

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: P934292

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934292
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

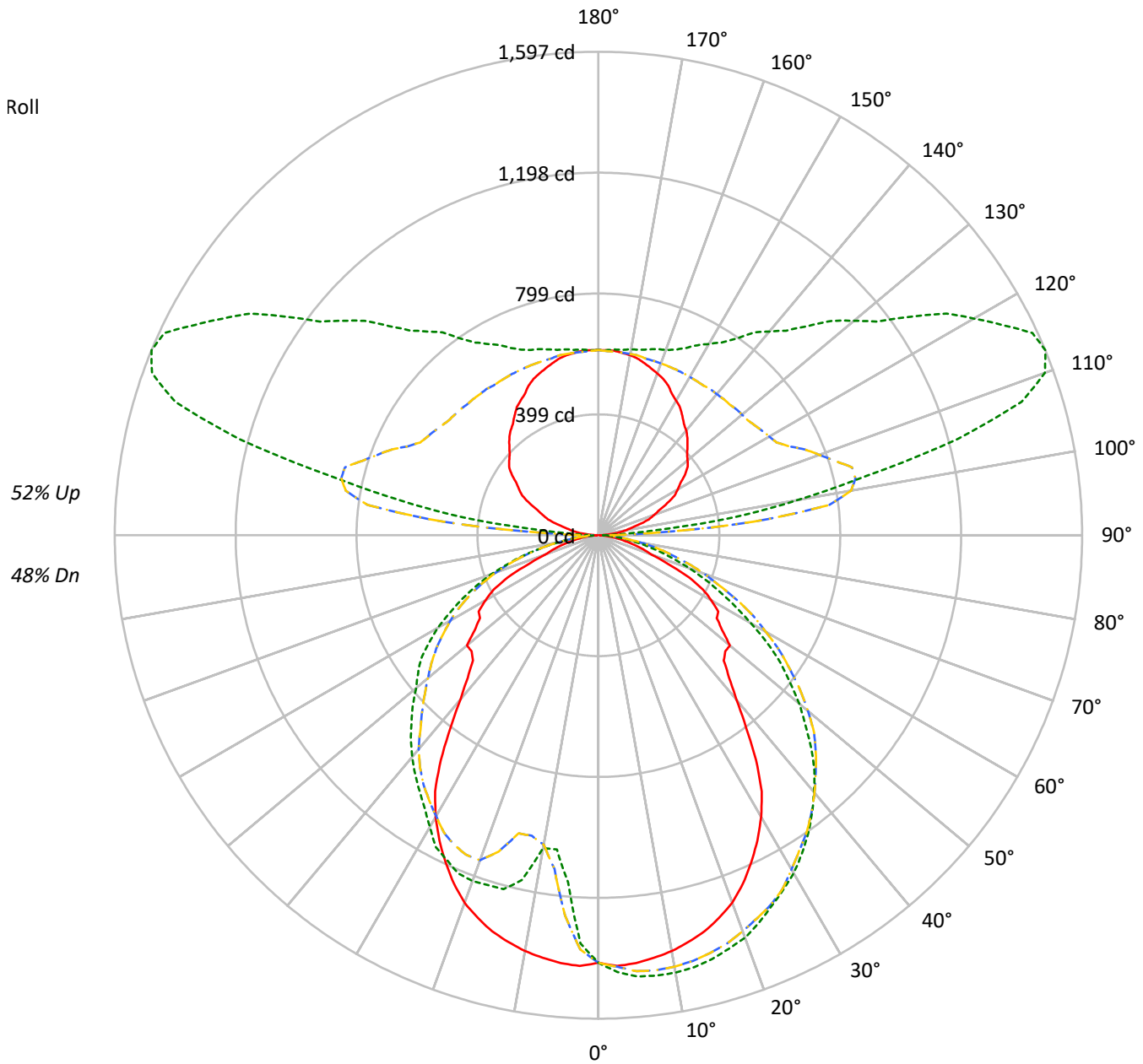
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7629.4 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 56.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934292
CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

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									
RC	80									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	50	30	10	0													
RCR																																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48	48	48	48													
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41	41	41	41													
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34	34	34	34													
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29	29	29	29													
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25	25	25	25													
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21	21	21	21													
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19	19	19	19													
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17	17	17	17													
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15	15	15	15													
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13	13	13	13													
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12	12	12	12													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6552	6552	6552	6552
5°	6601	6613	6601	5200
10°	6556	6515	6556	4657
15°	6485	6373	6485	5322
20°	6349	6206	6349	5333
25°	6072	5962	6072	5220
30°	5713	5760	5713	4972
35°	5093	5504	5093	4699
40°	4244	5202	4244	4494
45°	3792	4849	3792	4256
50°	4028	4429	4028	4018
55°	3790	3975	3790	3881
60°	3907	3376	3907	3554
65°	3542	2791	3542	3120
70°	2452	2224	2452	2615
75°	2151	1645	2151	1969
80°	1732	1087	1732	1183
85°	997	576	997	489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5812 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.7
10°-20°	361.9	4.7
20°-30°	559.4	7.3
30°-40°	667.9	8.8
40°-50°	671.8	8.8
50°-60°	584.5	7.7
60°-70°	414.4	5.4
70°-80°	219.3	2.9
80°-90°	56.9	0.7
90°-100°	298.2	3.9
100°-110°	784.0	10.3
110°-120°	812.9	10.7
120°-130°	652.0	8.5
130°-140°	511.6	6.7
140°-150°	392.7	5.1
150°-160°	282.8	3.7
160°-170°	173.0	2.3
170°-180°	58.5	0.8
0°-30°	1048.8	13.7
0°-40°	1716.7	22.5
0°-60°	2973.0	39.0
0°-90°	3663.6	48.0
90°-120°	1895.1	24.8
90°-150°	3451.4	45.2
90°-180°	3966.0	52.0
0°-180°	7629.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1412	1412	1412	1412	1412	
5°	1419	1463	1419	1150	1419	135
15°	1355	1450	1355	1210	1355	381
25°	1193	1352	1193	1184	1193	548
35°	907	1206	907	1030	907	561
45°	585	994	585	872	585	469
55°	477	734	477	716	477	438
65°	331	442	331	494	331	317
75°	126	210	126	251	126	132
85°	21	54	21	45	21	29
90°	4	16	4	16	4	4
95°	39	180	39	180	39	44
105°	141	1228	141	1228	141	150
115°	251	1581	251	1581	251	248
125°	349	1259	349	1259	349	310
135°	416	977	416	977	416	322
145°	482	792	482	792	482	302
155°	545	682	545	682	545	251
165°	588	636	588	636	588	166
175°	612	616	612	616	612	58
180°	612	612	612	612	612	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1424.1	1424.1	1432.1	1434.8	1434.8	1430.8	1426.8	1430.8	1442.8	1446.8	1445.5
5°	1418.8	1429.5	1444.2	1446.8	1449.5	1448.2	1445.5	1448.2	1461.5	1464.2	1465.5
7.5°	1408.0	1428.2	1446.8	1450.9	1454.9	1450.9	1449.5	1452.2	1465.5	1468.2	1468.2
10°	1394.7	1422.8	1444.2	1446.8	1450.9	1446.8	1446.8	1452.2	1465.5	1468.2	1469.5
12.5°	1376.0	1414.7	1434.8	1437.4	1442.8	1441.5	1440.1	1445.5	1458.8	1461.5	1461.5
15°	1354.7	1400.1	1418.8	1421.4	1430.8	1428.2	1428.2	1433.4	1448.2	1452.2	1450.9
17.5°	1325.3	1381.4	1402.8	1406.8	1413.4	1412.1	1413.4	1418.8	1432.1	1434.8	1436.1
20°	1291.8	1356.0	1381.4	1385.3	1392.0	1392.0	1392.0	1398.7	1412.1	1417.4	1417.4
22.5°	1246.4	1329.3	1356.0	1358.6	1366.7	1366.7	1369.3	1378.7	1390.7	1392.0	1392.0
25°	1193.0	1299.9	1322.6	1330.6	1338.6	1342.6	1346.6	1352.0	1356.0	1354.7	1356.0
27.5°	1136.9	1262.4	1291.8	1297.2	1307.8	1311.9	1317.2	1318.6	1319.9	1323.9	1321.3
30°	1074.1	1210.3	1254.5	1259.8	1277.2	1279.9	1274.5	1277.2	1283.8	1286.5	1289.2
32.5°	1003.3	1132.9	1215.7	1227.8	1243.8	1235.7	1234.4	1238.4	1249.1	1249.1	1251.8
35°	907.1	1072.8	1179.7	1190.3	1202.4	1193.0	1198.4	1199.7	1206.4	1210.3	1209.0
37.5°	801.6	1020.7	1142.2	1150.3	1159.6	1147.6	1155.6	1159.6	1164.9	1162.2	1162.2
40°	708.1	939.1	1098.2	1103.5	1111.5	1102.2	1110.1	1112.8	1115.5	1112.8	1111.5
42.5°	638.5	849.7	1051.4	1058.1	1052.7	1059.4	1062.0	1067.4	1063.4	1058.1	1058.1
45°	585.2	825.6	1000.6	1008.6	1000.6	1011.3	1015.3	1015.3	1003.3	1000.6	999.3
47.5°	567.8	777.5	949.9	949.9	945.8	959.2	965.9	956.6	944.5	940.5	940.5
50°	566.4	724.1	880.4	875.1	893.7	909.7	903.1	893.7	884.3	869.7	869.7
52.5°	514.3	658.7	790.9	810.9	840.3	849.7	838.9	829.7	813.6	806.9	801.6
55°	476.9	590.5	709.4	749.5	780.2	792.2	772.2	762.8	738.7	734.7	732.1
57.5°	468.9	491.6	634.6	685.3	722.7	721.4	709.4	692.0	672.0	668.0	666.6
60°	430.2	355.4	554.4	614.5	653.3	649.3	638.5	622.5	603.9	601.2	598.5
62.5°	390.1	257.9	463.5	531.7	586.4	585.2	575.8	551.8	538.3	531.7	526.4
65°	331.3	216.4	330.0	442.2	521.0	523.7	503.7	486.2	471.6	463.5	462.2
67.5°	252.5	176.4	223.1	368.7	458.3	455.6	430.2	422.2	403.5	399.5	391.4
70°	187.0	117.5	155.0	299.3	396.8	390.1	370.0	360.8	343.3	334.0	328.7
72.5°	155.0	94.8	113.5	232.5	334.0	326.0	308.6	297.9	283.3	275.2	269.8
75°	125.6	100.2	86.9	172.3	271.2	265.8	249.8	239.1	227.1	216.4	217.7
77.5°	92.2	93.5	69.4	126.9	215.1	207.1	197.7	184.4	179.0	168.3	168.3
80°	69.4	73.5	52.1	86.9	155.0	155.0	146.9	137.6	128.3	122.9	122.9
82.5°	46.7	46.7	38.7	54.8	105.6	101.5	96.2	93.5	88.1	85.5	85.5
85°	21.4	26.7	24.0	33.4	57.5	60.2	60.2	57.5	56.1	53.5	54.8
87.5°	6.7	12.1	14.7	18.7	29.4	30.8	32.1	32.1	32.1	33.4	33.4
90°	4.1	7.4	10.7	11.5	18.0	26.8	31.2	27.7	20.8	15.6	15.6
92.5°	16.4	44.3	72.3	79.3	111.5	154.3	175.7	154.0	110.6	78.0	74.9
95°	39.4	90.5	141.6	154.4	274.1	433.8	513.6	458.4	347.8	264.8	255.5
97.5°	68.1	113.1	158.3	169.5	369.2	635.4	768.6	733.7	663.7	611.3	593.4
100°	90.3	131.2	172.0	182.3	403.9	699.3	847.0	849.6	854.7	858.5	837.1
102.5°	109.3	147.4	185.5	195.0	419.7	719.4	869.2	913.7	1002.8	1069.5	1051.3
105°	141.2	173.5	205.9	213.9	431.6	721.7	866.7	966.5	1166.2	1315.9	1306.1
107.5°	174.1	204.2	234.3	241.8	433.7	689.5	817.4	956.7	1235.1	1444.0	1446.4
110°	196.2	223.4	250.7	257.5	430.5	661.0	776.4	932.1	1243.3	1476.8	1487.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	218.0	243.9	269.8	276.3	430.6	636.2	739.0	898.3	1216.9	1455.9	1471.6
115°	250.9	274.8	298.7	304.7	434.6	607.8	694.3	847.8	1154.7	1384.8	1406.6
117.5°	283.3	305.0	326.7	332.2	442.6	589.8	663.4	802.0	1079.0	1286.7	1310.8
120°	302.2	322.6	343.1	348.2	449.2	583.9	651.2	777.7	1030.8	1220.6	1244.0
122.5°	320.6	341.2	361.8	367.0	458.6	580.7	641.7	755.7	983.6	1154.6	1177.7
125°	349.0	367.7	386.5	391.2	471.3	578.1	631.5	728.3	921.9	1067.1	1088.4
127.5°	372.0	390.9	409.9	414.6	484.1	576.6	622.8	706.0	872.2	996.9	1014.8
130°	384.3	404.7	425.2	430.3	493.3	577.5	619.5	693.5	841.5	952.5	969.1
132.5°	397.0	417.4	437.9	443.0	500.9	578.1	616.7	683.0	815.4	914.7	929.6
135°	415.9	434.6	453.1	457.8	509.1	577.5	611.7	667.2	778.2	861.3	874.2
137.5°	435.3	453.7	472.1	476.7	521.4	581.1	610.9	657.9	751.7	822.0	832.5
140°	451.2	468.2	485.2	489.4	529.0	581.7	608.1	648.6	729.6	790.3	800.1
142.5°	463.5	479.2	494.9	498.8	535.3	583.8	608.1	643.6	714.8	768.2	776.7
145°	482.5	496.1	509.9	513.2	543.5	583.9	604.0	633.1	691.3	734.9	741.3
147.5°	501.3	514.6	528.0	531.3	555.5	587.8	604.0	626.9	672.6	707.0	712.2
150°	513.6	525.7	537.7	540.7	561.8	589.9	604.0	623.3	662.0	691.0	695.3
152.5°	526.4	535.5	544.6	546.9	565.9	591.3	604.0	620.5	653.5	678.3	681.6
155°	545.2	552.0	558.8	560.4	575.0	594.3	604.0	617.1	643.3	663.0	665.2
157.5°	559.2	565.7	572.3	574.0	584.0	597.3	604.0	614.1	634.6	649.9	651.4
160°	568.6	573.8	578.9	580.2	588.1	598.7	604.0	612.7	630.2	643.3	644.2
162.5°	578.1	582.0	585.7	586.7	592.5	600.2	604.0	611.3	626.2	637.2	638.0
165°	588.3	591.8	595.2	596.1	598.7	602.2	604.0	609.3	619.8	627.8	628.7
167.5°	597.8	599.4	601.1	601.5	603.7	606.6	608.1	611.5	618.5	623.7	624.1
170°	604.0	605.6	607.3	607.7	607.8	608.0	608.1	611.5	618.5	623.7	623.7
172.5°	607.3	607.7	608.0	608.1	608.1	608.1	608.1	610.8	616.3	620.4	620.1
175°	611.7	611.7	611.7	611.7	610.5	608.9	608.1	609.8	613.2	615.8	615.8
177.5°	611.7	611.7	611.7	611.7	610.7	609.5	608.9	610.2	612.9	615.0	614.6
180°	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1448.2	1444.2	1448.2	1445.5	1446.8	1442.8	1430.8	1426.8	1430.8	1434.8	1434.8
5°	1465.5	1462.8	1465.5	1465.5	1464.2	1461.5	1448.2	1445.5	1448.2	1449.5	1446.8
7.5°	1470.9	1466.9	1470.9	1468.2	1468.2	1465.5	1452.2	1449.5	1450.9	1454.9	1450.9
10°	1470.9	1466.9	1470.9	1469.5	1468.2	1465.5	1452.2	1446.8	1446.8	1450.9	1446.8
12.5°	1464.2	1461.5	1464.2	1461.5	1461.5	1458.8	1445.5	1440.1	1441.5	1442.8	1437.4
15°	1453.5	1449.5	1453.5	1450.9	1452.2	1448.2	1433.4	1428.2	1428.2	1430.8	1421.4
17.5°	1437.4	1432.1	1437.4	1436.1	1434.8	1432.1	1418.8	1413.4	1412.1	1413.4	1406.8
20°	1418.8	1414.7	1418.8	1417.4	1417.4	1412.1	1398.7	1392.0	1392.0	1392.0	1385.3
22.5°	1389.4	1385.3	1389.4	1392.0	1392.0	1390.7	1378.7	1369.3	1366.7	1366.7	1358.6
25°	1356.0	1352.0	1356.0	1356.0	1354.7	1356.0	1352.0	1346.6	1342.6	1338.6	1330.6
27.5°	1323.9	1321.3	1323.9	1321.3	1323.9	1319.9	1318.6	1317.2	1311.9	1307.8	1297.2
30°	1291.8	1289.2	1291.8	1289.2	1286.5	1283.8	1277.2	1274.5	1279.9	1277.2	1259.8
32.5°	1251.8	1249.1	1251.8	1251.8	1249.1	1249.1	1238.4	1234.4	1235.7	1243.8	1227.8
35°	1210.3	1206.4	1210.3	1209.0	1210.3	1206.4	1199.7	1198.4	1193.0	1202.4	1190.3
37.5°	1162.2	1158.2	1162.2	1162.2	1162.2	1164.9	1159.6	1155.6	1147.6	1159.6	1150.3
40°	1112.8	1107.5	1112.8	1111.5	1112.8	1115.5	1112.8	1110.1	1102.2	1111.5	1103.5
42.5°	1056.8	1055.4	1056.8	1058.1	1058.1	1063.4	1067.4	1062.0	1059.4	1052.7	1058.1
45°	996.6	993.9	996.6	999.3	1000.6	1003.3	1015.3	1015.3	1011.3	1000.6	1008.6
47.5°	932.5	925.8	932.5	940.5	940.5	944.5	956.6	965.9	959.2	945.8	949.9
50°	864.3	865.7	864.3	869.7	869.7	884.3	893.7	903.1	909.7	893.7	875.1
52.5°	797.6	796.2	797.6	801.6	806.9	813.6	829.7	838.9	849.7	840.3	810.9
55°	730.8	733.5	730.8	732.1	734.7	738.7	762.8	772.2	792.2	780.2	749.5
57.5°	663.9	659.9	663.9	666.6	668.0	672.0	692.0	709.4	721.4	722.7	685.3
60°	586.4	581.2	586.4	598.5	601.2	603.9	622.5	638.5	649.3	653.3	614.5
62.5°	518.3	509.0	518.3	526.4	531.7	538.3	551.8	575.8	585.2	586.4	531.7
65°	446.2	442.2	446.2	462.2	463.5	471.6	486.2	503.7	523.7	521.0	442.2
67.5°	380.8	380.8	380.8	391.4	399.5	403.5	422.2	430.2	455.6	458.3	368.7
70°	320.6	319.3	320.6	328.7	334.0	343.3	360.8	370.0	390.1	396.8	299.3
72.5°	263.1	261.8	263.1	269.8	275.2	283.3	297.9	308.6	326.0	334.0	232.5
75°	212.4	209.8	212.4	217.7	216.4	227.1	239.1	249.8	265.8	271.2	172.3
77.5°	162.9	162.9	162.9	168.3	168.3	179.0	184.4	197.7	207.1	215.1	126.9
80°	121.6	120.2	121.6	122.9	122.9	128.3	137.6	146.9	155.0	155.0	86.9
82.5°	85.5	82.9	85.5	85.5	85.5	88.1	93.5	96.2	101.5	105.6	54.8
85°	53.5	53.5	53.5	54.8	53.5	56.1	57.5	60.2	60.2	57.5	33.4
87.5°	34.8	33.4	34.8	33.4	33.4	32.1	32.1	32.1	30.8	29.4	18.7
90°	15.6	15.6	15.6	15.6	15.6	20.8	27.7	31.2	26.8	18.0	11.5
92.5°	62.4	50.1	62.4	74.9	78.0	110.6	154.0	175.7	154.3	111.5	79.3
95°	217.8	180.3	217.8	255.5	264.8	347.8	458.4	513.6	433.8	274.1	154.4
97.5°	521.9	450.4	521.9	593.4	611.3	663.7	733.7	768.6	635.4	369.2	169.5
100°	752.0	666.7	752.0	837.1	858.5	854.7	849.6	847.0	699.3	403.9	182.3
102.5°	978.3	905.3	978.3	1051.3	1069.5	1002.8	913.7	869.2	719.4	419.7	195.0
105°	1266.8	1227.6	1266.8	1306.1	1315.9	1166.2	966.5	866.7	721.7	431.6	213.9
107.5°	1455.9	1465.3	1455.9	1446.4	1444.0	1235.1	956.7	817.4	689.5	433.7	241.8
110°	1527.9	1568.8	1527.9	1487.0	1476.8	1243.3	932.1	776.4	661.0	430.5	257.5



TEST NUMBER: P934292

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1534.3	1597.1	1534.3	1471.6	1455.9	1216.9	898.3	739.0	636.2	430.6	276.3
115°	1493.6	1580.7	1493.6	1406.6	1384.8	1154.7	847.8	694.3	607.8	434.6	304.7
117.5°	1407.4	1504.0	1407.4	1310.8	1286.7	1079.0	802.0	663.4	589.8	442.6	332.2
120°	1337.8	1431.7	1337.8	1244.0	1220.6	1030.8	777.7	651.2	583.9	449.2	348.2
122.5°	1270.2	1362.7	1270.2	1177.7	1154.6	983.6	755.7	641.7	580.7	458.6	367.0
125°	1173.6	1258.8	1173.6	1088.4	1067.1	921.9	728.3	631.5	578.1	471.3	391.2
127.5°	1086.7	1158.6	1086.7	1014.8	996.9	872.2	706.0	622.8	576.6	484.1	414.6
130°	1035.5	1102.0	1035.5	969.1	952.5	841.5	693.5	619.5	577.5	493.3	430.3
132.5°	989.1	1048.6	989.1	929.6	914.7	815.4	683.0	616.7	578.1	500.9	443.0
135°	925.5	976.8	925.5	874.2	861.3	778.2	667.2	611.7	577.5	509.1	457.8
137.5°	874.5	916.4	874.5	832.5	822.0	751.7	657.9	610.9	581.1	521.4	476.7
140°	839.3	878.6	839.3	800.1	790.3	729.6	648.6	608.1	581.7	529.0	489.4
142.5°	810.3	844.1	810.3	776.7	768.2	714.8	643.6	608.1	583.8	535.3	498.8
145°	766.9	792.4	766.9	741.3	734.9	691.3	633.1	604.0	583.9	543.5	513.2
147.5°	733.5	754.7	733.5	712.2	707.0	672.6	626.9	604.0	587.8	555.5	531.3
150°	712.4	729.6	712.4	695.3	691.0	662.0	623.3	604.0	589.9	561.8	540.7
152.5°	694.5	707.5	694.5	681.6	678.3	653.5	620.5	604.0	591.3	565.9	546.9
155°	673.8	682.4	673.8	665.2	663.0	643.3	617.1	604.0	594.3	575.0	560.4
157.5°	657.5	663.4	657.5	651.4	649.9	634.6	614.1	604.0	597.3	584.0	574.0
160°	647.7	651.2	647.7	644.2	643.3	630.2	612.7	604.0	598.7	588.1	580.2
162.5°	641.3	644.6	641.3	638.0	637.2	626.2	611.3	604.0	600.2	592.5	586.7
165°	632.1	635.5	632.1	628.7	627.8	619.8	609.3	604.0	602.2	598.7	596.1
167.5°	625.5	627.0	625.5	624.1	623.7	618.5	611.5	608.1	606.6	603.7	601.5
170°	623.7	623.7	623.7	623.7	623.7	618.5	611.5	608.1	608.0	607.8	607.7
172.5°	618.8	617.5	618.8	620.1	620.4	616.3	610.8	608.1	608.1	608.1	608.1
175°	615.8	615.8	615.8	615.8	615.8	613.2	609.8	608.1	608.9	610.5	611.7
177.5°	613.2	611.7	613.2	614.6	615.0	612.9	610.2	608.9	609.5	610.7	611.7
180°	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7



TEST NUMBER: P934292

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1432.1	1424.1	1424.1	1410.7	1405.5	1401.4	1394.7	1374.7	1369.3	1364.0	1372.0
5°	1444.2	1429.5	1418.8	1394.7	1374.7	1366.7	1341.3	1293.2	1261.1	1237.0	1223.7
7.5°	1446.8	1428.2	1408.0	1370.7	1322.6	1301.2	1223.7	1135.5	1111.5	1090.1	1076.8
10°	1444.2	1422.8	1394.7	1338.6	1225.1	1187.6	1110.1	1052.7	1038.0	1034.0	1038.0
12.5°	1434.8	1414.7	1376.0	1282.5	1123.5	1098.2	1052.7	1019.3	1016.6	1023.3	1059.4
15°	1418.8	1400.1	1354.7	1207.6	1067.4	1048.7	1016.6	1004.7	1019.3	1066.1	1174.3
17.5°	1402.8	1381.4	1325.3	1134.2	1024.7	1011.3	988.6	1012.6	1095.5	1158.2	1194.3
20°	1381.4	1356.0	1291.8	1080.8	993.9	982.0	971.2	1079.5	1142.2	1164.9	1184.9
22.5°	1356.0	1329.3	1246.4	1043.4	961.8	952.6	959.2	1116.8	1142.2	1158.2	1175.6
25°	1322.6	1299.9	1193.0	1014.0	936.5	925.8	951.2	1112.8	1127.6	1131.6	1166.3
27.5°	1291.8	1262.4	1136.9	987.2	905.8	901.8	957.9	1095.5	1106.2	1110.1	1147.6
30°	1254.5	1210.3	1074.1	959.2	873.7	872.4	959.2	1074.1	1071.4	1082.2	1119.5
32.5°	1215.7	1132.9	1003.3	924.5	843.0	841.6	949.9	1042.0	1039.3	1054.1	1082.2
35°	1179.7	1072.8	907.1	884.3	804.3	805.6	927.2	1004.7	1006.0	1019.3	1036.7
37.5°	1142.2	1020.7	801.6	840.3	766.8	766.8	896.4	969.9	967.2	971.2	995.3
40°	1098.2	939.1	708.1	782.9	732.1	728.1	859.0	932.5	923.1	921.8	955.2
42.5°	1051.4	849.7	638.5	706.8	692.0	686.6	813.6	887.0	869.7	873.7	916.4
45°	1000.6	825.6	585.2	597.2	650.6	646.6	764.1	834.9	822.9	833.7	877.7
47.5°	949.9	777.5	567.8	495.6	606.6	605.2	709.4	784.2	777.5	788.2	834.9
50°	880.4	724.1	566.4	424.8	557.1	562.4	643.9	734.7	734.7	744.1	793.5
52.5°	790.9	658.7	514.3	384.8	499.6	515.6	586.4	692.0	694.7	704.1	748.1
55°	709.4	590.5	476.9	354.0	431.5	466.2	530.4	647.9	653.3	662.6	702.7
57.5°	634.6	491.6	468.9	317.9	368.7	402.1	481.0	605.2	607.9	615.8	654.6
60°	554.4	355.4	430.2	279.2	313.9	339.3	435.6	554.4	563.7	569.1	602.5
62.5°	463.5	257.9	390.1	252.5	287.2	292.5	398.1	506.4	518.3	522.4	542.4
65°	330.0	216.4	331.3	229.8	259.2	260.6	358.1	456.9	467.6	474.3	488.9
67.5°	223.1	176.4	252.5	208.4	237.8	239.1	319.3	399.5	414.1	419.5	428.9
70°	155.0	117.5	187.0	185.7	213.7	216.4	277.9	347.3	360.8	364.7	370.0
72.5°	113.5	94.8	155.0	167.0	188.3	191.0	235.2	288.5	301.9	306.0	308.6
75°	86.9	100.2	125.6	145.6	160.4	161.7	192.3	235.2	244.5	247.1	248.5
77.5°	69.4	93.5	92.2	117.5	130.9	128.3	151.0	181.7	189.7	189.7	189.7
80°	52.1	73.5	69.4	84.2	96.2	93.5	108.2	129.6	132.3	135.0	133.6
82.5°	38.7	46.7	46.7	53.5	64.1	61.5	72.1	84.2	84.2	84.2	86.9
85°	24.0	26.7	21.4	28.1	36.1	34.8	40.0	45.4	46.7	46.7	44.1
87.5°	14.7	12.1	6.7	10.7	16.0	16.0	18.7	20.0	18.7	18.7	18.7
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.0	26.8	31.2	27.7	20.8
92.5°	72.3	44.3	16.4	44.3	72.3	79.3	111.5	154.3	175.7	154.0	110.6
95°	141.6	90.5	39.4	90.5	141.6	154.4	274.1	433.8	513.6	458.4	347.8
97.5°	158.3	113.1	68.1	113.1	158.3	169.5	369.2	635.4	768.6	733.7	663.7
100°	172.0	131.2	90.3	131.2	172.0	182.3	403.9	699.3	847.0	849.6	854.7
102.5°	185.5	147.4	109.3	147.4	185.5	195.0	419.7	719.4	869.2	913.7	1002.8
105°	205.9	173.5	141.2	173.5	205.9	213.9	431.6	721.7	866.7	966.5	1166.2
107.5°	234.3	204.2	174.1	204.2	234.3	241.8	433.7	689.5	817.4	956.7	1235.1
110°	250.7	223.4	196.2	223.4	250.7	257.5	430.5	661.0	776.4	932.1	1243.3



TEST NUMBER: P934292

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	269.8	243.9	218.0	243.9	269.8	276.3	430.6	636.2	739.0	898.3	1216.9
115°	298.7	274.8	250.9	274.8	298.7	304.7	434.6	607.8	694.3	847.8	1154.7
117.5°	326.7	305.0	283.3	305.0	326.7	332.2	442.6	589.8	663.4	802.0	1079.0
120°	343.1	322.6	302.2	322.6	343.1	348.2	449.2	583.9	651.2	777.7	1030.8
122.5°	361.8	341.2	320.6	341.2	361.8	367.0	458.6	580.7	641.7	755.7	983.6
125°	386.5	367.7	349.0	367.7	386.5	391.2	471.3	578.1	631.5	728.3	921.9
127.5°	409.9	390.9	372.0	390.9	409.9	414.6	484.1	576.6	622.8	706.0	872.2
130°	425.2	404.7	384.3	404.7	425.2	430.3	493.3	577.5	619.5	693.5	841.5
132.5°	437.9	417.4	397.0	417.4	437.9	443.0	500.9	578.1	616.7	683.0	815.4
135°	453.1	434.6	415.9	434.6	453.1	457.8	509.1	577.5	611.7	667.2	778.2
137.5°	472.1	453.7	435.3	453.7	472.1	476.7	521.4	581.1	610.9	657.9	751.7
140°	485.2	468.2	451.2	468.2	485.2	489.4	529.0	581.7	608.1	648.6	729.6
142.5°	494.9	479.2	463.5	479.2	494.9	498.8	535.3	583.8	608.1	643.6	714.8
145°	509.9	496.1	482.5	496.1	509.9	513.2	543.5	583.9	604.0	633.1	691.3
147.5°	528.0	514.6	501.3	514.6	528.0	531.3	555.5	587.8	604.0	626.9	672.6
150°	537.7	525.7	513.6	525.7	537.7	540.7	561.8	589.9	604.0	623.3	662.0
152.5°	544.6	535.5	526.4	535.5	544.6	546.9	565.9	591.3	604.0	620.5	653.5
155°	558.8	552.0	545.2	552.0	558.8	560.4	575.0	594.3	604.0	617.1	643.3
157.5°	572.3	565.7	559.2	565.7	572.3	574.0	584.0	597.3	604.0	614.1	634.6
160°	578.9	573.8	568.6	573.8	578.9	580.2	588.1	598.7	604.0	612.7	630.2
162.5°	585.7	582.0	578.1	582.0	585.7	586.7	592.5	600.2	604.0	611.3	626.2
165°	595.2	591.8	588.3	591.8	595.2	596.1	598.7	602.2	604.0	609.3	619.8
167.5°	601.1	599.4	597.8	599.4	601.1	601.5	603.7	606.6	608.1	611.5	618.5
170°	607.3	605.6	604.0	605.6	607.3	607.7	607.8	608.0	608.1	611.5	618.5
172.5°	608.0	607.7	607.3	607.7	608.0	608.1	608.1	608.1	608.1	610.8	616.3
175°	611.7	611.7	611.7	611.7	611.7	611.7	610.5	608.9	608.1	609.8	613.2
177.5°	611.7	611.7	611.7	611.7	611.7	611.7	610.7	609.5	608.9	610.2	612.9
180°	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7



TEST NUMBER: P934292

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1362.6	1358.6	1364.0	1349.3	1364.0	1358.6	1362.6	1372.0	1364.0	1369.3	1374.7
5°	1195.7	1189.0	1167.6	1150.3	1167.6	1189.0	1195.7	1223.7	1237.0	1261.1	1293.2
7.5°	1068.7	1063.4	1058.1	1047.4	1058.1	1063.4	1068.7	1076.8	1090.1	1111.5	1135.5
10°	1040.7	1042.0	1050.1	1048.7	1050.1	1042.0	1040.7	1038.0	1034.0	1038.0	1052.7
12.5°	1112.8	1124.9	1168.9	1166.3	1168.9	1124.9	1112.8	1059.4	1023.3	1016.6	1019.3
15°	1195.7	1199.7	1209.0	1210.3	1209.0	1199.7	1195.7	1174.3	1066.1	1019.3	1004.7
17.5°	1203.7	1205.1	1211.7	1211.7	1211.7	1205.1	1203.7	1194.3	1158.2	1095.5	1012.6
20°	1197.0	1199.7	1213.0	1215.7	1213.0	1199.7	1197.0	1184.9	1164.9	1142.2	1079.5
22.5°	1194.3	1199.7	1210.3	1209.0	1210.3	1199.7	1194.3	1175.6	1158.2	1142.2	1116.8
25°	1181.0	1181.0	1182.4	1183.6	1182.4	1181.0	1181.0	1166.3	1131.6	1127.6	1112.8
27.5°	1152.9	1155.6	1163.6	1162.2	1163.6	1155.6	1152.9	1147.6	1110.1	1106.2	1095.5
30°	1127.6	1124.9	1118.2	1112.8	1118.2	1124.9	1127.6	1119.5	1082.2	1071.4	1074.1
32.5°	1084.7	1078.1	1071.4	1067.4	1071.4	1078.1	1084.7	1082.2	1054.1	1039.3	1042.0
35°	1034.0	1035.3	1034.0	1030.0	1034.0	1035.3	1034.0	1036.7	1019.3	1006.0	1004.7
37.5°	998.0	1000.6	999.3	993.9	999.3	1000.6	998.0	995.3	971.2	967.2	969.9
40°	960.5	961.8	960.5	956.6	960.5	961.8	960.5	955.2	921.8	923.1	932.5
42.5°	924.5	923.1	919.1	916.4	919.1	923.1	924.5	916.4	873.7	869.7	887.0
45°	883.1	884.3	876.4	872.4	876.4	884.3	883.1	877.7	833.7	822.9	834.9
47.5°	841.6	841.6	834.9	831.0	834.9	841.6	841.6	834.9	788.2	777.5	784.2
50°	797.6	796.2	786.8	785.5	786.8	796.2	797.6	793.5	744.1	734.7	734.7
52.5°	746.8	746.8	748.1	750.8	748.1	746.8	746.8	748.1	704.1	694.7	692.0
55°	702.7	704.1	713.4	716.0	713.4	704.1	702.7	702.7	662.6	653.3	647.9
57.5°	657.3	657.3	663.9	663.9	663.9	657.3	657.3	654.6	615.8	607.9	605.2
60°	605.2	607.9	613.2	611.8	613.2	607.9	605.2	602.5	569.1	563.7	554.4
62.5°	550.4	553.1	554.4	551.8	554.4	553.1	550.4	542.4	522.4	518.3	506.4
65°	492.9	495.6	497.0	494.3	497.0	495.6	492.9	488.9	474.3	467.6	456.9
67.5°	434.2	432.9	431.5	436.8	431.5	432.9	434.2	428.9	419.5	414.1	399.5
70°	374.1	374.1	372.7	375.4	372.7	374.1	374.1	370.0	364.7	360.8	347.3
72.5°	310.0	308.6	313.9	310.0	313.9	308.6	310.0	308.6	306.0	301.9	288.5
75°	247.1	249.8	247.1	251.2	247.1	249.8	247.1	248.5	247.1	244.5	235.2
77.5°	188.3	191.0	188.3	188.3	188.3	191.0	188.3	189.7	189.7	189.7	181.7
80°	133.6	132.3	132.3	130.9	132.3	132.3	133.6	133.6	135.0	132.3	129.6
82.5°	85.5	84.2	84.2	86.9	84.2	84.2	85.5	86.9	84.2	84.2	84.2
85°	46.7	48.1	45.4	45.4	45.4	48.1	46.7	44.1	46.7	46.7	45.4
87.5°	17.3	16.0	16.0	16.0	16.0	16.0	17.3	18.7	18.7	18.7	20.0
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°	78.0	74.9	62.4	50.1	62.4	74.9	78.0	110.6	154.0	175.7	154.3
95°	264.8	255.5	217.8	180.3	217.8	255.5	264.8	347.8	458.4	513.6	433.8
97.5°	611.3	593.4	521.9	450.4	521.9	593.4	611.3	663.7	733.7	768.6	635.4
100°	858.5	837.1	752.0	666.7	752.0	837.1	858.5	854.7	849.6	847.0	699.3
102.5°	1069.5	1051.3	978.3	905.3	978.3	1051.3	1069.5	1002.8	913.7	869.2	719.4
105°	1315.9	1306.1	1266.8	1227.6	1266.8	1306.1	1315.9	1166.2	966.5	866.7	721.7
107.5°	1444.0	1446.4	1455.9	1465.3	1455.9	1446.4	1444.0	1235.1	956.7	817.4	689.5
110°	1476.8	1487.0	1527.9	1568.8	1527.9	1487.0	1476.8	1243.3	932.1	776.4	661.0



TEST NUMBER: P934292

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1455.9	1471.6	1534.3	1597.1	1534.3	1471.6	1455.9	1216.9	898.3	739.0	636.2
115°	1384.8	1406.6	1493.6	1580.7	1493.6	1406.6	1384.8	1154.7	847.8	694.3	607.8
117.5°	1286.7	1310.8	1407.4	1504.0	1407.4	1310.8	1286.7	1079.0	802.0	663.4	589.8
120°	1220.6	1244.0	1337.8	1431.7	1337.8	1244.0	1220.6	1030.8	777.7	651.2	583.9
122.5°	1154.6	1177.7	1270.2	1362.7	1270.2	1177.7	1154.6	983.6	755.7	641.7	580.7
125°	1067.1	1088.4	1173.6	1258.8	1173.6	1088.4	1067.1	921.9	728.3	631.5	578.1
127.5°	996.9	1014.8	1086.7	1158.6	1086.7	1014.8	996.9	872.2	706.0	622.8	576.6
130°	952.5	969.1	1035.5	1102.0	1035.5	969.1	952.5	841.5	693.5	619.5	577.5
132.5°	914.7	929.6	989.1	1048.6	989.1	929.6	914.7	815.4	683.0	616.7	578.1
135°	861.3	874.2	925.5	976.8	925.5	874.2	861.3	778.2	667.2	611.7	577.5
137.5°	822.0	832.5	874.5	916.4	874.5	832.5	822.0	751.7	657.9	610.9	581.1
140°	790.3	800.1	839.3	878.6	839.3	800.1	790.3	729.6	648.6	608.1	581.7
142.5°	768.2	776.7	810.3	844.1	810.3	776.7	768.2	714.8	643.6	608.1	583.8
145°	734.9	741.3	766.9	792.4	766.9	741.3	734.9	691.3	633.1	604.0	583.9
147.5°	707.0	712.2	733.5	754.7	733.5	712.2	707.0	672.6	626.9	604.0	587.8
150°	691.0	695.3	712.4	729.6	712.4	695.3	691.0	662.0	623.3	604.0	589.9
152.5°	678.3	681.6	694.5	707.5	694.5	681.6	678.3	653.5	620.5	604.0	591.3
155°	663.0	665.2	673.8	682.4	673.8	665.2	663.0	643.3	617.1	604.0	594.3
157.5°	649.9	651.4	657.5	663.4	657.5	651.4	649.9	634.6	614.1	604.0	597.3
160°	643.3	644.2	647.7	651.2	647.7	644.2	643.3	630.2	612.7	604.0	598.7
162.5°	637.2	638.0	641.3	644.6	641.3	638.0	637.2	626.2	611.3	604.0	600.2
165°	627.8	628.7	632.1	635.5	632.1	628.7	627.8	619.8	609.3	604.0	602.2
167.5°	623.7	624.1	625.5	627.0	625.5	624.1	623.7	618.5	611.5	608.1	606.6
170°	623.7	623.7	623.7	623.7	623.7	623.7	623.7	618.5	611.5	608.1	608.0
172.5°	620.4	620.1	618.8	617.5	618.8	620.1	620.4	616.3	610.8	608.1	608.1
175°	615.8	615.8	615.8	615.8	615.8	615.8	615.8	613.2	609.8	608.1	608.9
177.5°	615.0	614.6	613.2	611.7	613.2	614.6	615.0	612.9	610.2	608.9	609.5
180°	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7	611.7



TEST NUMBER: P934292

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1394.7	1401.4	1405.5	1410.7	1424.1
5°	1341.3	1366.7	1374.7	1394.7	1418.8
7.5°	1223.7	1301.2	1322.6	1370.7	1408.0
10°	1110.1	1187.6	1225.1	1338.6	1394.7
12.5°	1052.7	1098.2	1123.5	1282.5	1376.0
15°	1016.6	1048.7	1067.4	1207.6	1354.7
17.5°	988.6	1011.3	1024.7	1134.2	1325.3
20°	971.2	982.0	993.9	1080.8	1291.8
22.5°	959.2	952.6	961.8	1043.4	1246.4
25°	951.2	925.8	936.5	1014.0	1193.0
27.5°	957.9	901.8	905.8	987.2	1136.9
30°	959.2	872.4	873.7	959.2	1074.1
32.5°	949.9	841.6	843.0	924.5	1003.3
35°	927.2	805.6	804.3	884.3	907.1
37.5°	896.4	766.8	766.8	840.3	801.6
40°	859.0	728.1	732.1	782.9	708.1
42.5°	813.6	686.6	692.0	706.8	638.5
45°	764.1	646.6	650.6	597.2	585.2
47.5°	709.4	605.2	606.6	495.6	567.8
50°	643.9	562.4	557.1	424.8	566.4
52.5°	586.4	515.6	499.6	384.8	514.3
55°	530.4	466.2	431.5	354.0	476.9
57.5°	481.0	402.1	368.7	317.9	468.9
60°	435.6	339.3	313.9	279.2	430.2
62.5°	398.1	292.5	287.2	252.5	390.1
65°	358.1	260.6	259.2	229.8	331.3
67.5°	319.3	239.1	237.8	208.4	252.5
70°	277.9	216.4	213.7	185.7	187.0
72.5°	235.2	191.0	188.3	167.0	155.0
75°	192.3	161.7	160.4	145.6	125.6
77.5°	151.0	128.3	130.9	117.5	92.2
80°	108.2	93.5	96.2	84.2	69.4
82.5°	72.1	61.5	64.1	53.5	46.7
85°	40.0	34.8	36.1	28.1	21.4
87.5°	18.7	16.0	16.0	10.7	6.7
90°	18.0	11.5	10.7	7.4	4.1
92.5°	111.5	79.3	72.3	44.3	16.4
95°	274.1	154.4	141.6	90.5	39.4
97.5°	369.2	169.5	158.3	113.1	68.1
100°	403.9	182.3	172.0	131.2	90.3
102.5°	419.7	195.0	185.5	147.4	109.3
105°	431.6	213.9	205.9	173.5	141.2
107.5°	433.7	241.8	234.3	204.2	174.1
110°	430.5	257.5	250.7	223.4	196.2



TEST NUMBER: P934292

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	430.6	276.3	269.8	243.9	218.0
115°	434.6	304.7	298.7	274.8	250.9
117.5°	442.6	332.2	326.7	305.0	283.3
120°	449.2	348.2	343.1	322.6	302.2
122.5°	458.6	367.0	361.8	341.2	320.6
125°	471.3	391.2	386.5	367.7	349.0
127.5°	484.1	414.6	409.9	390.9	372.0
130°	493.3	430.3	425.2	404.7	384.3
132.5°	500.9	443.0	437.9	417.4	397.0
135°	509.1	457.8	453.1	434.6	415.9
137.5°	521.4	476.7	472.1	453.7	435.3
140°	529.0	489.4	485.2	468.2	451.2
142.5°	535.3	498.8	494.9	479.2	463.5
145°	543.5	513.2	509.9	496.1	482.5
147.5°	555.5	531.3	528.0	514.6	501.3
150°	561.8	540.7	537.7	525.7	513.6
152.5°	565.9	546.9	544.6	535.5	526.4
155°	575.0	560.4	558.8	552.0	545.2
157.5°	584.0	574.0	572.3	565.7	559.2
160°	588.1	580.2	578.9	573.8	568.6
162.5°	592.5	586.7	585.7	582.0	578.1
165°	598.7	596.1	595.2	591.8	588.3
167.5°	603.7	601.5	601.1	599.4	597.8
170°	607.8	607.7	607.3	605.6	604.0
172.5°	608.1	608.1	608.0	607.7	607.3
175°	610.5	611.7	611.7	611.7	611.7
177.5°	610.7	611.7	611.7	611.7	611.7
180°	611.7	611.7	611.7	611.7	611.7



TEST NUMBER: P934292
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.15	12.00	12.13	12.98	14.28	13.99	14.83	14.96	15.82	17.12
	3H	11.63	12.38	12.61	13.38	14.70	15.34	16.09	16.32	17.09	18.41
	4H	11.82	12.53	12.82	13.53	14.86	15.78	16.50	16.78	17.50	18.83
	6H	11.94	12.59	12.94	13.60	14.94	16.07	16.73	17.08	17.73	19.07
	8H	11.94	12.56	12.95	13.59	14.92	16.14	16.77	17.16	17.79	19.13
	12H	11.91	12.50	12.93	13.52	14.88	16.18	16.78	17.20	17.79	19.16
4H	2H	12.18	12.90	13.19	13.90	15.23	14.40	15.11	15.40	16.11	17.44
	3H	13.21	13.81	14.22	14.84	16.18	15.90	16.50	16.92	17.53	18.87
	4H	13.49	14.03	14.51	15.05	16.42	16.43	16.98	17.45	18.00	19.36
	6H	13.61	14.08	14.64	15.12	16.49	16.80	17.27	17.83	18.31	19.67
	8H	13.61	14.05	14.65	15.09	16.47	16.91	17.34	17.94	18.38	19.76
	12H	13.58	13.98	14.63	15.03	16.41	16.96	17.36	18.01	18.41	19.79
8H	4H	13.94	14.38	14.97	15.41	16.79	16.55	16.99	17.59	18.03	19.41
	6H	14.20	14.56	15.26	15.64	17.02	16.99	17.35	18.05	18.43	19.81
	8H	14.24	14.56	15.31	15.62	17.02	17.15	17.46	18.21	18.53	19.92
	12H	14.23	14.51	15.29	15.56	17.00	17.24	17.52	18.31	18.58	20.02
12H	4H	13.94	14.34	15.00	15.39	16.78	16.52	16.91	17.57	17.97	19.35
	6H	14.26	14.58	15.33	15.64	17.04	16.99	17.31	18.05	18.37	19.77
	8H	14.33	14.61	15.40	15.67	17.10	17.15	17.43	18.22	18.49	19.93