.0	322.3	384.9	510.3	604.2	615.9
122.5°	158.7	169.0	179.2	181.7	227.0	287.4	317.6	374.0	486.9	571.5	582.9
125°	172.7	182.0	191.3	193.7	233.3	286.1	312.6	360.5	456.3	528.2	538.8
127.5°	184.1	193.6	202.9	205.3	239.6	285.4	308.3	349.4	431.7	493.4	502.3
130°	190.2	200.4	210.4	213.0	244.2	285.8	306.6	343.3	416.6	471.5	479.7
132.5°	196.5	206.7	216.7	219.3	248.0	286.1	305.3	338.0	403.6	452.8	460.2
135°	205.9	215.0	224.3	226.6	252.0	285.8	302.8	330.2	385.1	426.3	432.7
137.5°	215.4	224.5	233.7	235.9	258.1	287.6	302.4	325.6	372.0	406.8	412.0
140°	223.3	231.7	240.2	242.3	261.8	287.9	300.9	321.0	361.2	391.2	396.1
142.5°	229.4	237.2	244.9	246.9	264.9	288.9	300.9	318.6	353.8	380.2	384.3
145°	238.8	245.5	252.3	254.0	269.0	289.0	299.0	313.4	342.1	363.7	366.9
147.5°	248.2	254.8	261.3	263.0	275.0	291.0	299.0	310.3	333.0	349.9	352.6
150°	254.2	260.1	266.1	267.6	278.1	292.0	299.0	308.5	327.6	342.0	344.2
152.5°	260.5	265.0	269.6	270.7	280.1	292.6	299.0	307.1	323.5	335.7	337.3
155°	269.9	273.2	276.6	277.4	284.6	294.1	299.0	305.5	318.5	328.2	329.3
157.5°	276.8	280.0	283.3	284.1	289.0	295.6	299.0	304.0	314.1	321.7	322.5
160°	281.5	284.0	286.5	287.1	291.1	296.3	299.0	303.3	312.0	318.5	318.9
162.5°	286.1	288.0	289.9	290.4	293.2	297.1	299.0	302.6	309.9	315.4	315.8
165°	291.3	292.9	294.7	295.1	296.4	298.1	299.0	301.5	306.7	310.7	311.1
167.5°	295.9	296.7	297.5	297.7	298.8	300.2	300.9	302.7	306.2	308.7	308.9
170°	299.0	299.7	300.5	300.7	300.8	300.9	300.9	302.7	306.2	308.7	308.7
172.5°	300.5	300.7	300.9	300.9	300.9	300.9	300.9	302.3	305.0	307.0	306.8
175°	302.8	302.8	302.8	302.8	302.2	301.3	300.9	301.8	303.6	304.9	304.9
177.5°	302.8	302.8	302.8	302.8	302.3	301.7	301.4	302.1	303.5	304.5	304.3
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1412.1	1408.3	1412.1	1409.6	1410.9	1406.9	1395.2	1391.3	1395.2	1399.1	1399.1
5°	1429.1	1426.5	1429.1	1429.1	1427.8	1425.2	1412.1	1409.6	1412.1	1413.4	1410.9
7.5°	1434.3	1430.4	1434.3	1431.7	1431.7	1429.1	1416.1	1413.4	1414.8	1418.7	1414.8
10°	1434.3	1430.4	1434.3	1433.1	1431.7	1429.1	1416.1	1410.9	1410.9	1414.8	1410.9
12.5°	1427.8	1425.2	1427.8	1425.2	1425.2	1422.6	1409.6	1404.4	1405.6	1406.9	1401.8
15°	1417.4	1413.4	1417.4	1414.8	1416.1	1412.1	1397.9	1392.6	1392.6	1395.2	1386.1
17.5°	1401.8	1396.6	1401.8	1400.4	1399.1	1396.6	1383.6	1378.3	1376.9	1378.3	1371.8
20°	1383.6	1379.6	1383.6	1382.2	1382.2	1376.9	1363.9	1357.4	1357.4	1357.4	1350.9
22.5°	1354.9	1350.9	1354.9	1357.4	1357.4	1356.1	1344.4	1335.3	1332.7	1332.7	1324.9
25°	1322.3	1318.4	1322.3	1322.3	1320.9	1322.3	1318.4	1313.2	1309.2	1305.4	1297.6
27.5°	1291.0	1288.4	1291.0	1288.4	1291.0	1287.1	1285.8	1284.5	1279.3	1275.4	1264.9
30°	1259.7	1257.2	1259.7	1257.2	1254.6	1251.9	1245.4	1242.9	1248.0	1245.4	1228.5
32.5°	1220.7	1218.1	1220.7	1220.7	1218.1	1218.1	1207.7	1203.7	1205.0	1212.9	1197.2
35°	1180.2	1176.4	1180.2	1179.0	1180.2	1176.4	1169.9	1168.5	1163.4	1172.5	1160.7
37.5°	1133.4	1129.5	1133.4	1133.4	1133.4	1136.0	1130.7	1126.9	1119.0	1130.7	1121.7
40°	1085.2	1080.0	1085.2	1083.9	1085.2	1087.8	1085.2	1082.5	1074.7	1083.9	1076.0
42.5°	1030.5	1029.2	1030.5	1031.8	1031.8	1037.0	1040.9	1035.7	1033.0	1026.5	1031.8
45°	971.8	969.2	971.8	974.5	975.7	978.3	990.0	990.0	986.2	975.7	983.5
47.5°	909.3	902.8	909.3	917.2	917.2	921.0	932.8	941.9	935.3	922.3	926.2
50°	842.8	844.2	842.8	848.1	848.1	862.5	871.5	880.7	887.2	871.5	853.3
52.5°	777.8	776.5	777.8	781.6	786.8	793.3	809.0	818.1	828.5	819.5	790.8
55°	712.6	715.2	712.6	713.9	716.5	720.4	743.8	753.0	772.5	760.8	730.8
57.5°	647.5	643.6	647.5	650.1	651.4	655.3	674.8	691.8	703.5	704.8	668.3
60°	571.9	566.7	571.9	583.6	586.3	588.8	607.1	622.8	633.1	637.1	599.3
62.5°	505.4	496.4	505.4	513.3	518.5	525.0	538.1	561.5	570.6	571.9	518.5
65°	435.1	431.2	435.1	450.7	452.1	459.9	474.2	491.1	510.6	508.1	431.2
67.5°	371.3	371.3	371.3	381.7	389.5	393.4	411.7	419.4	444.2	446.9	359.6
70°	312.7	311.4	312.7	320.4	325.7	334.8	351.7	360.9	380.4	386.9	291.9
72.5°	256.7	255.4	256.7	263.2	268.4	276.2	290.5	300.9	317.9	325.7	226.7
75°	207.2	204.5	207.2	212.4	211.0	221.5	233.2	243.6	259.2	264.4	168.0
77.5°	158.9	158.9	158.9	164.2	164.2	174.5	179.7	192.8	201.9	209.7	123.7
80°	118.5	117.2	118.5	119.9	119.9	125.0	134.2	143.3	151.2	151.2	84.7
82.5°	83.4	80.8	83.4	83.4	83.4	86.0	91.2	93.8	99.0	102.9	53.4
85°	52.1	52.1	52.1	53.4	52.1	54.7	56.0	58.7	58.7	56.0	32.5
87.5°	33.9	32.5	33.9	32.5	32.5	31.3	31.3	31.3	30.0	28.7	18.2
90°	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3	9.0	5.7
92.5°	31.0	24.7	31.0	37.1	38.7	54.7	76.2	87.0	76.3	55.1	39.2
95°	107.8	89.2	107.8	126.4	131.0	172.1	226.8	254.2	214.7	135.7	76.4
97.5°	258.3	222.9	258.3	293.7	302.6	328.5	363.1	380.4	314.5	182.7	83.9
100°	372.2	330.0	372.2	414.4	425.0	423.1	420.5	419.2	346.1	199.9	90.2
102.5°	484.2	448.1	484.2	520.3	529.4	496.4	452.3	430.2	356.0	207.8	96.5
105°	627.1	607.7	627.1	646.5	651.4	577.2	478.4	429.0	357.2	213.6	105.9
107.5°	720.6	725.3	720.6	715.9	714.8	611.4	473.6	404.7	341.4	214.7	119.7
110°	756.3	776.5	756.3	736.0	731.0	615.5	461.3	384.3	327.3	213.1	127.4

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	759.5	790.6	759.5	728.5	720.7	602.3	444.7	365.8	314.9	213.1	136.8
115°	739.3	782.4	739.3	696.2	685.5	571.5	419.5	343.6	300.7	215.0	150.8
117.5°	696.6	744.4	696.6	648.8	636.9	534.0	397.0	328.4	292.0	219.1	164.4
120°	662.2	708.6	662.2	615.9	604.2	510.3	384.9	322.3	289.0	222.3	172.4
122.5°	628.8	674.5	628.8	582.9	571.5	486.9	374.0	317.6	287.4	227.0	181.7
125°	580.9	623.1	580.9	538.8	528.2	456.3	360.5	312.6	286.1	233.3	193.7
127.5°	537.9	573.5	537.9	502.3	493.4	431.7	349.4	308.3	285.4	239.6	205.3
130°	512.6	545.5	512.6	479.7	471.5	416.6	343.3	306.6	285.8	244.2	213.0
132.5°	489.5	519.0	489.5	460.2	452.8	403.6	338.0	305.3	286.1	248.0	219.3
135°	458.1	483.4	458.1	432.7	426.3	385.1	330.2	302.8	285.8	252.0	226.6
137.5°	432.8	453.6	432.8	412.0	406.8	372.0	325.6	302.4	287.6	258.1	235.9
140°	415.5	434.9	415.5	396.1	391.2	361.2	321.0	300.9	287.9	261.8	242.3
142.5°	401.1	417.9	401.1	384.3	380.2	353.8	318.6	300.9	288.9	264.9	246.9
145°	379.6	392.2	379.6	366.9	363.7	342.1	313.4	299.0	289.0	269.0	254.0
147.5°	363.0	373.5	363.0	352.6	349.9	333.0	310.3	299.0	291.0	275.0	263.0
150°	352.7	361.2	352.7	344.2	342.0	327.6	308.5	299.0	292.0	278.1	267.6
152.5°	343.7	350.1	343.7	337.3	335.7	323.5	307.1	299.0	292.6	280.1	270.7
155°	333.6	337.8	333.6	329.3	328.2	318.5	305.5	299.0	294.1	284.6	277.4
157.5°	325.5	328.4	325.5	322.5	321.7	314.1	304.0	299.0	295.6	289.0	284.1
160°	320.6	322.3	320.6	318.9	318.5	312.0	303.3	299.0	296.3	291.1	287.1
162.5°	317.5	319.1	317.5	315.8	315.4	309.9	302.6	299.0	297.1	293.2	290.4
165°	312.9	314.6	312.9	311.1	310.7	306.7	301.5	299.0	298.1	296.4	295.1
167.5°	309.6	310.3	309.6	308.9	308.7	306.2	302.7	300.9	300.2	298.8	297.7
170°	308.7	308.7	308.7	308.7	308.7	306.2	302.7	300.9	300.9	300.8	300.7
172.5°	306.3	305.7	306.3	306.8	307.0	305.0	302.3	300.9	300.9	300.9	300.9
175°	304.9	304.9	304.9	304.9	304.9	303.6	301.8	300.9	301.3	302.2	302.8
177.5°	303.6	302.8	303.6	304.3	304.5	303.5	302.1	301.4	301.7	302.3	302.8
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1396.6	1388.7	1388.7	1375.7	1370.4	1366.6	1360.1	1340.6	1335.3	1330.1	1337.9
5°	1408.3	1393.9	1383.6	1360.1	1340.6	1332.7	1307.9	1261.1	1229.7	1206.4	1193.4
7.5°	1410.9	1392.6	1373.1	1336.6	1289.7	1268.9	1193.4	1107.4	1083.9	1063.0	1050.0
10°	1408.3	1387.4	1360.1	1305.4	1194.6	1158.2	1082.5	1026.5	1012.2	1008.3	1012.2
12.5°	1399.1	1379.6	1341.8	1250.6	1095.6	1070.9	1026.5	994.0	991.4	997.9	1033.0
15°	1383.6	1365.3	1320.9	1177.7	1040.9	1022.7	991.4	979.7	994.0	1039.5	1145.1
17.5°	1367.9	1347.1	1292.4	1106.0	999.2	986.2	964.0	987.5	1068.2	1129.5	1164.7
20°	1347.1	1322.3	1259.7	1053.9	969.2	957.5	947.1	1052.7	1113.9	1136.0	1155.5
22.5°	1322.3	1296.2	1215.4	1017.5	938.0	928.8	935.3	1089.1	1113.9	1129.5	1146.4
25°	1289.7	1267.6	1163.4	988.8	913.2	902.8	927.5	1085.2	1099.5	1103.4	1137.3
27.5°	1259.7	1231.1	1108.7	962.7	883.3	879.3	934.0	1068.2	1078.7	1082.5	1119.0
30°	1223.2	1180.2	1047.4	935.3	852.0	850.7	935.3	1047.4	1044.8	1055.2	1091.7
32.5°	1185.5	1104.7	978.3	901.5	822.0	820.7	926.2	1016.2	1013.5	1027.9	1055.2
35°	1150.4	1046.1	884.5	862.5	784.3	785.5	904.1	979.7	981.0	994.0	1010.9
37.5°	1113.9	995.3	781.6	819.5	747.8	747.8	874.1	945.8	943.2	947.1	970.5
40°	1070.9	915.8	690.5	763.4	713.9	710.0	837.7	909.3	900.2	898.9	931.5
42.5°	1025.2	828.5	622.8	689.1	674.8	669.6	793.3	865.0	848.1	852.0	893.7
45°	975.7	805.1	570.6	582.3	634.4	630.5	745.1	814.2	802.5	813.0	855.9
47.5°	926.2	758.2	553.6	483.3	591.4	590.1	691.8	764.7	758.2	768.6	814.2
50°	858.5	706.1	552.4	414.3	543.3	548.4	627.9	716.5	716.5	725.6	773.8
52.5°	771.2	642.3	501.6	375.2	487.2	502.9	571.9	674.8	677.4	686.6	729.5
55°	691.8	575.8	465.1	345.2	420.8	454.6	517.2	631.8	637.1	646.1	685.3
57.5°	618.8	479.4	457.3	310.1	359.6	392.1	468.9	590.1	592.8	600.6	638.3
60°	540.6	346.5	419.4	272.2	306.2	330.9	424.7	540.6	549.8	554.9	587.6
62.5°	452.1	251.4	380.4	246.2	280.1	285.3	388.2	493.7	505.4	509.4	528.9
65°	321.7	211.0	323.1	224.1	252.7	254.0	349.1	445.6	455.9	462.4	476.8
67.5°	217.5	172.0	246.2	203.2	231.9	233.2	311.4	389.5	403.9	409.1	418.2
70°	151.2	114.7	182.4	181.1	208.4	211.0	271.0	338.7	351.7	355.7	360.9
72.5°	110.7	92.5	151.2	162.9	183.7	186.3	229.2	281.4	294.4	298.4	300.9
75°	84.7	97.7	122.5	142.0	156.3	157.7	187.6	229.2	238.4	241.0	242.3
77.5°	67.7	91.2	89.9	114.7	127.7	125.0	147.2	177.2	185.0	185.0	185.0
80°	50.8	71.7	67.7	82.0	93.8	91.2	105.5	126.4	129.0	131.5	130.3
82.5°	37.8	45.6	45.6	52.1	62.5	59.9	70.3	82.0	82.0	82.0	84.7
85°	23.5	26.0	20.8	27.3	35.2	33.9	39.0	44.3	45.6	45.6	43.0
87.5°	14.3	11.7	6.5	10.5	15.7	15.7	18.2	19.5	18.2	18.2	18.2
90°	5.3	3.6	2.1	3.6	5.3	5.7	9.0	13.3	15.5	13.7	10.3
92.5°	35.8	21.9	8.1	21.9	35.8	39.2	55.1	76.3	87.0	76.2	54.7
95°	70.1	44.8	19.5	44.8	70.1	76.4	135.7	214.7	254.2	226.8	172.1
97.5°	78.3	56.0	33.7	56.0	78.3	83.9	182.7	314.5	380.4	363.1	328.5
100°	85.2	64.9	44.7	64.9	85.2	90.2	199.9	346.1	419.2	420.5	423.1
102.5°	91.8	73.0	54.0	73.0	91.8	96.5	207.8	356.0	430.2	452.3	496.4
105°	101.9	85.9	69.9	85.9	101.9	105.9	213.6	357.2	429.0	478.4	577.2
107.5°	116.0	101.1	86.2	101.1	116.0	119.7	214.7	341.4	404.7	473.6	611.4
110°	124.0	110.5	97.1	110.5	124.0	127.4	213.1	327.3	384.3	461.3	615.5

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	133.5	120.7	107.9	120.7	133.5	136.8	213.1	314.9	365.8	444.7	602.3
115°	147.8	136.0	124.1	136.0	147.8	150.8	215.0	300.7	343.6	419.5	571.5
117.5°	161.7	151.0	140.2	151.0	161.7	164.4	219.1	292.0	328.4	397.0	534.0
120°	169.8	159.7	149.6	159.7	169.8	172.4	222.3	289.0	322.3	384.9	510.3
122.5°	179.2	169.0	158.7	169.0	179.2	181.7	227.0	287.4	317.6	374.0	486.9
125°	191.3	182.0	172.7	182.0	191.3	193.7	233.3	286.1	312.6	360.5	456.3
127.5°	202.9	193.6	184.1	193.6	202.9	205.3	239.6	285.4	308.3	349.4	431.7
130°	210.4	200.4	190.2	200.4	210.4	213.0	244.2	285.8	306.6	343.3	416.6
132.5°	216.7	206.7	196.5	206.7	216.7	219.3	248.0	286.1	305.3	338.0	403.6
135°	224.3	215.0	205.9	215.0	224.3	226.6	252.0	285.8	302.8	330.2	385.1
137.5°	233.7	224.5	215.4	224.5	233.7	235.9	258.1	287.6	302.4	325.6	372.0
140°	240.2	231.7	223.3	231.7	240.2	242.3	261.8	287.9	300.9	321.0	361.2
142.5°	244.9	237.2	229.4	237.2	244.9	246.9	264.9	288.9	300.9	318.6	353.8
145°	252.3	245.5	238.8	245.5	252.3	254.0	269.0	289.0	299.0	313.4	342.1
147.5°	261.3	254.8	248.2	254.8	261.3	263.0	275.0	291.0	299.0	310.3	333.0
150°	266.1	260.1	254.2	260.1	266.1	267.6	278.1	292.0	299.0	308.5	327.6
152.5°	269.6	265.0	260.5	265.0	269.6	270.7	280.1	292.6	299.0	307.1	323.5
155°	276.6	273.2	269.9	273.2	276.6	277.4	284.6	294.1	299.0	305.5	318.5
157.5°	283.3	280.0	276.8	280.0	283.3	284.1	289.0	295.6	299.0	304.0	314.1
160°	286.5	284.0	281.5	284.0	286.5	287.1	291.1	296.3	299.0	303.3	312.0
162.5°	289.9	288.0	286.1	288.0	289.9	290.4	293.2	297.1	299.0	302.6	309.9
165°	294.7	292.9	291.3	292.9	294.7	295.1	296.4	298.1	299.0	301.5	306.7
167.5°	297.5	296.7	295.9	296.7	297.5	297.7	298.8	300.2	300.9	302.7	306.2
170°	300.5	299.7	299.0	299.7	300.5	300.7	300.8	300.9	300.9	302.7	306.2
172.5°	300.9	300.7	300.5	300.7	300.9	300.9	300.9	300.9	300.9	302.3	305.0
175°	302.8	302.8	302.8	302.8	302.8	302.8	302.2	301.3	300.9	301.8	303.6
177.5°	302.8	302.8	302.8	302.8	302.8	302.8	302.3	301.7	301.4	302.1	303.5
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1328.8	1324.9	1330.1	1315.7	1330.1	1324.9	1328.8	1337.9	1330.1	1335.3	1340.6
5°	1165.9	1159.4	1138.6	1121.7	1138.6	1159.4	1165.9	1193.4	1206.4	1229.7	1261.1
7.5°	1042.2	1037.0	1031.8	1021.3	1031.8	1037.0	1042.2	1050.0	1063.0	1083.9	1107.4
10°	1014.8	1016.2	1024.0	1022.7	1024.0	1016.2	1014.8	1012.2	1008.3	1012.2	1026.5
12.5°	1085.2	1096.9	1139.9	1137.3	1139.9	1096.9	1085.2	1033.0	997.9	991.4	994.0
15°	1165.9	1169.9	1179.0	1180.2	1179.0	1169.9	1165.9	1145.1	1039.5	994.0	979.7
17.5°	1173.7	1175.1	1181.6	1181.6	1181.6	1175.1	1173.7	1164.7	1129.5	1068.2	987.5
20°	1167.2	1169.9	1182.9	1185.5	1182.9	1169.9	1167.2	1155.5	1136.0	1113.9	1052.7
22.5°	1164.7	1169.9	1180.2	1179.0	1180.2	1169.9	1164.7	1146.4	1129.5	1113.9	1089.1
25°	1151.6	1151.6	1152.9	1154.2	1152.9	1151.6	1151.6	1137.3	1103.4	1099.5	1085.2
27.5°	1124.2	1126.9	1134.7	1133.4	1134.7	1126.9	1124.2	1119.0	1082.5	1078.7	1068.2
30°	1099.5	1096.9	1090.4	1085.2	1090.4	1096.9	1099.5	1091.7	1055.2	1044.8	1047.4
32.5°	1057.8	1051.3	1044.8	1040.9	1044.8	1051.3	1057.8	1055.2	1027.9	1013.5	1016.2
35°	1008.3	1009.7	1008.3	1004.4	1008.3	1009.7	1008.3	1010.9	994.0	981.0	979.7
37.5°	973.2	975.7	974.5	969.2	974.5	975.7	973.2	970.5	947.1	943.2	945.8
40°	936.7	938.0	936.7	932.8	936.7	938.0	936.7	931.5	898.9	900.2	909.3
42.5°	901.5	900.2	896.3	893.7	896.3	900.2	901.5	893.7	852.0	848.1	865.0
45°	861.1	862.5	854.6	850.7	854.6	862.5	861.1	855.9	813.0	802.5	814.2
47.5°	820.7	820.7	814.2	810.3	814.2	820.7	820.7	814.2	768.6	758.2	764.7
50°	777.8	776.5	767.3	766.0	767.3	776.5	777.8	773.8	725.6	716.5	716.5
52.5°	728.3	728.3	729.5	732.1	729.5	728.3	728.3	729.5	686.6	677.4	674.8
55°	685.3	686.6	695.6	698.3	695.6	686.6	685.3	685.3	646.1	637.1	631.8
57.5°	640.9	640.9	647.5	647.5	647.5	640.9	640.9	638.3	600.6	592.8	590.1
60°	590.1	592.8	597.9	596.6	597.9	592.8	590.1	587.6	554.9	549.8	540.6
62.5°	536.7	539.3	540.6	538.1	540.6	539.3	536.7	528.9	509.4	505.4	493.7
65°	480.7	483.3	484.6	482.1	484.6	483.3	480.7	476.8	462.4	455.9	445.6
67.5°	423.4	422.1	420.8	426.0	420.8	422.1	423.4	418.2	409.1	403.9	389.5
70°	364.7	364.7	363.4	366.1	363.4	364.7	364.7	360.9	355.7	351.7	338.7
72.5°	302.2	300.9	306.2	302.2	306.2	300.9	302.2	300.9	298.4	294.4	281.4
75°	241.0	243.6	241.0	244.9	241.0	243.6	241.0	242.3	241.0	238.4	229.2
77.5°	183.7	186.3	183.7	183.7	183.7	186.3	183.7	185.0	185.0	185.0	177.2
80°	130.3	129.0	129.0	127.7	129.0	129.0	130.3	130.3	131.5	129.0	126.4
82.5°	83.4	82.0	82.0	84.7	82.0	82.0	83.4	84.7	82.0	82.0	82.0
85°	45.6	46.9	44.3	44.3	44.3	46.9	45.6	43.0	45.6	45.6	44.3
87.5°	17.0	15.7	15.7	15.7	15.7	15.7	17.0	18.2	18.2	18.2	19.5
90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3
92.5°	38.7	37.1	31.0	24.7	31.0	37.1	38.7	54.7	76.2	87.0	76.3
95°	131.0	126.4	107.8	89.2	107.8	126.4	131.0	172.1	226.8	254.2	214.7
97.5°	302.6	293.7	258.3	222.9	258.3	293.7	302.6	328.5	363.1	380.4	314.5
100°	425.0	414.4	372.2	330.0	372.2	414.4	425.0	423.1	420.5	419.2	346.1
102.5°	529.4	520.3	484.2	448.1	484.2	520.3	529.4	496.4	452.3	430.2	356.0
105°	651.4	646.5	627.1	607.7	627.1	646.5	651.4	577.2	478.4	429.0	357.2
107.5°	714.8	715.9	720.6	725.3	720.6	715.9	714.8	611.4	473.6	404.7	341.4
110°	731.0	736.0	756.3	776.5	756.3	736.0	731.0	615.5	461.3	384.3	327.3

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	720.7	728.5	759.5	790.6	759.5	728.5	720.7	602.3	444.7	365.8	314.9
115°	685.5	696.2	739.3	782.4	739.3	696.2	685.5	571.5	419.5	343.6	300.7
117.5°	636.9	648.8	696.6	744.4	696.6	648.8	636.9	534.0	397.0	328.4	292.0
120°	604.2	615.9	662.2	708.6	662.2	615.9	604.2	510.3	384.9	322.3	289.0
122.5°	571.5	582.9	628.8	674.5	628.8	582.9	571.5	486.9	374.0	317.6	287.4
125°	528.2	538.8	580.9	623.1	580.9	538.8	528.2	456.3	360.5	312.6	286.1
127.5°	493.4	502.3	537.9	573.5	537.9	502.3	493.4	431.7	349.4	308.3	285.4
130°	471.5	479.7	512.6	545.5	512.6	479.7	471.5	416.6	343.3	306.6	285.8
132.5°	452.8	460.2	489.5	519.0	489.5	460.2	452.8	403.6	338.0	305.3	286.1
135°	426.3	432.7	458.1	483.4	458.1	432.7	426.3	385.1	330.2	302.8	285.8
137.5°	406.8	412.0	432.8	453.6	432.8	412.0	406.8	372.0	325.6	302.4	287.6
140°	391.2	396.1	415.5	434.9	415.5	396.1	391.2	361.2	321.0	300.9	287.9
142.5°	380.2	384.3	401.1	417.9	401.1	384.3	380.2	353.8	318.6	300.9	288.9
145°	363.7	366.9	379.6	392.2	379.6	366.9	363.7	342.1	313.4	299.0	289.0
147.5°	349.9	352.6	363.0	373.5	363.0	352.6	349.9	333.0	310.3	299.0	291.0
150°	342.0	344.2	352.7	361.2	352.7	344.2	342.0	327.6	308.5	299.0	292.0
152.5°	335.7	337.3	343.7	350.1	343.7	337.3	335.7	323.5	307.1	299.0	292.6
155°	328.2	329.3	333.6	337.8	333.6	329.3	328.2	318.5	305.5	299.0	294.1
157.5°	321.7	322.5	325.5	328.4	325.5	322.5	321.7	314.1	304.0	299.0	295.6
160°	318.5	318.9	320.6	322.3	320.6	318.9	318.5	312.0	303.3	299.0	296.3
162.5°	315.4	315.8	317.5	319.1	317.5	315.8	315.4	309.9	302.6	299.0	297.1
165°	310.7	311.1	312.9	314.6	312.9	311.1	310.7	306.7	301.5	299.0	298.1
167.5°	308.7	308.9	309.6	310.3	309.6	308.9	308.7	306.2	302.7	300.9	300.2
170°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	306.2	302.7	300.9	300.9
172.5°	307.0	306.8	306.3	305.7	306.3	306.8	307.0	305.0	302.3	300.9	300.9
175°	304.9	304.9	304.9	304.9	304.9	304.9	304.9	303.6	301.8	300.9	301.3
177.5°	304.5	304.3	303.6	302.8	303.6	304.3	304.5	303.5	302.1	301.4	301.7
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1360.1	1366.6	1370.4	1375.7	1388.7
5°	1307.9	1332.7	1340.6	1360.1	1383.6
7.5°	1193.4	1268.9	1289.7	1336.6	1373.1
10°	1082.5	1158.2	1194.6	1305.4	1360.1
12.5°	1026.5	1070.9	1095.6	1250.6	1341.8
15°	991.4	1022.7	1040.9	1177.7	1320.9
17.5°	964.0	986.2	999.2	1106.0	1292.4
20°	947.1	957.5	969.2	1053.9	1259.7
22.5°	935.3	928.8	938.0	1017.5	1215.4
25°	927.5	902.8	913.2	988.8	1163.4
27.5°	934.0	879.3	883.3	962.7	1108.7
30°	935.3	850.7	852.0	935.3	1047.4
32.5°	926.2	820.7	822.0	901.5	978.3
35°	904.1	785.5	784.3	862.5	884.5
37.5°	874.1	747.8	747.8	819.5	781.6
40°	837.7	710.0	713.9	763.4	690.5
42.5°	793.3	669.6	674.8	689.1	622.8
45°	745.1	630.5	634.4	582.3	570.6
47.5°	691.8	590.1	591.4	483.3	553.6
50°	627.9	548.4	543.3	414.3	552.4
52.5°	571.9	502.9	487.2	375.2	501.6
55°	517.2	454.6	420.8	345.2	465.1
57.5°	468.9	392.1	359.6	310.1	457.3
60°	424.7	330.9	306.2	272.2	419.4
62.5°	388.2	285.3	280.1	246.2	380.4
65°	349.1	254.0	252.7	224.1	323.1
67.5°	311.4	233.2	231.9	203.2	246.2
70°	271.0	211.0	208.4	181.1	182.4
72.5°	229.2	186.3	183.7	162.9	151.2
75°	187.6	157.7	156.3	142.0	122.5
77.5°	147.2	125.0	127.7	114.7	89.9
80°	105.5	91.2	93.8	82.0	67.7
82.5°	70.3	59.9	62.5	52.1	45.6
85°	39.0	33.9	35.2	27.3	20.8
87.5°	18.2	15.7	15.7	10.5	6.5
90°	9.0	5.7	5.3	3.6	2.1
92.5°	55.1	39.2	35.8	21.9	8.1
95°	135.7	76.4	70.1	44.8	19.5
97.5°	182.7	83.9	78.3	56.0	33.7
100°	199.9	90.2	85.2	64.9	44.7
102.5°	207.8	96.5	91.8	73.0	54.0
105°	213.6	105.9	101.9	85.9	69.9
107.5°	214.7	119.7	116.0	101.1	86.2
110°	213.1	127.4	124.0	110.5	97.1



TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	213.1	136.8	133.5	120.7	107.9
115°	215.0	150.8	147.8	136.0	124.1
117.5°	219.1	164.4	161.7	151.0	140.2
120°	222.3	172.4	169.8	159.7	149.6
122.5°	227.0	181.7	179.2	169.0	158.7
125°	233.3	193.7	191.3	182.0	172.7
127.5°	239.6	205.3	202.9	193.6	184.1
130°	244.2	213.0	210.4	200.4	190.2
132.5°	248.0	219.3	216.7	206.7	196.5
135°	252.0	226.6	224.3	215.0	205.9
137.5°	258.1	235.9	233.7	224.5	215.4
140°	261.8	242.3	240.2	231.7	223.3
142.5°	264.9	246.9	244.9	237.2	229.4
145°	269.0	254.0	252.3	245.5	238.8
147.5°	275.0	263.0	261.3	254.8	248.2
150°	278.1	267.6	266.1	260.1	254.2
152.5°	280.1	270.7	269.6	265.0	260.5
155°	284.6	277.4	276.6	273.2	269.9
157.5°	289.0	284.1	283.3	280.0	276.8
160°	291.1	287.1	286.5	284.0	281.5
162.5°	293.2	290.4	289.9	288.0	286.1
165°	296.4	295.1	294.7	292.9	291.3
167.5°	298.8	297.7	297.5	296.7	295.9
170°	300.8	300.7	300.5	299.7	299.0
172.5°	300.9	300.9	300.9	300.7	300.5
175°	302.2	302.8	302.8	302.8	302.8
177.5°	302.3	302.8	302.8	302.8	302.8
180°	302.8	302.8	302.8	302.8	302.8

TEST NUMBER: P934483

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-W2A-W-4-3000K

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	14.89	15.90	15.71	16.74	17.79	17.69	18.69	18.51	19.54	20.59
	3H	15.38	16.28	16.21	17.14	18.21	19.03	19.94	19.87	20.79	21.87
	4H	15.57	16.43	16.43	17.29	18.38	19.48	20.33	20.33	21.19	22.28
	6H	15.70	16.49	16.57	17.36	18.46	19.76	20.55	20.63	21.42	22.52
	8H	15.71	16.46	16.58	17.34	18.44	19.84	20.59	20.71	21.47	22.57
	12H	15.68	16.40	16.56	17.28	18.40	19.88	20.59	20.75	21.47	22.60
4H	2H	15.93	16.79	16.79	17.65	18.73	18.11	18.97	18.97	19.83	20.92
	3H	16.97	17.68	17.84	18.58	19.68	19.62	20.34	20.49	21.23	22.33
	4H	17.25	17.90	18.13	18.79	19.92	20.15	20.80	21.03	21.69	22.82
	6H	17.39	17.95	18.28	18.86	19.99	20.52	21.08	21.41	21.99	23.12
	8H	17.40	17.92	18.29	18.83	19.97	20.62	21.15	21.52	22.06	23.20
	12H	17.37	17.84	18.29	18.77	19.92	20.68	21.15	21.60	22.08	23.23
8H	4H	17.71	18.24	18.61	19.15	20.29	20.29	20.81	21.19	21.72	22.87
	6H	17.98	18.41	18.91	19.37	20.51	20.72	21.16	21.65	22.11	23.25
	8H	18.03	18.41	18.96	19.35	20.51	20.87	21.26	21.81	22.20	23.36
	12H	18.02	18.35	18.95	19.29	20.50	20.97	21.31	21.91	22.24	23.46
12H	4H	17.73	18.20	18.64	19.13	20.27	20.26	20.73	21.18	21.66	22.81
	6H	18.04	18.43	18.98	19.37	20.53	20.72	21.11	21.66	22.05	23.21
	8H	18.12	18.45	19.05	19.39	20.60	20.89	21.22	21.82	22.16	23.37

END OF REPORT