

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: P935283

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935283
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

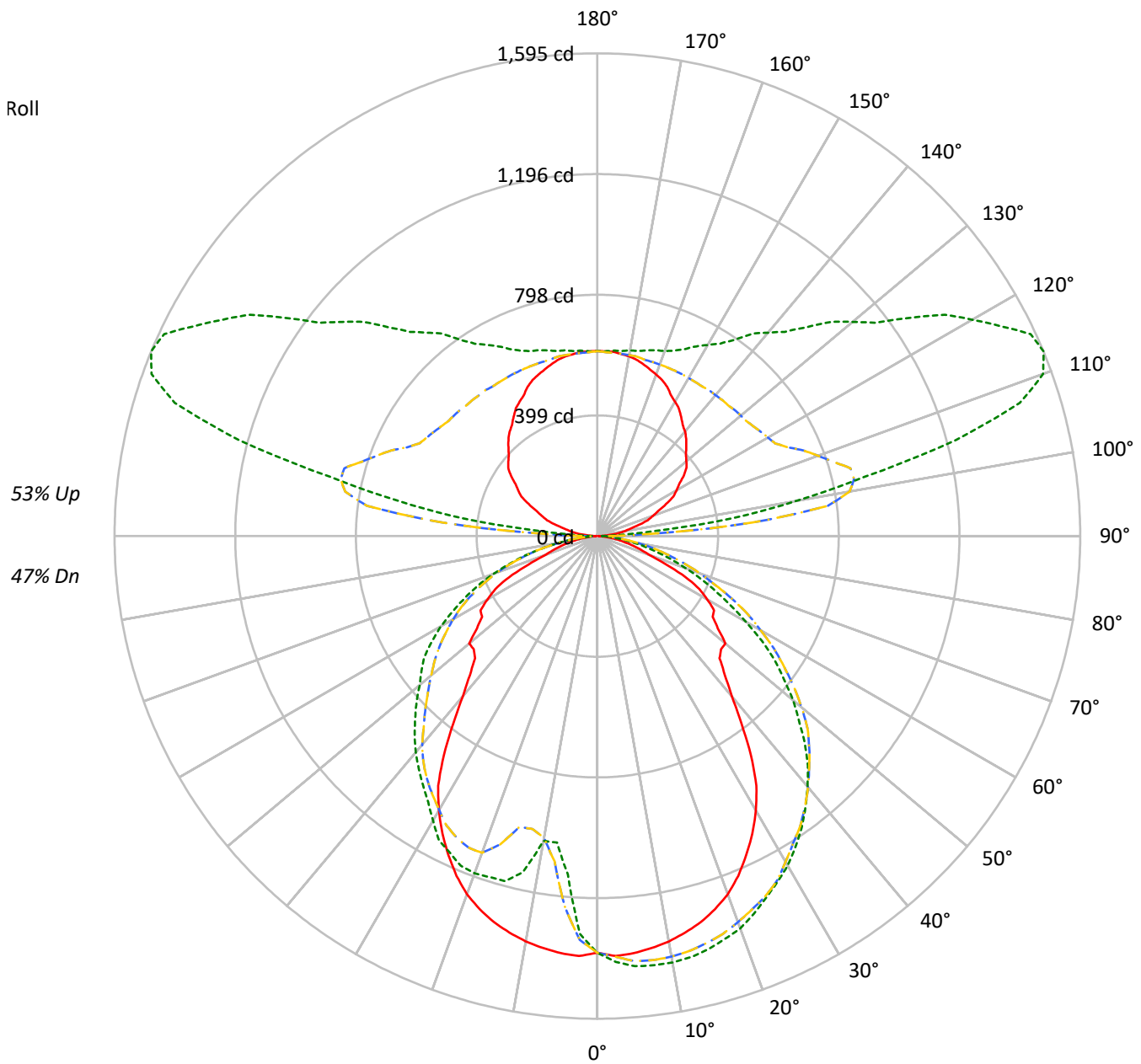
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7534.0 lumens
Efficiency: N/A
Efficacy: 129.9 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: General Diffuse

Input Watts (W): 58
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
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	1.6
10°-20°	352.9	4.7
20°-30°	545.5	7.2
30°-40°	651.3	8.6
40°-50°	655.1	8.7
50°-60°	570.0	7.6
60°-70°	404.1	5.4
70°-80°	213.8	2.8
80°-90°	55.6	0.7
90°-100°	297.9	4.0
100°-110°	783.1	10.4
110°-120°	812.0	10.8
120°-130°	651.3	8.6
130°-140°	511.1	6.8
140°-150°	392.3	5.2
150°-160°	282.5	3.7
160°-170°	172.8	2.3
170°-180°	58.4	0.8
0°-30°	1022.8	13.6
0°-40°	1674.0	22.2
0°-60°	2899.1	38.5
0°-90°	3572.6	47.4
90°-120°	1893.0	25.1
90°-150°	3447.6	45.8
90°-180°	3961.0	52.6
0°-180°	7534.0	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°	4	16	4	16	4	4
95°	39	180	39	180	39	44
105°	141	1226	141	1226	141	150
115°	250	1579	250	1579	250	247
125°	349	1257	349	1257	349	309
135°	416	976	416	976	416	321
145°	482	792	482	792	482	302
155°	545	682	545	682	545	250
165°	588	635	588	635	588	166
175°	611	615	611	615	611	58
180°	611	611	611	611	611	



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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°	4.1	7.4	10.6	11.4	18.0	26.8	31.2	27.7	20.8	15.6	15.6
92.5°	16.4	44.3	72.2	79.2	111.3	154.1	175.5	153.8	110.4	77.9	74.8
95°	39.3	90.4	141.5	154.2	273.8	433.2	513.0	457.8	347.4	264.5	255.2
97.5°	68.0	113.1	158.2	169.4	368.9	634.8	767.7	732.8	663.0	610.6	592.8
100°	90.2	131.0	171.9	182.1	403.5	698.6	846.1	848.7	853.7	857.5	836.2
102.5°	109.1	147.2	185.3	194.8	419.3	718.6	868.3	912.7	1001.7	1068.3	1050.1
105°	141.1	173.3	205.6	213.7	431.1	720.9	865.8	965.5	1164.9	1314.4	1304.7
107.5°	173.9	204.0	234.1	241.6	433.2	688.7	816.5	955.6	1233.8	1442.4	1444.8
110°	196.0	223.2	250.3	257.1	429.9	660.3	775.5	931.0	1242.0	1475.2	1485.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	217.8	243.6	269.5	276.0	430.1	635.5	738.2	897.4	1215.5	1454.3	1469.9
115°	250.5	274.4	298.3	304.3	434.0	607.1	693.6	846.9	1153.4	1383.4	1405.0
117.5°	283.0	304.7	326.4	331.8	442.1	589.2	662.8	801.1	1077.8	1285.3	1309.4
120°	301.8	322.2	342.6	347.8	448.6	583.2	650.5	776.9	1029.7	1219.3	1242.8
122.5°	320.4	341.0	361.6	366.7	458.1	580.1	641.0	754.8	982.5	1153.2	1176.3
125°	348.6	367.4	386.1	390.9	470.8	577.4	630.7	727.5	920.8	1065.9	1087.2
127.5°	371.5	390.5	409.5	414.2	483.5	575.9	622.2	705.2	871.2	995.8	1013.7
130°	383.8	404.3	424.7	429.8	492.8	576.9	618.9	692.9	840.7	951.5	968.1
132.5°	396.6	417.0	437.4	442.5	500.3	577.4	616.0	682.1	814.4	913.7	928.6
135°	415.5	434.0	452.7	457.3	508.6	576.9	611.1	666.5	777.3	860.4	873.2
137.5°	434.7	453.2	471.5	476.1	520.8	580.5	610.2	657.1	750.7	821.0	831.5
140°	450.7	467.7	484.6	488.9	528.4	581.0	607.4	647.8	728.8	789.5	799.3
142.5°	463.0	478.7	494.4	498.3	534.7	583.1	607.4	642.9	714.0	767.3	775.8
145°	481.9	495.6	509.2	512.6	542.9	583.2	603.3	632.4	690.5	734.1	740.5
147.5°	500.8	514.1	527.3	530.7	554.9	587.2	603.3	626.2	672.0	706.3	711.6
150°	513.0	525.0	537.1	540.1	561.2	589.3	603.3	622.7	661.2	690.2	694.4
152.5°	525.7	534.8	544.0	546.2	565.3	590.6	603.3	619.8	652.7	677.5	680.7
155°	544.7	551.4	558.2	559.9	574.3	593.7	603.3	616.4	642.7	662.3	664.5
157.5°	558.6	565.2	571.7	573.4	583.3	596.6	603.3	613.5	633.9	649.2	650.7
160°	568.0	573.2	578.2	579.5	587.5	598.0	603.3	612.1	629.6	642.7	643.6
162.5°	577.4	581.2	585.1	586.1	591.8	599.5	603.3	610.7	625.4	636.5	637.3
165°	587.7	591.1	594.6	595.4	598.1	601.6	603.3	608.7	619.2	627.1	628.0
167.5°	597.1	598.8	600.5	600.9	603.0	605.9	607.4	610.8	617.7	623.0	623.3
170°	603.3	604.9	606.6	607.0	607.1	607.3	607.4	610.8	617.7	623.0	623.0
172.5°	606.6	607.0	607.3	607.4	607.4	607.4	607.4	610.1	615.6	619.7	619.4
175°	611.1	611.1	611.1	611.1	609.8	608.2	607.4	609.2	612.6	615.2	615.2
177.5°	611.1	611.1	611.1	611.1	610.1	608.9	608.2	609.5	612.3	614.4	614.0
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



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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°	15.6	15.6	15.6	15.6	15.6	20.8	27.7	31.2	26.8	18.0	11.4
92.5°	62.4	50.0	62.4	74.8	77.9	110.4	153.8	175.5	154.1	111.3	79.2
95°	217.6	180.0	217.6	255.2	264.5	347.4	457.8	513.0	433.2	273.8	154.2
97.5°	521.3	449.9	521.3	592.8	610.6	663.0	732.8	767.7	634.8	368.9	169.4
100°	751.1	666.0	751.1	836.2	857.5	853.7	848.7	846.1	698.6	403.5	182.1
102.5°	977.2	904.4	977.2	1050.1	1068.3	1001.7	912.7	868.3	718.6	419.3	194.8
105°	1265.4	1226.3	1265.4	1304.7	1314.4	1164.9	965.5	865.8	720.9	431.1	213.7
107.5°	1454.3	1463.7	1454.3	1444.8	1442.4	1233.8	955.6	816.5	688.7	433.2	241.6
110°	1526.2	1567.0	1526.2	1485.4	1475.2	1242.0	931.0	775.5	660.3	429.9	257.1



TEST NUMBER: P935283

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

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1532.6	1595.3	1532.6	1469.9	1454.3	1215.5	897.4	738.2	635.5	430.1	276.0
115°	1492.0	1579.0	1492.0	1405.0	1383.4	1153.4	846.9	693.6	607.1	434.0	304.3
117.5°	1405.8	1502.3	1405.8	1309.4	1285.3	1077.8	801.1	662.8	589.2	442.1	331.8
120°	1336.4	1430.1	1336.4	1242.8	1219.3	1029.7	776.9	650.5	583.2	448.6	347.8
122.5°	1268.8	1361.2	1268.8	1176.3	1153.2	982.5	754.8	641.0	580.1	458.1	366.7
125°	1172.3	1257.4	1172.3	1087.2	1065.9	920.8	727.5	630.7	577.4	470.8	390.9
127.5°	1085.6	1157.4	1085.6	1013.7	995.8	871.2	705.2	622.2	575.9	483.5	414.2
130°	1034.4	1100.8	1034.4	968.1	951.5	840.7	692.9	618.9	576.9	492.8	429.8
132.5°	988.0	1047.4	988.0	928.6	913.7	814.4	682.1	616.0	577.4	500.3	442.5
135°	924.4	975.6	924.4	873.2	860.4	777.3	666.5	611.1	576.9	508.6	457.3
137.5°	873.5	915.4	873.5	831.5	821.0	750.7	657.1	610.2	580.5	520.8	476.1
140°	838.5	877.6	838.5	799.3	789.5	728.8	647.8	607.4	581.0	528.4	488.9
142.5°	809.5	843.2	809.5	775.8	767.3	714.0	642.9	607.4	583.1	534.7	498.3
145°	766.0	791.6	766.0	740.5	734.1	690.5	632.4	603.3	583.2	542.9	512.6
147.5°	732.7	753.8	732.7	711.6	706.3	672.0	626.2	603.3	587.2	554.9	530.7
150°	711.6	728.8	711.6	694.4	690.2	661.2	622.7	603.3	589.3	561.2	540.1
152.5°	693.7	706.7	693.7	680.7	677.5	652.7	619.8	603.3	590.6	565.3	546.2
155°	673.0	681.6	673.0	664.5	662.3	642.7	616.4	603.3	593.7	574.3	559.9
157.5°	656.8	662.8	656.8	650.7	649.2	633.9	613.5	603.3	596.6	583.3	573.4
160°	647.0	650.5	647.0	643.6	642.7	629.6	612.1	603.3	598.0	587.5	579.5
162.5°	640.6	643.9	640.6	637.3	636.5	625.4	610.7	603.3	599.5	591.8	586.1
165°	631.4	634.9	631.4	628.0	627.1	619.2	608.7	603.3	601.6	598.1	595.4
167.5°	624.7	626.2	624.7	623.3	623.0	617.7	610.8	607.4	605.9	603.0	600.9
170°	623.0	623.0	623.0	623.0	623.0	617.7	610.8	607.4	607.3	607.1	607.0
172.5°	618.1	616.8	618.1	619.4	619.7	615.6	610.1	607.4	607.4	607.4	607.4
175°	615.2	615.2	615.2	615.2	615.2	612.6	609.2	607.4	608.2	609.8	611.1
177.5°	612.6	611.1	612.6	614.0	614.4	612.3	609.5	608.2	608.9	610.1	611.1
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935283

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-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°	10.6	7.4	4.1	7.4	10.6	11.4	18.0	26.8	31.2	27.7	20.8
92.5°	72.2	44.3	16.4	44.3	72.2	79.2	111.3	154.1	175.5	153.8	110.4
95°	141.5	90.4	39.3	90.4	141.5	154.2	273.8	433.2	513.0	457.8	347.4
97.5°	158.2	113.1	68.0	113.1	158.2	169.4	368.9	634.8	767.7	732.8	663.0
100°	171.9	131.0	90.2	131.0	171.9	182.1	403.5	698.6	846.1	848.7	853.7
102.5°	185.3	147.2	109.1	147.2	185.3	194.8	419.3	718.6	868.3	912.7	1001.7
105°	205.6	173.3	141.1	173.3	205.6	213.7	431.1	720.9	865.8	965.5	1164.9
107.5°	234.1	204.0	173.9	204.0	234.1	241.6	433.2	688.7	816.5	955.6	1233.8
110°	250.3	223.2	196.0	223.2	250.3	257.1	429.9	660.3	775.5	931.0	1242.0



TEST NUMBER: P935283

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

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	269.5	243.6	217.8	243.6	269.5	276.0	430.1	635.5	738.2	897.4	1215.5
115°	298.3	274.4	250.5	274.4	298.3	304.3	434.0	607.1	693.6	846.9	1153.4
117.5°	326.4	304.7	283.0	304.7	326.4	331.8	442.1	589.2	662.8	801.1	1077.8
120°	342.6	322.2	301.8	322.2	342.6	347.8	448.6	583.2	650.5	776.9	1029.7
122.5°	361.6	341.0	320.4	341.0	361.6	366.7	458.1	580.1	641.0	754.8	982.5
125°	386.1	367.4	348.6	367.4	386.1	390.9	470.8	577.4	630.7	727.5	920.8
127.5°	409.5	390.5	371.5	390.5	409.5	414.2	483.5	575.9	622.2	705.2	871.2
130°	424.7	404.3	383.8	404.3	424.7	429.8	492.8	576.9	618.9	692.9	840.7
132.5°	437.4	417.0	396.6	417.0	437.4	442.5	500.3	577.4	616.0	682.1	814.4
135°	452.7	434.0	415.5	434.0	452.7	457.3	508.6	576.9	611.1	666.5	777.3
137.5°	471.5	453.2	434.7	453.2	471.5	476.1	520.8	580.5	610.2	657.1	750.7
140°	484.6	467.7	450.7	467.7	484.6	488.9	528.4	581.0	607.4	647.8	728.8
142.5°	494.4	478.7	463.0	478.7	494.4	498.3	534.7	583.1	607.4	642.9	714.0
145°	509.2	495.6	481.9	495.6	509.2	512.6	542.9	583.2	603.3	632.4	690.5
147.5°	527.3	514.1	500.8	514.1	527.3	530.7	554.9	587.2	603.3	626.2	672.0
150°	537.1	525.0	513.0	525.0	537.1	540.1	561.2	589.3	603.3	622.7	661.2
152.5°	544.0	534.8	525.7	534.8	544.0	546.2	565.3	590.6	603.3	619.8	652.7
155°	558.2	551.4	544.7	551.4	558.2	559.9	574.3	593.7	603.3	616.4	642.7
157.5°	571.7	565.2	558.6	565.2	571.7	573.4	583.3	596.6	603.3	613.5	633.9
160°	578.2	573.2	568.0	573.2	578.2	579.5	587.5	598.0	603.3	612.1	629.6
162.5°	585.1	581.2	577.4	581.2	585.1	586.1	591.8	599.5	603.3	610.7	625.4
165°	594.6	591.1	587.7	591.1	594.6	595.4	598.1	601.6	603.3	608.7	619.2
167.5°	600.5	598.8	597.1	598.8	600.5	600.9	603.0	605.9	607.4	610.8	617.7
170°	606.6	604.9	603.3	604.9	606.6	607.0	607.1	607.3	607.4	610.8	617.7
172.5°	607.3	607.0	606.6	607.0	607.3	607.4	607.4	607.4	607.4	610.1	615.6
175°	611.1	611.1	611.1	611.1	611.1	611.1	609.8	608.2	607.4	609.2	612.6
177.5°	611.1	611.1	611.1	611.1	611.1	611.1	610.1	608.9	608.2	609.5	612.3
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935283

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	20.8	27.7	31.2	26.8
92.5°	77.9	74.8	62.4	50.0	62.4	74.8	77.9	110.4	153.8	175.5	154.1
95°	264.5	255.2	217.6	180.0	217.6	255.2	264.5	347.4	457.8	513.0	433.2
97.5°	610.6	592.8	521.3	449.9	521.3	592.8	610.6	663.0	732.8	767.7	634.8
100°	857.5	836.2	751.1	666.0	751.1	836.2	857.5	853.7	848.7	846.1	698.6
102.5°	1068.3	1050.1	977.2	904.4	977.2	1050.1	1068.3	1001.7	912.7	868.3	718.6
105°	1314.4	1304.7	1265.4	1226.3	1265.4	1304.7	1314.4	1164.9	965.5	865.8	720.9
107.5°	1442.4	1444.8	1454.3	1463.7	1454.3	1444.8	1442.4	1233.8	955.6	816.5	688.7
110°	1475.2	1485.4	1526.2	1567.0	1526.2	1485.4	1475.2	1242.0	931.0	775.5	660.3



TEST NUMBER: P935283

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

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1454.3	1469.9	1532.6	1595.3	1532.6	1469.9	1454.3	1215.5	897.4	738.2	635.5
115°	1383.4	1405.0	1492.0	1579.0	1492.0	1405.0	1383.4	1153.4	846.9	693.6	607.1
117.5°	1285.3	1309.4	1405.8	1502.3	1405.8	1309.4	1285.3	1077.8	801.1	662.8	589.2
120°	1219.3	1242.8	1336.4	1430.1	1336.4	1242.8	1219.3	1029.7	776.9	650.5	583.2
122.5°	1153.2	1176.3	1268.8	1361.2	1268.8	1176.3	1153.2	982.5	754.8	641.0	580.1
125°	1065.9	1087.2	1172.3	1257.4	1172.3	1087.2	1065.9	920.8	727.5	630.7	577.4
127.5°	995.8	1013.7	1085.6	1157.4	1085.6	1013.7	995.8	871.2	705.2	622.2	575.9
130°	951.5	968.1	1034.4	1100.8	1034.4	968.1	951.5	840.7	692.9	618.9	576.9
132.5°	913.7	928.6	988.0	1047.4	988.0	928.6	913.7	814.4	682.1	616.0	577.4
135°	860.4	873.2	924.4	975.6	924.4	873.2	860.4	777.3	666.5	611.1	576.9
137.5°	821.0	831.5	873.5	915.4	873.5	831.5	821.0	750.7	657.1	610.2	580.5
140°	789.5	799.3	838.5	877.6	838.5	799.3	789.5	728.8	647.8	607.4	581.0
142.5°	767.3	775.8	809.5	843.2	809.5	775.8	767.3	714.0	642.9	607.4	583.1
145°	734.1	740.5	766.0	791.6	766.0	740.5	734.1	690.5	632.4	603.3	583.2
147.5°	706.3	711.6	732.7	753.8	732.7	711.6	706.3	672.0	626.2	603.3	587.2
150°	690.2	694.4	711.6	728.8	711.6	694.4	690.2	661.2	622.7	603.3	589.3
152.5°	677.5	680.7	693.7	706.7	693.7	680.7	677.5	652.7	619.8	603.3	590.6
155°	662.3	664.5	673.0	681.6	673.0	664.5	662.3	642.7	616.4	603.3	593.7
157.5°	649.2	650.7	656.8	662.8	656.8	650.7	649.2	633.9	613.5	603.3	596.6
160°	642.7	643.6	647.0	650.5	647.0	643.6	642.7	629.6	612.1	603.3	598.0
162.5°	636.5	637.3	640.6	643.9	640.6	637.3	636.5	625.4	610.7	603.3	599.5
165°	627.1	628.0	631.4	634.9	631.4	628.0	627.1	619.2	608.7	603.3	601.6
167.5°	623.0	623.3	624.7	626.2	624.7	623.3	623.0	617.7	610.8	607.4	605.9
170°	623.0	623.0	623.0	623.0	623.0	623.0	623.0	617.7	610.8	607.4	607.3
172.5°	619.7	619.4	618.1	616.8	618.1	619.4	619.7	615.6	610.1	607.4	607.4
175°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	612.6	609.2	607.4	608.2
177.5°	614.4	614.0	612.6	611.1	612.6	614.0	614.4	612.3	609.5	608.2	608.9
180°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935283

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-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°	18.0	11.4	10.6	7.4	4.1
92.5°	111.3	79.2	72.2	44.3	16.4
95°	273.8	154.2	141.5	90.4	39.3
97.5°	368.9	169.4	158.2	113.1	68.0
100°	403.5	182.1	171.9	131.0	90.2
102.5°	419.3	194.8	185.3	147.2	109.1
105°	431.1	213.7	205.6	173.3	141.1
107.5°	433.2	241.6	234.1	204.0	173.9
110°	429.9	257.1	250.3	223.2	196.0



TEST NUMBER: P935283

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	430.1	276.0	269.5	243.6	217.8
115°	434.0	304.3	298.3	274.4	250.5
117.5°	442.1	331.8	326.4	304.7	283.0
120°	448.6	347.8	342.6	322.2	301.8
122.5°	458.1	366.7	361.6	341.0	320.4
125°	470.8	390.9	386.1	367.4	348.6
127.5°	483.5	414.2	409.5	390.5	371.5
130°	492.8	429.8	424.7	404.3	383.8
132.5°	500.3	442.5	437.4	417.0	396.6
135°	508.6	457.3	452.7	434.0	415.5
137.5°	520.8	476.1	471.5	453.2	434.7
140°	528.4	488.9	484.6	467.7	450.7
142.5°	534.7	498.3	494.4	478.7	463.0
145°	542.9	512.6	509.2	495.6	481.9
147.5°	554.9	530.7	527.3	514.1	500.8
150°	561.2	540.1	537.1	525.0	513.0
152.5°	565.3	546.2	544.0	534.8	525.7
155°	574.3	559.9	558.2	551.4	544.7
157.5°	583.3	573.4	571.7	565.2	558.6
160°	587.5	579.5	578.2	573.2	568.0
162.5°	591.8	586.1	585.1	581.2	577.4
165°	598.1	595.4	594.6	591.1	587.7
167.5°	603.0	600.9	600.5	598.8	597.1
170°	607.1	607.0	606.6	604.9	603.3
172.5°	607.4	607.4	607.3	607.0	606.6
175°	609.8	611.1	611.1	611.1	611.1
177.5°	610.1	611.1	611.1	611.1	611.1
180°	611.1	611.1	611.1	611.1	611.1



TEST NUMBER: P935283
 CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-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	13.40	14.24	14.38	15.23	16.54	16.20	17.04	17.18	18.03	19.34
	3H	13.88	14.63	14.87	15.63	16.96	17.53	18.28	18.52	19.29	20.61
	4H	14.07	14.78	15.07	15.78	17.12	17.97	18.68	18.97	19.69	21.02
	6H	14.19	14.84	15.20	15.85	17.20	18.25	18.90	19.26	19.91	21.26
	8H	14.19	14.81	15.21	15.84	17.18	18.32	18.94	19.33	19.96	21.31
	12H	14.16	14.75	15.18	15.77	17.14	18.35	18.94	19.37	19.96	21.33
4H	2H	14.42	15.13	15.43	16.14	17.48	16.61	17.32	17.62	18.32	19.66
	3H	15.45	16.04	16.47	17.07	18.42	18.10	18.69	19.12	19.73	21.08
	4H	15.72	16.27	16.75	17.29	18.67	18.62	19.16	19.65	20.19	21.56
	6H	15.85	16.31	16.88	17.36	18.73	18.98	19.44	20.01	20.49	21.86
	8H	15.85	16.29	16.89	17.33	18.72	19.08	19.51	20.12	20.56	21.94
	12H	15.82	16.21	16.88	17.27	18.66	19.13	19.52	20.19	20.58	21.97
8H	4H	16.17	16.61	17.21	17.65	19.03	18.75	19.18	19.78	20.22	21.61
	6H	16.43	16.79	17.49	17.87	19.26	19.17	19.53	20.23	20.62	22.00
	8H	16.47	16.79	17.54	17.86	19.26	19.32	19.64	20.39	20.70	22.11
	12H	16.46	16.73	17.53	17.80	19.24	19.41	19.69	20.48	20.75	22.20
12H	4H	16.17	16.57	17.23	17.62	19.01	18.71	19.10	19.76	20.16	21.55
	6H	16.49	16.81	17.56	17.87	19.28	19.17	19.49	20.24	20.55	21.96
	8H	16.56	16.83	17.63	17.90	19.34	19.32	19.60	20.40	20.67	22.11