

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: P934268

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934268
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-93050-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

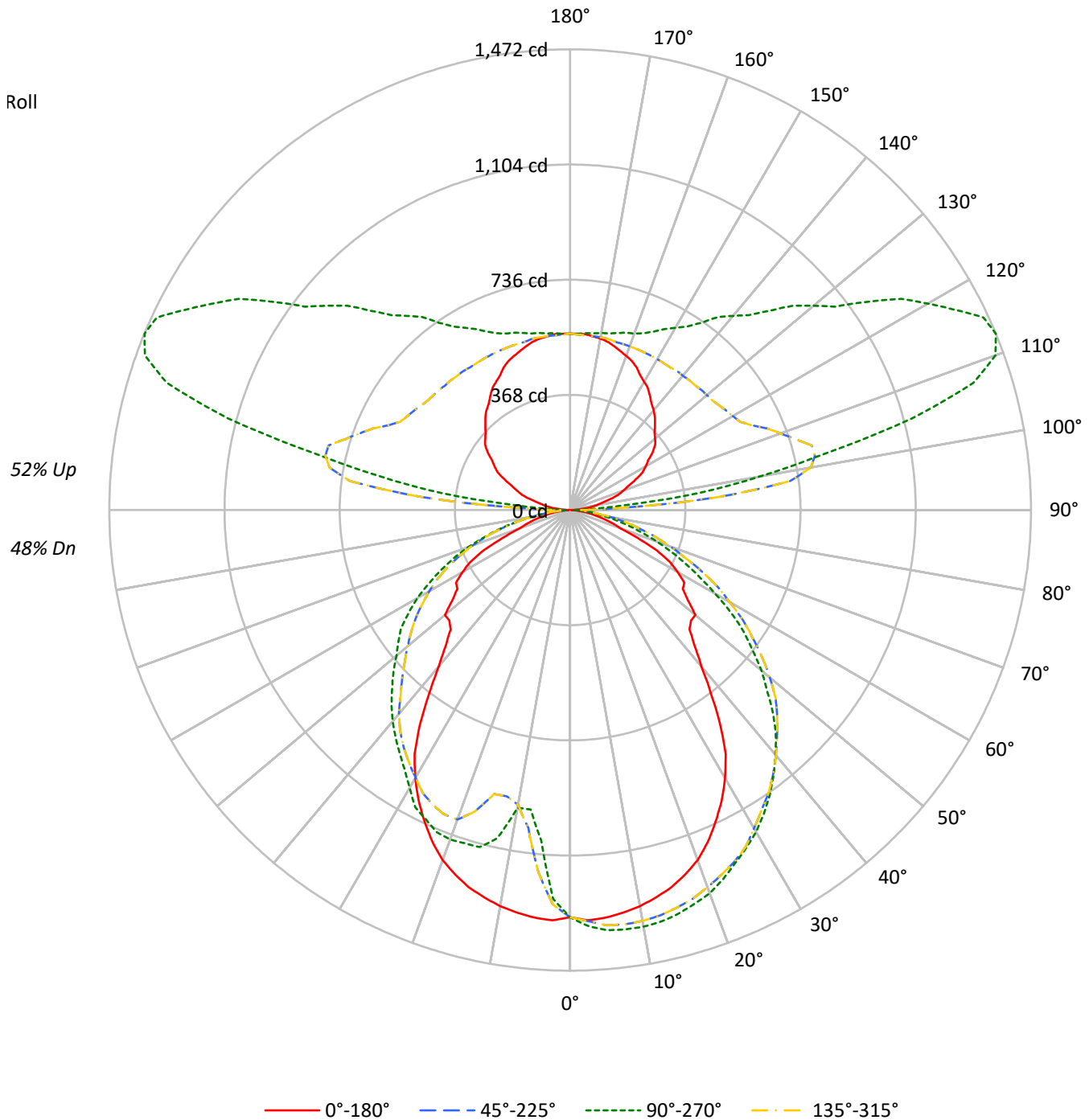
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7029.6 lumens
Efficiency: N/A
Efficacy: 123.8 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: P934268
CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6037	6037	6037	6037
5°	6082	6093	6082	4791
10°	6041	6003	6041	4291
15°	5975	5872	5975	4904
20°	5850	5718	5850	4914
25°	5594	5494	5594	4810
30°	5264	5307	5264	4581
35°	4692	5071	4692	4330
40°	3910	4793	3910	4140
45°	3494	4468	3494	3922
50°	3712	4081	3712	3703
55°	3492	3663	3492	3575
60°	3600	3111	3600	3275
65°	3263	2572	3263	2875
70°	2260	2049	2260	2409
75°	1982	1515	1982	1814
80°	1597	1002	1597	1090
85°	918	531	918	450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5355 cd/sqm



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.7
10°-20°	333.5	4.7
20°-30°	515.5	7.3
30°-40°	615.4	8.8
40°-50°	619.0	8.8
50°-60°	538.6	7.7
60°-70°	381.9	5.4
70°-80°	202.0	2.9
80°-90°	52.5	0.7
90°-100°	274.8	3.9
100°-110°	722.3	10.3
110°-120°	749.0	10.7
120°-130°	600.8	8.5
130°-140°	471.4	6.7
140°-150°	361.8	5.1
150°-160°	260.6	3.7
160°-170°	159.4	2.3
170°-180°	53.9	0.8
0°-30°	966.4	13.7
0°-40°	1581.7	22.5
0°-60°	2739.3	39.0
0°-90°	3375.6	48.0
90°-120°	1746.1	24.8
90°-150°	3180.1	45.2
90°-180°	3654.0	52.0
0°-180°	7029.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1301	1301	1301	1301	1301	
5°	1307	1348	1307	1060	1307	124
15°	1248	1336	1248	1115	1248	351
25°	1099	1246	1099	1091	1099	505
35°	836	1112	836	949	836	517
45°	539	916	539	804	539	432
55°	439	676	439	660	439	404
65°	305	408	305	456	305	292
75°	116	193	116	231	116	122
85°	20	49	20	42	20	27
90°	4	14	4	14	4	4
95°	36	166	36	166	36	40
105°	130	1131	130	1131	130	138
115°	231	1456	231	1456	231	228
125°	322	1160	322	1160	322	285
135°	383	900	383	900	383	296
145°	444	730	444	730	444	278
155°	502	629	502	629	502	231
165°	542	586	542	586	542	153
175°	564	567	564	567	564	54
180°	564	564	564	564	564	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1312.1	1312.1	1319.6	1322.0	1322.0	1318.3	1314.6	1318.3	1329.4	1333.0	1331.9
5°	1307.3	1317.1	1330.7	1333.0	1335.5	1334.3	1331.9	1334.3	1346.6	1349.1	1350.3
7.5°	1297.3	1315.9	1333.0	1336.8	1340.5	1336.8	1335.5	1338.0	1350.3	1352.8	1352.8
10°	1285.0	1310.9	1330.7	1333.0	1336.8	1333.0	1333.0	1338.0	1350.3	1352.8	1354.0
12.5°	1267.8	1303.5	1322.0	1324.4	1329.4	1328.2	1326.9	1331.9	1344.1	1346.6	1346.6
15°	1248.2	1290.0	1307.3	1309.6	1318.3	1315.9	1315.9	1320.7	1334.3	1338.0	1336.8
17.5°	1221.1	1272.8	1292.5	1296.2	1302.3	1301.1	1302.3	1307.3	1319.6	1322.0	1323.2
20°	1190.3	1249.3	1272.8	1276.4	1282.6	1282.6	1282.6	1288.7	1301.1	1306.0	1306.0
22.5°	1148.4	1224.8	1249.3	1251.8	1259.3	1259.3	1261.6	1270.3	1281.4	1282.6	1282.6
25°	1099.2	1197.7	1218.6	1225.9	1233.4	1237.1	1240.7	1245.7	1249.3	1248.2	1249.3
27.5°	1047.5	1163.2	1190.3	1195.2	1205.0	1208.8	1213.7	1214.9	1216.1	1219.8	1217.4
30°	989.6	1115.2	1155.8	1160.8	1176.8	1179.2	1174.3	1176.8	1182.9	1185.4	1187.9
32.5°	924.4	1043.8	1120.1	1131.2	1146.0	1138.6	1137.4	1141.1	1150.9	1150.9	1153.4
35°	835.7	988.4	1086.9	1096.7	1107.8	1099.2	1104.2	1105.4	1111.5	1115.2	1114.0
37.5°	738.6	940.5	1052.4	1059.8	1068.5	1057.4	1064.7	1068.5	1073.3	1070.9	1070.9
40°	652.4	865.3	1011.9	1016.7	1024.1	1015.5	1022.9	1025.3	1027.8	1025.3	1024.1
42.5°	588.3	782.9	968.7	974.9	969.9	976.2	978.5	983.5	979.8	974.9	974.9
45°	539.1	760.7	921.9	929.3	921.9	931.8	935.5	935.5	924.4	921.9	920.7
47.5°	523.2	716.4	875.2	875.2	871.4	883.8	890.0	881.4	870.3	866.6	866.6
50°	521.9	667.2	811.2	806.3	823.4	838.2	832.1	823.4	814.8	801.3	801.3
52.5°	473.9	606.9	728.7	747.2	774.3	782.9	773.0	764.4	749.7	743.4	738.6
55°	439.4	544.1	653.6	690.6	718.8	729.9	711.5	702.9	680.7	677.0	674.5
57.5°	432.1	453.0	584.7	631.5	665.9	664.7	653.6	637.6	619.2	615.5	614.2
60°	396.4	327.4	510.8	566.2	601.9	598.2	588.3	573.6	556.4	553.9	551.4
62.5°	359.5	237.6	427.1	489.9	540.3	539.1	530.5	508.4	496.0	489.9	485.0
65°	305.2	199.4	304.0	407.5	480.0	482.5	464.1	448.0	434.5	427.1	425.9
67.5°	232.6	162.5	205.6	339.7	422.2	419.8	396.4	389.0	371.8	368.1	360.7
70°	172.3	108.3	142.8	275.8	365.6	359.5	340.9	332.4	316.3	307.7	302.8
72.5°	142.8	87.4	104.6	214.2	307.7	300.4	284.3	274.5	261.0	253.6	248.6
75°	115.7	92.3	80.0	158.8	249.9	244.9	230.2	220.3	209.2	199.4	200.6
77.5°	85.0	86.2	64.0	116.9	198.2	190.8	182.2	169.9	164.9	155.1	155.1
80°	64.0	67.7	48.0	80.0	142.8	142.8	135.4	126.8	118.2	113.2	113.2
82.5°	43.0	43.0	35.7	50.5	97.3	93.5	88.6	86.2	81.2	78.7	78.7
85°	19.7	24.6	22.1	30.7	53.0	55.4	55.4	53.0	51.7	49.3	50.5
87.5°	6.1	11.1	13.6	17.3	27.1	28.4	29.5	29.5	29.5	30.7	30.7
90°	3.8	6.8	9.8	10.6	16.6	24.7	28.7	25.5	19.2	14.4	14.4
92.5°	15.1	40.8	66.6	73.0	102.7	142.2	161.9	141.9	101.9	71.9	69.0
95°	36.3	83.4	130.5	142.2	252.5	399.7	473.3	422.3	320.5	244.0	235.4
97.5°	62.8	104.3	145.8	156.2	340.2	585.5	708.2	676.0	611.6	563.3	546.8
100°	83.2	120.9	158.5	167.9	372.1	644.3	780.4	782.8	787.5	791.0	771.3
102.5°	100.7	135.8	170.9	179.7	386.7	662.9	800.9	841.9	923.9	985.4	968.6
105°	130.1	159.9	189.7	197.1	397.6	665.0	798.6	890.5	1074.5	1212.5	1203.4
107.5°	160.4	188.1	215.8	222.8	399.6	635.3	753.2	881.4	1138.0	1330.5	1332.7
110°	180.8	205.8	231.0	237.2	396.6	609.1	715.3	858.8	1145.6	1360.7	1370.1



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	200.9	224.7	248.6	254.6	396.7	586.2	680.9	827.7	1121.2	1341.4	1355.9
115°	231.2	253.2	275.2	280.7	400.4	560.0	639.7	781.1	1063.9	1276.0	1296.0
117.5°	261.0	281.0	301.0	306.1	407.8	543.5	611.3	738.9	994.1	1185.6	1207.8
120°	278.4	297.2	316.1	320.8	413.9	538.0	600.0	716.5	949.7	1124.6	1146.2
122.5°	295.4	314.4	333.4	338.2	422.5	535.0	591.3	696.3	906.3	1063.8	1085.1
125°	321.6	338.8	356.2	360.5	434.3	532.6	581.8	671.0	849.4	983.2	1002.9
127.5°	342.8	360.2	377.6	382.0	446.0	531.3	573.8	650.5	803.6	918.5	935.0
130°	354.0	372.9	391.8	396.4	454.5	532.1	570.8	639.0	775.4	877.6	892.9
132.5°	365.8	384.6	403.5	408.2	461.5	532.6	568.2	629.3	751.3	842.8	856.5
135°	383.2	400.4	417.5	421.8	469.0	532.1	563.6	614.8	717.0	793.6	805.5
137.5°	401.0	418.0	435.0	439.2	480.4	535.4	562.9	606.1	692.6	757.4	767.0
140°	415.7	431.4	447.0	451.0	487.4	535.9	560.3	597.6	672.2	728.2	737.2
142.5°	427.1	441.5	456.0	459.6	493.2	537.9	560.3	593.0	658.6	707.8	715.6
145°	444.5	457.1	469.8	472.9	500.8	538.0	556.5	583.3	637.0	677.2	683.0
147.5°	461.9	474.2	486.5	489.5	511.8	541.6	556.5	577.6	619.7	651.4	656.2
150°	473.3	484.4	495.5	498.2	517.7	543.6	556.5	574.3	610.0	636.7	640.6
152.5°	485.0	493.4	501.8	503.9	521.4	544.8	556.5	571.7	602.1	625.0	628.0
155°	502.3	508.6	514.8	516.4	529.8	547.6	556.5	568.6	592.7	610.9	612.9
157.5°	515.2	521.3	527.3	528.9	538.0	550.3	556.5	565.9	584.7	598.8	600.2
160°	523.9	528.7	533.4	534.6	541.9	551.6	556.5	564.6	580.6	592.7	593.6
162.5°	532.6	536.2	539.7	540.6	545.9	553.0	556.5	563.3	577.0	587.1	587.9
165°	542.1	545.3	548.4	549.2	551.6	554.8	556.5	561.4	571.1	578.4	579.2
167.5°	550.8	552.3	553.8	554.2	556.2	558.9	560.3	563.5	569.9	574.7	575.0
170°	556.5	558.0	559.5	559.9	560.0	560.2	560.3	563.5	569.9	574.7	574.7
172.5°	559.5	559.9	560.2	560.3	560.3	560.3	560.3	562.8	567.9	571.6	571.4
175°	563.6	563.6	563.6	563.6	562.5	561.0	560.3	561.8	565.0	567.4	567.4
177.5°	563.6	563.6	563.6	563.6	562.7	561.5	561.0	562.3	564.7	566.7	566.3
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1334.3	1330.7	1334.3	1331.9	1333.0	1329.4	1318.3	1314.6	1318.3	1322.0	1322.0
5°	1350.3	1347.8	1350.3	1350.3	1349.1	1346.6	1334.3	1331.9	1334.3	1335.5	1333.0
7.5°	1355.3	1351.6	1355.3	1352.8	1352.8	1350.3	1338.0	1335.5	1336.8	1340.5	1336.8
10°	1355.3	1351.6	1355.3	1354.0	1352.8	1350.3	1338.0	1333.0	1333.0	1336.8	1333.0
12.5°	1349.1	1346.6	1349.1	1346.6	1346.6	1344.1	1331.9	1326.9	1328.2	1329.4	1324.4
15°	1339.2	1335.5	1339.2	1336.8	1338.0	1334.3	1320.7	1315.9	1315.9	1318.3	1309.6
17.5°	1324.4	1319.6	1324.4	1323.2	1322.0	1319.6	1307.3	1302.3	1301.1	1302.3	1296.2
20°	1307.3	1303.5	1307.3	1306.0	1306.0	1301.1	1288.7	1282.6	1282.6	1282.6	1276.4
22.5°	1280.2	1276.4	1280.2	1282.6	1282.6	1281.4	1270.3	1261.6	1259.3	1259.3	1251.8
25°	1249.3	1245.7	1249.3	1249.3	1248.2	1249.3	1245.7	1240.7	1237.1	1233.4	1225.9
27.5°	1219.8	1217.4	1219.8	1217.4	1219.8	1216.1	1214.9	1213.7	1208.8	1205.0	1195.2
30°	1190.3	1187.9	1190.3	1187.9	1185.4	1182.9	1176.8	1174.3	1179.2	1176.8	1160.8
32.5°	1153.4	1150.9	1153.4	1153.4	1150.9	1150.9	1141.1	1137.4	1138.6	1146.0	1131.2
35°	1115.2	1111.5	1115.2	1114.0	1115.2	1111.5	1105.4	1104.2	1099.2	1107.8	1096.7
37.5°	1070.9	1067.2	1070.9	1070.9	1070.9	1073.3	1068.5	1064.7	1057.4	1068.5	1059.8
40°	1025.3	1020.4	1025.3	1024.1	1025.3	1027.8	1025.3	1022.9	1015.5	1024.1	1016.7
42.5°	973.7	972.4	973.7	974.9	974.9	979.8	983.5	978.5	976.2	969.9	974.9
45°	918.2	915.8	918.2	920.7	921.9	924.4	935.5	935.5	931.8	921.9	929.3
47.5°	859.1	853.0	859.1	866.6	866.6	870.3	881.4	890.0	883.8	871.4	875.2
50°	796.4	797.7	796.4	801.3	801.3	814.8	823.4	832.1	838.2	823.4	806.3
52.5°	734.9	733.6	734.9	738.6	743.4	749.7	764.4	773.0	782.9	774.3	747.2
55°	673.3	675.8	673.3	674.5	677.0	680.7	702.9	711.5	729.9	718.8	690.6
57.5°	611.7	608.1	611.7	614.2	615.5	619.2	637.6	653.6	664.7	665.9	631.5
60°	540.3	535.5	540.3	551.4	553.9	556.4	573.6	588.3	598.2	601.9	566.2
62.5°	477.6	468.9	477.6	485.0	489.9	496.0	508.4	530.5	539.1	540.3	489.9
65°	411.1	407.5	411.1	425.9	427.1	434.5	448.0	464.1	482.5	480.0	407.5
67.5°	350.8	350.8	350.8	360.7	368.1	371.8	389.0	396.4	419.8	422.2	339.7
70°	295.4	294.2	295.4	302.8	307.7	316.3	332.4	340.9	359.5	365.6	275.8
72.5°	242.5	241.3	242.5	248.6	253.6	261.0	274.5	284.3	300.4	307.7	214.2
75°	195.7	193.3	195.7	200.6	199.4	209.2	220.3	230.2	244.9	249.9	158.8
77.5°	150.1	150.1	150.1	155.1	155.1	164.9	169.9	182.2	190.8	198.2	116.9
80°	112.1	110.8	112.1	113.2	113.2	118.2	126.8	135.4	142.8	142.8	80.0
82.5°	78.7	76.4	78.7	78.7	78.7	81.2	86.2	88.6	93.5	97.3	50.5
85°	49.3	49.3	49.3	50.5	49.3	51.7	53.0	55.4	55.4	53.0	30.7
87.5°	32.0	30.7	32.0	30.7	30.7	29.5	29.5	29.5	28.4	27.1	17.3
90°	14.4	14.4	14.4	14.4	14.4	19.2	25.5	28.7	24.7	16.6	10.6
92.5°	57.5	46.2	57.5	69.0	71.9	101.9	141.9	161.9	142.2	102.7	73.0
95°	200.7	166.1	200.7	235.4	244.0	320.5	422.3	473.3	399.7	252.5	142.2
97.5°	480.9	415.0	480.9	546.8	563.3	611.6	676.0	708.2	585.5	340.2	156.2
100°	692.9	614.3	692.9	771.3	791.0	787.5	782.8	780.4	644.3	372.1	167.9
102.5°	901.4	834.1	901.4	968.6	985.4	923.9	841.9	800.9	662.9	386.7	179.7
105°	1167.2	1131.1	1167.2	1203.4	1212.5	1074.5	890.5	798.6	665.0	397.6	197.1
107.5°	1341.4	1350.1	1341.4	1332.7	1330.5	1138.0	881.4	753.2	635.3	399.6	222.8
110°	1407.7	1445.5	1407.7	1370.1	1360.7	1145.6	858.8	715.3	609.1	396.6	237.2



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1413.7	1471.5	1413.7	1355.9	1341.4	1121.2	827.7	680.9	586.2	396.7	254.6
115°	1376.2	1456.4	1376.2	1296.0	1276.0	1063.9	781.1	639.7	560.0	400.4	280.7
117.5°	1296.8	1385.7	1296.8	1207.8	1185.6	994.1	738.9	611.3	543.5	407.8	306.1
120°	1232.6	1319.1	1232.6	1146.2	1124.6	949.7	716.5	600.0	538.0	413.9	320.8
122.5°	1170.3	1255.6	1170.3	1085.1	1063.8	906.3	696.3	591.3	535.0	422.5	338.2
125°	1081.3	1159.9	1081.3	1002.9	983.2	849.4	671.0	581.8	532.6	434.3	360.5
127.5°	1001.3	1067.6	1001.3	935.0	918.5	803.6	650.5	573.8	531.3	446.0	382.0
130°	954.1	1015.3	954.1	892.9	877.6	775.4	639.0	570.8	532.1	454.5	396.4
132.5°	911.4	966.1	911.4	856.5	842.8	751.3	629.3	568.2	532.6	461.5	408.2
135°	852.7	900.0	852.7	805.5	793.6	717.0	614.8	563.6	532.1	469.0	421.8
137.5°	805.7	844.4	805.7	767.0	757.4	692.6	606.1	562.9	535.4	480.4	439.2
140°	773.3	809.5	773.3	737.2	728.2	672.2	597.6	560.3	535.9	487.4	451.0
142.5°	746.6	777.7	746.6	715.6	707.8	658.6	593.0	560.3	537.9	493.2	459.6
145°	706.6	730.1	706.6	683.0	677.2	637.0	583.3	556.5	538.0	500.8	472.9
147.5°	675.8	695.3	675.8	656.2	651.4	619.7	577.6	556.5	541.6	511.8	489.5
150°	656.4	672.2	656.4	640.6	636.7	610.0	574.3	556.5	543.6	517.7	498.2
152.5°	639.9	651.8	639.9	628.0	625.0	602.1	571.7	556.5	544.8	521.4	503.9
155°	620.8	628.7	620.8	612.9	610.9	592.7	568.6	556.5	547.6	529.8	516.4
157.5°	605.8	611.3	605.8	600.2	598.8	584.7	565.9	556.5	550.3	538.0	528.9
160°	596.8	600.0	596.8	593.6	592.7	580.6	564.6	556.5	551.6	541.9	534.6
162.5°	590.9	593.9	590.9	587.9	587.1	577.0	563.3	556.5	553.0	545.9	540.6
165°	582.4	585.6	582.4	579.2	578.4	571.1	561.4	556.5	554.8	551.6	549.2
167.5°	576.3	577.7	576.3	575.0	574.7	569.9	563.5	560.3	558.9	556.2	554.2
170°	574.7	574.7	574.7	574.7	574.7	569.9	563.5	560.3	560.2	560.0	559.9
172.5°	570.2	569.0	570.2	571.4	571.6	567.9	562.8	560.3	560.3	560.3	560.3
175°	567.4	567.4	567.4	567.4	567.4	565.0	561.8	560.3	561.0	562.5	563.6
177.5°	565.0	563.6	565.0	566.3	566.7	564.7	562.3	561.0	561.5	562.7	563.6
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1319.6	1312.1	1312.1	1299.8	1295.0	1291.2	1285.0	1266.6	1261.6	1256.8	1264.1
5°	1330.7	1317.1	1307.3	1285.0	1266.6	1259.3	1235.9	1191.5	1162.0	1139.8	1127.5
7.5°	1333.0	1315.9	1297.3	1262.9	1218.6	1198.9	1127.5	1046.3	1024.1	1004.4	992.1
10°	1330.7	1310.9	1285.0	1233.4	1128.8	1094.3	1022.9	969.9	956.4	952.8	956.4
12.5°	1322.0	1303.5	1267.8	1181.7	1035.2	1011.9	969.9	939.2	936.7	942.8	976.2
15°	1307.3	1290.0	1248.2	1112.7	983.5	966.2	936.7	925.7	939.2	982.3	1082.0
17.5°	1292.5	1272.8	1221.1	1045.1	944.1	931.8	910.9	933.0	1009.4	1067.2	1100.4
20°	1272.8	1249.3	1190.3	995.8	915.8	904.8	894.8	994.6	1052.4	1073.3	1091.8
22.5°	1249.3	1224.8	1148.4	961.4	886.2	877.7	883.8	1029.0	1052.4	1067.2	1083.2
25°	1218.6	1197.7	1099.2	934.3	862.9	853.0	876.4	1025.3	1038.9	1042.6	1074.6
27.5°	1190.3	1163.2	1047.5	909.6	834.6	830.9	882.5	1009.4	1019.2	1022.9	1057.4
30°	1155.8	1115.2	989.6	883.8	805.0	803.8	883.8	989.6	987.2	997.1	1031.5
32.5°	1120.1	1043.8	924.4	851.8	776.7	775.5	875.2	960.1	957.6	971.2	997.1
35°	1086.9	988.4	835.7	814.8	741.0	742.2	854.3	925.7	926.9	939.2	955.2
37.5°	1052.4	940.5	738.6	774.3	706.5	706.5	825.9	893.7	891.2	894.8	917.1
40°	1011.9	865.3	652.4	721.3	674.5	670.8	791.5	859.1	850.5	849.3	880.1
42.5°	968.7	782.9	588.3	651.2	637.6	632.7	749.7	817.3	801.3	805.0	844.4
45°	921.9	760.7	539.1	550.2	599.4	595.8	704.1	769.3	758.2	768.1	808.7
47.5°	875.2	716.4	523.2	456.6	558.9	557.6	653.6	722.5	716.4	726.3	769.3
50°	811.2	667.2	521.9	391.4	513.3	518.2	593.3	677.0	677.0	685.6	731.1
52.5°	728.7	606.9	473.9	354.5	460.3	475.1	540.3	637.6	640.1	648.7	689.3
55°	653.6	544.1	439.4	326.1	397.5	429.6	488.7	597.0	601.9	610.5	647.4
57.5°	584.7	453.0	432.1	292.9	339.7	370.5	443.2	557.6	560.1	567.4	603.1
60°	510.8	327.4	396.4	257.2	289.3	312.7	401.3	510.8	519.4	524.4	555.1
62.5°	427.1	237.6	359.5	232.6	264.7	269.5	366.8	466.6	477.6	481.3	499.8
65°	304.0	199.4	305.2	211.7	238.8	240.1	329.9	420.9	430.9	437.0	450.5
67.5°	205.6	162.5	232.6	192.0	219.1	220.3	294.2	368.1	381.6	386.5	395.2
70°	142.8	108.3	172.3	171.1	196.9	199.4	256.0	320.0	332.4	336.1	340.9
72.5°	104.6	87.4	142.8	153.9	173.5	176.0	216.7	265.9	278.2	281.9	284.3
75°	80.0	92.3	115.7	134.2	147.7	148.9	177.2	216.7	225.3	227.7	229.0
77.5°	64.0	86.2	85.0	108.3	120.6	118.2	139.1	167.4	174.8	174.8	174.8
80°	48.0	67.7	64.0	77.5	88.6	86.2	99.7	119.4	121.9	124.3	123.1
82.5°	35.7	43.0	43.0	49.3	59.1	56.6	66.4	77.5	77.5	77.5	80.0
85°	22.1	24.6	19.7	25.9	33.2	32.0	36.9	41.8	43.0	43.0	40.7
87.5°	13.6	11.1	6.1	9.8	14.8	14.8	17.3	18.4	17.3	17.3	17.3
90°	9.8	6.8	3.8	6.8	9.8	10.6	16.6	24.7	28.7	25.5	19.2
92.5°	66.6	40.8	15.1	40.8	66.6	73.0	102.7	142.2	161.9	141.9	101.9
95°	130.5	83.4	36.3	83.4	130.5	142.2	252.5	399.7	473.3	422.3	320.5
97.5°	145.8	104.3	62.8	104.3	145.8	156.2	340.2	585.5	708.2	676.0	611.6
100°	158.5	120.9	83.2	120.9	158.5	167.9	372.1	644.3	780.4	782.8	787.5
102.5°	170.9	135.8	100.7	135.8	170.9	179.7	386.7	662.9	800.9	841.9	923.9
105°	189.7	159.9	130.1	159.9	189.7	197.1	397.6	665.0	798.6	890.5	1074.5
107.5°	215.8	188.1	160.4	188.1	215.8	222.8	399.6	635.3	753.2	881.4	1138.0
110°	231.0	205.8	180.8	205.8	231.0	237.2	396.6	609.1	715.3	858.8	1145.6



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	248.6	224.7	200.9	224.7	248.6	254.6	396.7	586.2	680.9	827.7	1121.2
115°	275.2	253.2	231.2	253.2	275.2	280.7	400.4	560.0	639.7	781.1	1063.9
117.5°	301.0	281.0	261.0	281.0	301.0	306.1	407.8	543.5	611.3	738.9	994.1
120°	316.1	297.2	278.4	297.2	316.1	320.8	413.9	538.0	600.0	716.5	949.7
122.5°	333.4	314.4	295.4	314.4	333.4	338.2	422.5	535.0	591.3	696.3	906.3
125°	356.2	338.8	321.6	338.8	356.2	360.5	434.3	532.6	581.8	671.0	849.4
127.5°	377.6	360.2	342.8	360.2	377.6	382.0	446.0	531.3	573.8	650.5	803.6
130°	391.8	372.9	354.0	372.9	391.8	396.4	454.5	532.1	570.8	639.0	775.4
132.5°	403.5	384.6	365.8	384.6	403.5	408.2	461.5	532.6	568.2	629.3	751.3
135°	417.5	400.4	383.2	400.4	417.5	421.8	469.0	532.1	563.6	614.8	717.0
137.5°	435.0	418.0	401.0	418.0	435.0	439.2	480.4	535.4	562.9	606.1	692.6
140°	447.0	431.4	415.7	431.4	447.0	451.0	487.4	535.9	560.3	597.6	672.2
142.5°	456.0	441.5	427.1	441.5	456.0	459.6	493.2	537.9	560.3	593.0	658.6
145°	469.8	457.1	444.5	457.1	469.8	472.9	500.8	538.0	556.5	583.3	637.0
147.5°	486.5	474.2	461.9	474.2	486.5	489.5	511.8	541.6	556.5	577.6	619.7
150°	495.5	484.4	473.3	484.4	495.5	498.2	517.7	543.6	556.5	574.3	610.0
152.5°	501.8	493.4	485.0	493.4	501.8	503.9	521.4	544.8	556.5	571.7	602.1
155°	514.8	508.6	502.3	508.6	514.8	516.4	529.8	547.6	556.5	568.6	592.7
157.5°	527.3	521.3	515.2	521.3	527.3	528.9	538.0	550.3	556.5	565.9	584.7
160°	533.4	528.7	523.9	528.7	533.4	534.6	541.9	551.6	556.5	564.6	580.6
162.5°	539.7	536.2	532.6	536.2	539.7	540.6	545.9	553.0	556.5	563.3	577.0
165°	548.4	545.3	542.1	545.3	548.4	549.2	551.6	554.8	556.5	561.4	571.1
167.5°	553.8	552.3	550.8	552.3	553.8	554.2	556.2	558.9	560.3	563.5	569.9
170°	559.5	558.0	556.5	558.0	559.5	559.9	560.0	560.2	560.3	563.5	569.9
172.5°	560.2	559.9	559.5	559.9	560.2	560.3	560.3	560.3	560.3	562.8	567.9
175°	563.6	563.6	563.6	563.6	563.6	563.6	562.5	561.0	560.3	561.8	565.0
177.5°	563.6	563.6	563.6	563.6	563.6	563.6	562.7	561.5	561.0	562.3	564.7
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



TEST NUMBER: P934268
 CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1255.5	1251.8	1256.8	1243.2	1256.8	1251.8	1255.5	1264.1	1256.8	1261.6	1266.6
5°	1101.7	1095.5	1075.8	1059.8	1075.8	1095.5	1101.7	1127.5	1139.8	1162.0	1191.5
7.5°	984.7	979.8	974.9	965.0	974.9	979.8	984.7	992.1	1004.4	1024.1	1046.3
10°	958.9	960.1	967.5	966.2	967.5	960.1	958.9	956.4	952.8	956.4	969.9
12.5°	1025.3	1036.4	1077.0	1074.6	1077.0	1036.4	1025.3	976.2	942.8	936.7	939.2
15°	1101.7	1105.4	1114.0	1115.2	1114.0	1105.4	1101.7	1082.0	982.3	939.2	925.7
17.5°	1109.0	1110.3	1116.5	1116.5	1116.5	1110.3	1109.0	1100.4	1067.2	1009.4	933.0
20°	1102.9	1105.4	1117.7	1120.1	1117.7	1105.4	1102.9	1091.8	1073.3	1052.4	994.6
22.5°	1100.4	1105.4	1115.2	1114.0	1115.2	1105.4	1100.4	1083.2	1067.2	1052.4	1029.0
25°	1088.1	1088.1	1089.4	1090.6	1089.4	1088.1	1088.1	1074.6	1042.6	1038.9	1025.3
27.5°	1062.2	1064.7	1072.1	1070.9	1072.1	1064.7	1062.2	1057.4	1022.9	1019.2	1009.4
30°	1038.9	1036.4	1030.3	1025.3	1030.3	1036.4	1038.9	1031.5	997.1	987.2	989.6
32.5°	999.5	993.3	987.2	983.5	987.2	993.3	999.5	997.1	971.2	957.6	960.1
35°	952.8	953.9	952.8	949.0	952.8	953.9	952.8	955.2	939.2	926.9	925.7
37.5°	919.5	921.9	920.7	915.8	920.7	921.9	919.5	917.1	894.8	891.2	893.7
40°	885.0	886.2	885.0	881.4	885.0	886.2	885.0	880.1	849.3	850.5	859.1
42.5°	851.8	850.5	846.8	844.4	846.8	850.5	851.8	844.4	805.0	801.3	817.3
45°	813.6	814.8	807.5	803.8	807.5	814.8	813.6	808.7	768.1	758.2	769.3
47.5°	775.5	775.5	769.3	765.6	769.3	775.5	775.5	769.3	726.3	716.4	722.5
50°	734.9	733.6	725.0	723.8	725.0	733.6	734.9	731.1	685.6	677.0	677.0
52.5°	688.1	688.1	689.3	691.8	689.3	688.1	688.1	689.3	648.7	640.1	637.6
55°	647.4	648.7	657.3	659.7	657.3	648.7	647.4	647.4	610.5	601.9	597.0
57.5°	605.6	605.6	611.7	611.7	611.7	605.6	605.6	603.1	567.4	560.1	557.6
60°	557.6	560.1	565.0	563.7	565.0	560.1	557.6	555.1	524.4	519.4	510.8
62.5°	507.1	509.6	510.8	508.4	510.8	509.6	507.1	499.8	481.3	477.6	466.6
65°	454.2	456.6	457.9	455.5	457.9	456.6	454.2	450.5	437.0	430.9	420.9
67.5°	400.0	398.8	397.5	402.5	397.5	398.8	400.0	395.2	386.5	381.6	368.1
70°	344.7	344.7	343.4	345.9	343.4	344.7	344.7	340.9	336.1	332.4	320.0
72.5°	285.6	284.3	289.3	285.6	289.3	284.3	285.6	284.3	281.9	278.2	265.9
75°	227.7	230.2	227.7	231.4	227.7	230.2	227.7	229.0	227.7	225.3	216.7
77.5°	173.5	176.0	173.5	173.5	173.5	176.0	173.5	174.8	174.8	174.8	167.4
80°	123.1	121.9	121.9	120.6	121.9	121.9	123.1	123.1	124.3	121.9	119.4
82.5°	78.7	77.5	77.5	80.0	77.5	77.5	78.7	80.0	77.5	77.5	77.5
85°	43.0	44.3	41.8	41.8	41.8	44.3	43.0	40.7	43.0	43.0	41.8
87.5°	16.0	14.8	14.8	14.8	14.8	14.8	16.0	17.3	17.3	17.3	18.4
90°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	19.2	25.5	28.7	24.7
92.5°	71.9	69.0	57.5	46.2	57.5	69.0	71.9	101.9	141.9	161.9	142.2
95°	244.0	235.4	200.7	166.1	200.7	235.4	244.0	320.5	422.3	473.3	399.7
97.5°	563.3	546.8	480.9	415.0	480.9	546.8	563.3	611.6	676.0	708.2	585.5
100°	791.0	771.3	692.9	614.3	692.9	771.3	791.0	787.5	782.8	780.4	644.3
102.5°	985.4	968.6	901.4	834.1	901.4	968.6	985.4	923.9	841.9	800.9	662.9
105°	1212.5	1203.4	1167.2	1131.1	1167.2	1203.4	1212.5	1074.5	890.5	798.6	665.0
107.5°	1330.5	1332.7	1341.4	1350.1	1341.4	1332.7	1330.5	1138.0	881.4	753.2	635.3
110°	1360.7	1370.1	1407.7	1445.5	1407.7	1370.1	1360.7	1145.6	858.8	715.3	609.1



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1341.4	1355.9	1413.7	1471.5	1413.7	1355.9	1341.4	1121.2	827.7	680.9	586.2
115°	1276.0	1296.0	1376.2	1456.4	1376.2	1296.0	1276.0	1063.9	781.1	639.7	560.0
117.5°	1185.6	1207.8	1296.8	1385.7	1296.8	1207.8	1185.6	994.1	738.9	611.3	543.5
120°	1124.6	1146.2	1232.6	1319.1	1232.6	1146.2	1124.6	949.7	716.5	600.0	538.0
122.5°	1063.8	1085.1	1170.3	1255.6	1170.3	1085.1	1063.8	906.3	696.3	591.3	535.0
125°	983.2	1002.9	1081.3	1159.9	1081.3	1002.9	983.2	849.4	671.0	581.8	532.6
127.5°	918.5	935.0	1001.3	1067.6	1001.3	935.0	918.5	803.6	650.5	573.8	531.3
130°	877.6	892.9	954.1	1015.3	954.1	892.9	877.6	775.4	639.0	570.8	532.1
132.5°	842.8	856.5	911.4	966.1	911.4	856.5	842.8	751.3	629.3	568.2	532.6
135°	793.6	805.5	852.7	900.0	852.7	805.5	793.6	717.0	614.8	563.6	532.1
137.5°	757.4	767.0	805.7	844.4	805.7	767.0	757.4	692.6	606.1	562.9	535.4
140°	728.2	737.2	773.3	809.5	773.3	737.2	728.2	672.2	597.6	560.3	535.9
142.5°	707.8	715.6	746.6	777.7	746.6	715.6	707.8	658.6	593.0	560.3	537.9
145°	677.2	683.0	706.6	730.1	706.6	683.0	677.2	637.0	583.3	556.5	538.0
147.5°	651.4	656.2	675.8	695.3	675.8	656.2	651.4	619.7	577.6	556.5	541.6
150°	636.7	640.6	656.4	672.2	656.4	640.6	636.7	610.0	574.3	556.5	543.6
152.5°	625.0	628.0	639.9	651.8	639.9	628.0	625.0	602.1	571.7	556.5	544.8
155°	610.9	612.9	620.8	628.7	620.8	612.9	610.9	592.7	568.6	556.5	547.6
157.5°	598.8	600.2	605.8	611.3	605.8	600.2	598.8	584.7	565.9	556.5	550.3
160°	592.7	593.6	596.8	600.0	596.8	593.6	592.7	580.6	564.6	556.5	551.6
162.5°	587.1	587.9	590.9	593.9	590.9	587.9	587.1	577.0	563.3	556.5	553.0
165°	578.4	579.2	582.4	585.6	582.4	579.2	578.4	571.1	561.4	556.5	554.8
167.5°	574.7	575.0	576.3	577.7	576.3	575.0	574.7	569.9	563.5	560.3	558.9
170°	574.7	574.7	574.7	574.7	574.7	574.7	574.7	569.9	563.5	560.3	560.2
172.5°	571.6	571.4	570.2	569.0	570.2	571.4	571.6	567.9	562.8	560.3	560.3
175°	567.4	567.4	567.4	567.4	567.4	567.4	567.4	565.0	561.8	560.3	561.0
177.5°	566.7	566.3	565.0	563.6	565.0	566.3	566.7	564.7	562.3	561.0	561.5
180°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1285.0	1291.2	1295.0	1299.8	1312.1
5°	1235.9	1259.3	1266.6	1285.0	1307.3
7.5°	1127.5	1198.9	1218.6	1262.9	1297.3
10°	1022.9	1094.3	1128.8	1233.4	1285.0
12.5°	969.9	1011.9	1035.2	1181.7	1267.8
15°	936.7	966.2	983.5	1112.7	1248.2
17.5°	910.9	931.8	944.1	1045.1	1221.1
20°	894.8	904.8	915.8	995.8	1190.3
22.5°	883.8	877.7	886.2	961.4	1148.4
25°	876.4	853.0	862.9	934.3	1099.2
27.5°	882.5	830.9	834.6	909.6	1047.5
30°	883.8	803.8	805.0	883.8	989.6
32.5°	875.2	775.5	776.7	851.8	924.4
35°	854.3	742.2	741.0	814.8	835.7
37.5°	825.9	706.5	706.5	774.3	738.6
40°	791.5	670.8	674.5	721.3	652.4
42.5°	749.7	632.7	637.6	651.2	588.3
45°	704.1	595.8	599.4	550.2	539.1
47.5°	653.6	557.6	558.9	456.6	523.2
50°	593.3	518.2	513.3	391.4	521.9
52.5°	540.3	475.1	460.3	354.5	473.9
55°	488.7	429.6	397.5	326.1	439.4
57.5°	443.2	370.5	339.7	292.9	432.1
60°	401.3	312.7	289.3	257.2	396.4
62.5°	366.8	269.5	264.7	232.6	359.5
65°	329.9	240.1	238.8	211.7	305.2
67.5°	294.2	220.3	219.1	192.0	232.6
70°	256.0	199.4	196.9	171.1	172.3
72.5°	216.7	176.0	173.5	153.9	142.8
75°	177.2	148.9	147.7	134.2	115.7
77.5°	139.1	118.2	120.6	108.3	85.0
80°	99.7	86.2	88.6	77.5	64.0
82.5°	66.4	56.6	59.1	49.3	43.0
85°	36.9	32.0	33.2	25.9	19.7
87.5°	17.3	14.8	14.8	9.8	6.1
90°	16.6	10.6	9.8	6.8	3.8
92.5°	102.7	73.0	66.6	40.8	15.1
95°	252.5	142.2	130.5	83.4	36.3
97.5°	340.2	156.2	145.8	104.3	62.8
100°	372.1	167.9	158.5	120.9	83.2
102.5°	386.7	179.7	170.9	135.8	100.7
105°	397.6	197.1	189.7	159.9	130.1
107.5°	399.6	222.8	215.8	188.1	160.4
110°	396.6	237.2	231.0	205.8	180.8



TEST NUMBER: P934268

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	396.7	254.6	248.6	224.7	200.9
115°	400.4	280.7	275.2	253.2	231.2
117.5°	407.8	306.1	301.0	281.0	261.0
120°	413.9	320.8	316.1	297.2	278.4
122.5°	422.5	338.2	333.4	314.4	295.4
125°	434.3	360.5	356.2	338.8	321.6
127.5°	446.0	382.0	377.6	360.2	342.8
130°	454.5	396.4	391.8	372.9	354.0
132.5°	461.5	408.2	403.5	384.6	365.8
135°	469.0	421.8	417.5	400.4	383.2
137.5°	480.4	439.2	435.0	418.0	401.0
140°	487.4	451.0	447.0	431.4	415.7
142.5°	493.2	459.6	456.0	441.5	427.1
145°	500.8	472.9	469.8	457.1	444.5
147.5°	511.8	489.5	486.5	474.2	461.9
150°	517.7	498.2	495.5	484.4	473.3
152.5°	521.4	503.9	501.8	493.4	485.0
155°	529.8	516.4	514.8	508.6	502.3
157.5°	538.0	528.9	527.3	521.3	515.2
160°	541.9	534.6	533.4	528.7	523.9
162.5°	545.9	540.6	539.7	536.2	532.6
165°	551.6	549.2	548.4	545.3	542.1
167.5°	556.2	554.2	553.8	552.3	550.8
170°	560.0	559.9	559.5	558.0	556.5
172.5°	560.3	560.3	560.2	559.9	559.5
175°	562.5	563.6	563.6	563.6	563.6
177.5°	562.7	563.6	563.6	563.6	563.6
180°	563.6	563.6	563.6	563.6	563.6



TEST NUMBER: P934268
 CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-5000K

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	10.87	11.71	11.84	12.70	14.00	13.70	14.55	14.68	15.54	16.84
	3H	11.34	12.10	12.33	13.10	14.42	15.05	15.81	16.04	16.80	18.13
	4H	11.53	12.25	12.53	13.25	14.58	15.50	16.21	16.49	17.21	18.54
	6H	11.65	12.31	12.66	13.32	14.66	15.78	16.44	16.79	17.45	18.79
	8H	11.65	12.28	12.67	13.30	14.64	15.86	16.48	16.87	17.51	18.84
	12H	11.62	12.22	12.64	13.23	14.60	15.90	16.49	16.92	17.51	18.87
4H	2H	11.90	12.62	12.90	13.62	14.94	14.11	14.83	15.12	15.83	17.16
	3H	12.93	13.52	13.94	14.55	15.89	15.62	16.21	16.63	17.24	18.59
	4H	13.20	13.75	14.22	14.77	16.13	16.15	16.69	17.17	17.71	19.08
	6H	13.32	13.79	14.36	14.84	16.20	16.51	16.98	17.55	18.03	19.39
	8H	13.33	13.77	14.36	14.81	16.18	16.62	17.06	17.65	18.10	19.47
	12H	13.30	13.69	14.35	14.74	16.13	16.68	17.07	17.73	18.13	19.51
8H	4H	13.65	14.09	14.69	15.13	16.51	16.27	16.71	17.30	17.75	19.12
	6H	13.92	14.28	14.97	15.36	16.73	16.71	17.07	17.77	18.15	19.52
	8H	13.96	14.28	15.02	15.34	16.73	16.86	17.18	17.93	18.24	19.64
	12H	13.94	14.22	15.01	15.28	16.72	16.96	17.24	18.03	18.30	19.74
12H	4H	13.66	14.06	14.71	15.11	16.49	16.23	16.63	17.29	17.68	19.06
	6H	13.98	14.29	15.04	15.36	16.75	16.70	17.02	17.77	18.09	19.48
	8H	14.04	14.32	15.11	15.38	16.82	16.87	17.15	17.94	18.21	19.64