

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: P933962

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933962
REPORT IS A COMBINATION OF REPORTS P933679 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

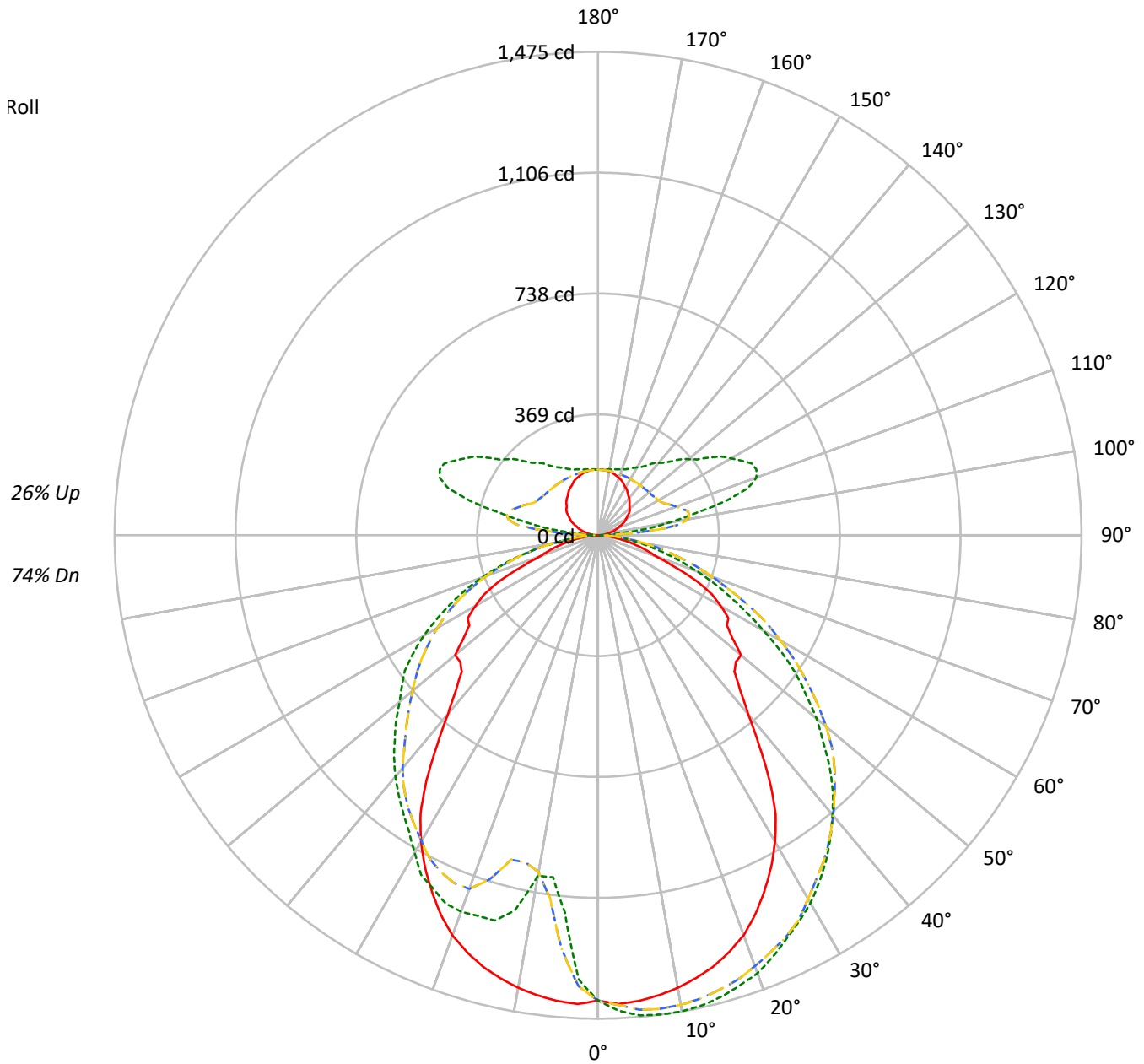
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4980.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45
Input Voltage (V): NR
Input Current (A_{in}): 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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CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8781	8781	8781	8781
5°	8844	8864	8844	6970
10°	8782	8732	8782	6242
15°	8683	8543	8683	7133
20°	8498	8319	8498	7148
25°	8123	7992	8123	6997
30°	7639	7720	7639	6664
35°	6807	7377	6807	6298
40°	5669	6973	5669	6023
45°	5062	6500	5062	5705
50°	5373	5936	5373	5386
55°	5050	5328	5050	5202
60°	5200	4525	5200	4765
65°	4708	3740	4708	4181
70°	3251	2981	3251	3505
75°	2840	2203	2840	2639
80°	2272	1457	2272	1586
85°	1282	771	1282	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7763 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	2.6
10°-20°	363.8	7.3
20°-30°	562.4	11.3
30°-40°	671.4	13.5
40°-50°	675.3	13.6
50°-60°	587.6	11.8
60°-70°	416.6	8.4
70°-80°	220.4	4.4
80°-90°	55.7	1.1
90°-100°	97.7	2.0
100°-110°	256.8	5.2
110°-120°	266.3	5.3
120°-130°	213.6	4.3
130°-140°	167.6	3.4
140°-150°	128.6	2.6
150°-160°	92.7	1.9
160°-170°	56.7	1.1
170°-180°	19.2	0.4
0°-30°	1054.3	21.2
0°-40°	1725.7	34.6
0°-60°	2988.6	60.0
0°-90°	3681.3	73.9
90°-120°	620.8	12.5
90°-150°	1130.7	22.7
90°-180°	1299.0	26.1
0°-180°	4980.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1420	1420	1420	1420	1420	
5°	1426	1470	1426	1156	1426	135
15°	1362	1457	1362	1217	1362	383
25°	1199	1359	1199	1190	1199	551
35°	912	1213	912	1035	912	564
45°	588	999	588	877	588	471
55°	479	737	479	720	479	441
65°	333	444	333	497	333	318
75°	126	211	126	252	126	133
85°	22	54	22	46	22	29
90°	1	5	1	5	1	2
95°	13	59	13	59	13	14
105°	46	402	46	402	46	49
115°	82	518	82	518	82	81
125°	114	412	114	412	114	101
135°	136	320	136	320	136	105
145°	158	260	158	260	158	99
155°	179	224	179	224	179	82
165°	193	208	193	208	193	54
175°	200	202	200	202	200	19
180°	200	200	200	200	200	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1431.6	1431.6	1439.7	1442.3	1442.3	1438.3	1434.3	1438.3	1450.4	1454.4	1453.1
5°	1426.2	1437.0	1451.7	1454.4	1457.1	1455.8	1453.1	1455.8	1469.2	1471.9	1473.2
7.5°	1415.5	1435.6	1454.4	1458.5	1462.5	1458.5	1457.1	1459.8	1473.2	1475.9	1475.9
10°	1402.1	1430.3	1451.7	1454.4	1458.5	1454.4	1454.4	1459.8	1473.2	1475.9	1477.3
12.5°	1383.3	1422.2	1442.3	1445.0	1450.4	1449.1	1447.7	1453.1	1466.5	1469.2	1469.2
15°	1361.8	1407.4	1426.2	1428.9	1438.3	1435.6	1435.6	1441.0	1455.8	1459.8	1458.5
17.5°	1332.2	1388.6	1410.1	1414.1	1420.9	1419.5	1420.9	1426.2	1439.7	1442.3	1443.7
20°	1298.7	1363.1	1388.6	1392.7	1399.4	1399.4	1399.4	1406.1	1419.5	1424.9	1424.9
22.5°	1253.0	1336.3	1363.1	1365.8	1373.9	1373.9	1376.5	1385.9	1398.0	1399.4	1399.4
25°	1199.3	1306.7	1329.5	1337.6	1345.7	1349.7	1353.7	1359.1	1363.1	1361.8	1363.1
27.5°	1142.9	1269.1	1298.7	1304.0	1314.8	1318.8	1324.2	1325.5	1326.9	1330.9	1328.2
30°	1079.7	1216.7	1261.0	1266.4	1283.9	1286.6	1281.2	1283.9	1290.6	1293.3	1296.0
32.5°	1008.6	1138.8	1222.1	1234.2	1250.3	1242.2	1240.9	1244.9	1255.7	1255.7	1258.4
35°	911.9	1078.4	1185.8	1196.6	1208.7	1199.3	1204.6	1206.0	1212.7	1216.7	1215.4
37.5°	805.8	1026.0	1148.2	1156.3	1165.7	1153.6	1161.7	1165.7	1171.1	1168.4	1168.4
40°	711.8	944.1	1103.9	1109.3	1117.3	1107.9	1116.0	1118.7	1121.4	1118.7	1117.3
42.5°	641.9	854.1	1056.9	1063.6	1058.3	1065.0	1067.7	1073.0	1069.0	1063.6	1063.6
45°	588.2	830.0	1005.9	1013.9	1005.9	1016.6	1020.7	1020.7	1008.6	1005.9	1004.5
47.5°	570.8	781.6	954.9	954.9	950.8	964.3	971.0	961.6	949.5	945.4	945.4
50°	569.4	727.9	885.0	879.6	898.4	914.6	907.8	898.4	889.0	874.3	874.3
52.5°	517.0	662.1	795.0	815.2	844.7	854.1	843.4	834.0	817.9	811.2	805.8
55°	479.4	593.6	713.1	753.4	784.3	796.4	776.2	766.8	742.7	738.6	735.9
57.5°	471.4	494.2	637.9	688.9	726.5	725.2	713.1	695.7	675.5	671.5	670.1
60°	432.4	357.2	557.3	617.8	656.7	652.7	641.9	625.8	607.0	604.3	601.6
62.5°	392.1	259.2	466.0	534.5	589.6	588.2	578.8	554.6	541.2	534.5	529.1
65°	333.1	217.6	331.7	444.5	523.8	526.4	506.3	488.8	474.1	466.0	464.7
67.5°	253.8	177.3	224.3	370.7	460.6	458.0	432.4	424.4	405.6	401.5	393.5
70°	188.0	118.2	155.8	300.8	398.9	392.1	372.0	362.6	345.1	335.7	330.4
72.5°	155.8	95.4	114.2	233.7	335.7	327.7	310.2	299.5	284.7	276.7	271.3
75°	126.2	100.7	87.3	173.2	272.6	267.3	251.1	240.4	228.3	217.6	218.9
77.5°	92.7	94.0	69.8	127.6	216.2	208.2	198.8	185.3	180.0	169.2	169.2
80°	69.8	73.9	52.4	87.3	155.8	155.8	147.7	138.3	128.9	123.6	123.6
82.5°	47.0	47.0	38.9	55.1	106.1	102.1	96.7	94.0	88.6	85.9	85.9
85°	21.5	26.9	24.2	33.6	57.7	60.4	60.4	57.7	56.4	53.7	55.1
87.5°	6.7	12.1	14.8	18.8	29.5	30.9	32.2	32.2	32.2	33.6	33.6
90°	1.3	2.4	3.5	3.8	5.9	8.8	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	26.0	36.5	50.6	57.6	50.4	36.2	25.5	24.5
95°	12.9	29.6	46.4	50.6	89.8	142.1	168.2	150.1	113.9	86.8	83.7
97.5°	22.3	37.1	51.8	55.5	121.0	208.2	251.8	240.3	217.5	200.3	194.5
100°	29.6	43.0	56.4	59.7	132.3	229.1	277.5	278.3	280.0	281.2	274.2
102.5°	35.8	48.3	60.8	63.9	137.5	235.6	284.7	299.3	328.5	350.4	344.4
105°	46.3	56.9	67.4	70.1	141.4	236.4	283.9	316.6	382.0	431.1	427.9
107.5°	57.0	66.9	76.7	79.2	142.1	225.9	267.8	313.4	404.7	473.1	473.9
110°	64.3	73.2	82.1	84.3	141.0	216.6	254.4	305.4	407.4	483.8	487.1



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.4	80.0	88.4	90.5	141.0	208.4	242.1	294.3	398.7	476.9	482.0
115°	82.2	90.1	97.9	99.8	142.4	199.0	227.4	277.7	378.3	453.7	460.8
117.5°	92.8	99.9	107.0	108.8	145.0	193.2	217.4	262.8	353.5	421.5	429.4
120°	99.0	105.7	112.4	114.1	147.2	191.3	213.4	254.8	337.7	399.9	407.6
122.5°	105.0	111.8	118.5	120.2	150.2	190.3	210.2	247.6	322.2	378.3	385.9
125°	114.3	120.5	126.7	128.2	154.4	189.4	206.9	238.6	302.1	349.6	356.6
127.5°	121.9	128.0	134.3	135.8	158.6	188.9	204.0	231.3	285.8	326.6	332.5
130°	125.9	132.6	139.2	140.9	161.6	189.2	203.0	227.2	275.7	312.0	317.5
132.5°	130.1	136.8	143.4	145.1	164.1	189.4	202.1	223.7	267.2	299.7	304.5
135°	136.3	142.4	148.4	150.0	166.8	189.3	200.5	218.6	255.0	282.2	286.4
137.5°	142.6	148.6	154.6	156.1	170.8	190.4	200.2	215.6	246.3	269.3	272.7
140°	147.8	153.4	158.9	160.4	173.3	190.6	199.2	212.5	239.0	258.9	262.1
142.5°	151.8	156.9	162.1	163.4	175.3	191.2	199.2	210.8	234.2	251.7	254.4
145°	158.0	162.5	167.0	168.1	178.1	191.2	197.9	207.4	226.4	240.7	242.8
147.5°	164.2	168.6	173.0	174.0	182.0	192.6	197.9	205.4	220.3	231.6	233.3
150°	168.2	172.2	176.2	177.2	184.1	193.3	197.9	204.2	216.8	226.3	227.8
152.5°	172.4	175.4	178.4	179.2	185.4	193.7	197.9	203.2	214.1	222.2	223.3
155°	178.6	180.9	183.1	183.6	188.4	194.7	197.9	202.2	210.8	217.2	217.9
157.5°	183.2	185.3	187.5	188.0	191.3	195.7	197.9	201.2	207.9	212.9	213.4
160°	186.3	188.0	189.6	190.1	192.7	196.2	197.9	200.7	206.5	210.8	211.0
162.5°	189.4	190.6	191.9	192.2	194.1	196.6	197.9	200.3	205.1	208.8	209.1
165°	192.8	193.8	195.0	195.3	196.2	197.3	197.9	199.6	203.1	205.7	205.9
167.5°	195.8	196.3	196.9	197.1	197.8	198.8	199.2	200.4	202.6	204.3	204.4
170°	197.9	198.4	198.9	199.0	199.1	199.2	199.2	200.4	202.6	204.3	204.3
172.5°	198.9	199.0	199.2	199.2	199.2	199.2	199.2	200.1	201.9	203.2	203.1
175°	200.5	200.5	200.5	200.5	200.0	199.5	199.2	199.7	200.9	201.8	201.8
177.5°	200.5	200.5	200.5	200.5	200.1	199.7	199.5	199.9	200.8	201.5	201.4
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1455.8	1451.7	1455.8	1453.1	1454.4	1450.4	1438.3	1434.3	1438.3	1442.3	1442.3
5°	1473.2	1470.5	1473.2	1473.2	1471.9	1469.2	1455.8	1453.1	1455.8	1457.1	1454.4
7.5°	1478.6	1474.6	1478.6	1475.9	1475.9	1473.2	1459.8	1457.1	1458.5	1462.5	1458.5
10°	1478.6	1474.6	1478.6	1477.3	1475.9	1473.2	1459.8	1454.4	1454.4	1458.5	1454.4
12.5°	1471.9	1469.2	1471.9	1469.2	1469.2	1466.5	1453.1	1447.7	1449.1	1450.4	1445.0
15°	1461.1	1457.1	1461.1	1458.5	1459.8	1455.8	1441.0	1435.6	1435.6	1438.3	1428.9
17.5°	1445.0	1439.7	1445.0	1443.7	1442.3	1439.7	1426.2	1420.9	1419.5	1420.9	1414.1
20°	1426.2	1422.2	1426.2	1424.9	1424.9	1419.5	1406.1	1399.4	1399.4	1399.4	1392.7
22.5°	1396.7	1392.7	1396.7	1399.4	1399.4	1398.0	1385.9	1376.5	1373.9	1373.9	1365.8
25°	1363.1	1359.1	1363.1	1363.1	1361.8	1363.1	1359.1	1353.7	1349.7	1345.7	1337.6
27.5°	1330.9	1328.2	1330.9	1328.2	1330.9	1326.9	1325.5	1324.2	1318.8	1314.8	1304.0
30°	1298.7	1296.0	1298.7	1296.0	1293.3	1290.6	1283.9	1281.2	1286.6	1283.9	1266.4
32.5°	1258.4	1255.7	1258.4	1258.4	1255.7	1255.7	1244.9	1240.9	1242.2	1250.3	1234.2
35°	1216.7	1212.7	1216.7	1215.4	1216.7	1212.7	1206.0	1204.6	1199.3	1208.7	1196.6
37.5°	1168.4	1164.4	1168.4	1168.4	1168.4	1171.1	1165.7	1161.7	1153.6	1165.7	1156.3
40°	1118.7	1113.3	1118.7	1117.3	1118.7	1121.4	1118.7	1116.0	1107.9	1117.3	1109.3
42.5°	1062.3	1060.9	1062.3	1063.6	1063.6	1069.0	1073.0	1067.7	1065.0	1058.3	1063.6
45°	1001.9	999.2	1001.9	1004.5	1005.9	1008.6	1020.7	1020.7	1016.6	1005.9	1013.9
47.5°	937.4	930.7	937.4	945.4	945.4	949.5	961.6	971.0	964.3	950.8	954.9
50°	868.9	870.2	868.9	874.3	874.3	889.0	898.4	907.8	914.6	898.4	879.6
52.5°	801.8	800.4	801.8	805.8	811.2	817.9	834.0	843.4	854.1	844.7	815.2
55°	734.6	737.3	734.6	735.9	738.6	742.7	766.8	776.2	796.4	784.3	753.4
57.5°	667.5	663.4	667.5	670.1	671.5	675.5	695.7	713.1	725.2	726.5	688.9
60°	589.6	584.2	589.6	601.6	604.3	607.0	625.8	641.9	652.7	656.7	617.8
62.5°	521.1	511.7	521.1	529.1	534.5	541.2	554.6	578.8	588.2	589.6	534.5
65°	448.6	444.5	448.6	464.7	466.0	474.1	488.8	506.3	526.4	523.8	444.5
67.5°	382.7	382.7	382.7	393.5	401.5	405.6	424.4	432.4	458.0	460.6	370.7
70°	322.3	321.0	322.3	330.4	335.7	345.1	362.6	372.0	392.1	398.9	300.8
72.5°	264.6	263.2	264.6	271.3	276.7	284.7	299.5	310.2	327.7	335.7	233.7
75°	213.5	210.8	213.5	218.9	217.6	228.3	240.4	251.1	267.3	272.6	173.2
77.5°	163.8	163.8	163.8	169.2	169.2	180.0	185.3	198.8	208.2	216.2	127.6
80°	122.2	120.9	122.2	123.6	123.6	128.9	138.3	147.7	155.8	155.8	87.3
82.5°	85.9	83.3	85.9	85.9	85.9	88.6	94.0	96.7	102.1	106.1	55.1
85°	53.7	53.7	53.7	55.1	53.7	56.4	57.7	60.4	60.4	57.7	33.6
87.5°	34.9	33.6	34.9	33.6	33.6	32.2	32.2	32.2	30.9	29.5	18.8
90°	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.8	5.9	3.8
92.5°	20.4	16.4	20.4	24.5	25.5	36.2	50.4	57.6	50.6	36.5	26.0
95°	71.4	59.1	71.4	83.7	86.8	113.9	150.1	168.2	142.1	89.8	50.6
97.5°	171.0	147.5	171.0	194.5	200.3	217.5	240.3	251.8	208.2	121.0	55.5
100°	246.4	218.5	246.4	274.2	281.2	280.0	278.3	277.5	229.1	132.3	59.7
102.5°	320.5	296.6	320.5	344.4	350.4	328.5	299.3	284.7	235.6	137.5	63.9
105°	415.1	402.2	415.1	427.9	431.1	382.0	316.6	283.9	236.4	141.4	70.1
107.5°	476.9	480.1	476.9	473.9	473.1	404.7	313.4	267.8	225.9	142.1	79.2
110°	500.6	514.0	500.6	487.1	483.8	407.4	305.4	254.4	216.6	141.0	84.3



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	502.6	523.2	502.6	482.0	476.9	398.7	294.3	242.1	208.4	141.0	90.5
115°	489.3	517.8	489.3	460.8	453.7	378.3	277.7	227.4	199.0	142.4	99.8
117.5°	461.1	492.7	461.1	429.4	421.5	353.5	262.8	217.4	193.2	145.0	108.8
120°	438.3	469.1	438.3	407.6	399.9	337.7	254.8	213.4	191.3	147.2	114.1
122.5°	416.1	446.4	416.1	385.9	378.3	322.2	247.6	210.2	190.3	150.2	120.2
125°	384.4	412.4	384.4	356.6	349.6	302.1	238.6	206.9	189.4	154.4	128.2
127.5°	356.1	379.6	356.1	332.5	326.6	285.8	231.3	204.0	188.9	158.6	135.8
130°	339.2	361.0	339.2	317.5	312.0	275.7	227.2	203.0	189.2	161.6	140.9
132.5°	324.0	343.5	324.0	304.5	299.7	267.2	223.7	202.1	189.4	164.1	145.1
135°	303.2	320.0	303.2	286.4	282.2	255.0	218.6	200.5	189.3	166.8	150.0
137.5°	286.5	300.2	286.5	272.7	269.3	246.3	215.6	200.2	190.4	170.8	156.1
140°	275.0	287.8	275.0	262.1	258.9	239.0	212.5	199.2	190.6	173.3	160.4
142.5°	265.5	276.6	265.5	254.4	251.7	234.2	210.8	199.2	191.2	175.3	163.4
145°	251.2	259.6	251.2	242.8	240.7	226.4	207.4	197.9	191.2	178.1	168.1
147.5°	240.3	247.2	240.3	233.3	231.6	220.3	205.4	197.9	192.6	182.0	174.0
150°	233.4	239.0	233.4	227.8	226.3	216.8	204.2	197.9	193.3	184.1	177.2
152.5°	227.5	231.8	227.5	223.3	222.2	214.1	203.2	197.9	193.7	185.4	179.2
155°	220.7	223.6	220.7	217.9	217.2	210.8	202.2	197.9	194.7	188.4	183.6
157.5°	215.4	217.4	215.4	213.4	212.9	207.9	201.2	197.9	195.7	191.3	188.0
160°	212.2	213.4	212.2	211.0	210.8	206.5	200.7	197.9	196.2	192.7	190.1
162.5°	210.1	211.2	210.1	209.1	208.8	205.1	200.3	197.9	196.6	194.1	192.2
165°	207.1	208.2	207.1	205.9	205.7	203.1	199.6	197.9	197.3	196.2	195.3
167.5°	204.9	205.4	204.9	204.4	204.3	202.6	200.4	199.2	198.8	197.8	197.1
170°	204.3	204.3	204.3	204.3	204.3	202.6	200.4	199.2	199.2	199.1	199.0
172.5°	202.7	202.3	202.7	203.1	203.2	201.9	200.1	199.2	199.2	199.2	199.2
175°	201.8	201.8	201.8	201.8	201.8	200.9	199.7	199.2	199.5	200.0	200.5
177.5°	200.9	200.5	200.9	201.4	201.5	200.8	199.9	199.5	199.7	200.1	200.5
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1439.7	1431.6	1431.6	1418.2	1412.8	1408.8	1402.1	1381.9	1376.5	1371.2	1379.2
5°	1451.7	1437.0	1426.2	1402.1	1381.9	1373.9	1348.3	1300.0	1267.8	1243.6	1230.2
7.5°	1454.4	1435.6	1415.5	1377.9	1329.5	1308.1	1230.2	1141.5	1117.3	1095.9	1082.4
10°	1451.7	1430.3	1402.1	1345.7	1231.5	1193.9	1116.0	1058.3	1043.5	1039.5	1043.5
12.5°	1442.3	1422.2	1383.3	1289.2	1129.4	1103.9	1058.3	1024.7	1022.0	1028.7	1065.0
15°	1426.2	1407.4	1361.8	1214.0	1073.0	1054.2	1022.0	1009.9	1024.7	1071.7	1180.5
17.5°	1410.1	1388.6	1332.2	1140.2	1030.1	1016.6	993.8	1018.0	1101.2	1164.4	1200.6
20°	1388.6	1363.1	1298.7	1086.5	999.2	987.1	976.3	1085.1	1148.2	1171.1	1191.2
22.5°	1363.1	1336.3	1253.0	1048.9	966.9	957.5	964.3	1122.7	1148.2	1164.4	1181.8
25°	1329.5	1306.7	1199.3	1019.3	941.4	930.7	956.2	1118.7	1133.5	1137.5	1172.4
27.5°	1298.7	1269.1	1142.9	992.5	910.5	906.5	962.9	1101.2	1112.0	1116.0	1153.6
30°	1261.0	1216.7	1079.7	964.3	878.3	877.0	964.3	1079.7	1077.1	1087.8	1125.4
32.5°	1222.1	1138.8	1008.6	929.3	847.4	846.1	954.9	1047.5	1044.8	1059.6	1087.8
35°	1185.8	1078.4	911.9	889.0	808.5	809.8	932.0	1009.9	1011.3	1024.7	1042.1
37.5°	1148.2	1026.0	805.8	844.7	770.9	770.9	901.1	975.0	972.3	976.3	1000.5
40°	1103.9	944.1	711.8	787.0	735.9	731.9	863.5	937.4	928.0	926.6	960.2
42.5°	1056.9	854.1	641.9	710.4	695.7	690.3	817.9	891.7	874.3	878.3	921.3
45°	1005.9	830.0	588.2	600.3	654.0	650.0	768.2	839.4	827.3	838.0	882.3
47.5°	954.9	781.6	570.8	498.2	609.7	608.4	713.1	788.3	781.6	792.4	839.4
50°	885.0	727.9	569.4	427.1	560.0	565.4	647.3	738.6	738.6	748.0	797.7
52.5°	795.0	662.1	517.0	386.8	502.3	518.4	589.6	695.7	698.3	707.7	752.1
55°	713.1	593.6	479.4	355.9	433.8	468.7	533.2	651.3	656.7	666.1	706.4
57.5°	637.9	494.2	471.4	319.6	370.7	404.2	483.5	608.4	611.1	619.1	658.1
60°	557.3	357.2	432.4	280.7	315.6	341.1	437.8	557.3	566.7	572.1	605.7
62.5°	466.0	259.2	392.1	253.8	288.7	294.1	400.2	509.0	521.1	525.1	545.2
65°	331.7	217.6	333.1	231.0	260.5	261.9	359.9	459.3	470.0	476.8	491.5
67.5°	224.3	177.3	253.8	209.5	239.0	240.4	321.0	401.5	416.3	421.7	431.1
70°	155.8	118.2	188.0	186.7	214.9	217.6	279.3	349.2	362.6	366.6	372.0
72.5°	114.2	95.4	155.8	167.9	189.4	192.0	236.4	290.1	303.5	307.5	310.2
75°	87.3	100.7	126.2	146.4	161.2	162.5	193.4	236.4	245.8	248.4	249.8
77.5°	69.8	94.0	92.7	118.2	131.6	128.9	151.8	182.6	190.7	190.7	190.7
80°	52.4	73.9	69.8	84.6	96.7	94.0	108.8	130.3	133.0	135.6	134.3
82.5°	38.9	47.0	47.0	53.7	64.5	61.8	72.5	84.6	84.6	84.6	87.3
85°	24.2	26.9	21.5	28.2	36.3	34.9	40.3	45.7	47.0	47.0	44.3
87.5°	14.8	12.1	6.7	10.7	16.1	16.1	18.8	20.1	18.8	18.8	18.8
90°	3.5	2.4	1.3	2.4	3.5	3.8	5.9	8.8	10.2	9.0	6.8
92.5°	23.6	14.5	5.4	14.5	23.6	26.0	36.5	50.6	57.6	50.4	36.2
95°	46.4	29.6	12.9	29.6	46.4	50.6	89.8	142.1	168.2	150.1	113.9
97.5°	51.8	37.1	22.3	37.1	51.8	55.5	121.0	208.2	251.8	240.3	217.5
100°	56.4	43.0	29.6	43.0	56.4	59.7	132.3	229.1	277.5	278.3	280.0
102.5°	60.8	48.3	35.8	48.3	60.8	63.9	137.5	235.6	284.7	299.3	328.5
105°	67.4	56.9	46.3	56.9	67.4	70.1	141.4	236.4	283.9	316.6	382.0
107.5°	76.7	66.9	57.0	66.9	76.7	79.2	142.1	225.9	267.8	313.4	404.7
110°	82.1	73.2	64.3	73.2	82.1	84.3	141.0	216.6	254.4	305.4	407.4



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	88.4	80.0	71.4	80.0	88.4	90.5	141.0	208.4	242.1	294.3	398.7
115°	97.9	90.1	82.2	90.1	97.9	99.8	142.4	199.0	227.4	277.7	378.3
117.5°	107.0	99.9	92.8	99.9	107.0	108.8	145.0	193.2	217.4	262.8	353.5
120°	112.4	105.7	99.0	105.7	112.4	114.1	147.2	191.3	213.4	254.8	337.7
122.5°	118.5	111.8	105.0	111.8	118.5	120.2	150.2	190.3	210.2	247.6	322.2
125°	126.7	120.5	114.3	120.5	126.7	128.2	154.4	189.4	206.9	238.6	302.1
127.5°	134.3	128.0	121.9	128.0	134.3	135.8	158.6	188.9	204.0	231.3	285.8
130°	139.2	132.6	125.9	132.6	139.2	140.9	161.6	189.2	203.0	227.2	275.7
132.5°	143.4	136.8	130.1	136.8	143.4	145.1	164.1	189.4	202.1	223.7	267.2
135°	148.4	142.4	136.3	142.4	148.4	150.0	166.8	189.3	200.5	218.6	255.0
137.5°	154.6	148.6	142.6	148.6	154.6	156.1	170.8	190.4	200.2	215.6	246.3
140°	158.9	153.4	147.8	153.4	158.9	160.4	173.3	190.6	199.2	212.5	239.0
142.5°	162.1	156.9	151.8	156.9	162.1	163.4	175.3	191.2	199.2	210.8	234.2
145°	167.0	162.5	158.0	162.5	167.0	168.1	178.1	191.2	197.9	207.4	226.4
147.5°	173.0	168.6	164.2	168.6	173.0	174.0	182.0	192.6	197.9	205.4	220.3
150°	176.2	172.2	168.2	172.2	176.2	177.2	184.1	193.3	197.9	204.2	216.8
152.5°	178.4	175.4	172.4	175.4	178.4	179.2	185.4	193.7	197.9	203.2	214.1
155°	183.1	180.9	178.6	180.9	183.1	183.6	188.4	194.7	197.9	202.2	210.8
157.5°	187.5	185.3	183.2	185.3	187.5	188.0	191.3	195.7	197.9	201.2	207.9
160°	189.6	188.0	186.3	188.0	189.6	190.1	192.7	196.2	197.9	200.7	206.5
162.5°	191.9	190.6	189.4	190.6	191.9	192.2	194.1	196.6	197.9	200.3	205.1
165°	195.0	193.8	192.8	193.8	195.0	195.3	196.2	197.3	197.9	199.6	203.1
167.5°	196.9	196.3	195.8	196.3	196.9	197.1	197.8	198.8	199.2	200.4	202.6
170°	198.9	198.4	197.9	198.4	198.9	199.0	199.1	199.2	199.2	200.4	202.6
172.5°	199.2	199.0	198.9	199.0	199.2	199.2	199.2	199.2	199.2	200.1	201.9
175°	200.5	200.5	200.5	200.5	200.5	200.5	200.0	199.5	199.2	199.7	200.9
177.5°	200.5	200.5	200.5	200.5	200.5	200.5	200.1	199.7	199.5	199.9	200.8
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1369.8	1365.8	1371.2	1356.4	1371.2	1365.8	1369.8	1379.2	1371.2	1376.5	1381.9
5°	1202.0	1195.2	1173.8	1156.3	1173.8	1195.2	1202.0	1230.2	1243.6	1267.8	1300.0
7.5°	1074.4	1069.0	1063.6	1052.9	1063.6	1069.0	1074.4	1082.4	1095.9	1117.3	1141.5
10°	1046.2	1047.5	1055.6	1054.2	1055.6	1047.5	1046.2	1043.5	1039.5	1043.5	1058.3
12.5°	1118.7	1130.8	1175.1	1172.4	1175.1	1130.8	1118.7	1065.0	1028.7	1022.0	1024.7
15°	1202.0	1206.0	1215.4	1216.7	1215.4	1206.0	1202.0	1180.5	1071.7	1024.7	1009.9
17.5°	1210.0	1211.4	1218.1	1218.1	1218.1	1211.4	1210.0	1200.6	1164.4	1101.2	1018.0
20°	1203.3	1206.0	1219.4	1222.1	1219.4	1206.0	1203.3	1191.2	1171.1	1148.2	1085.1
22.5°	1200.6	1206.0	1216.7	1215.4	1216.7	1206.0	1200.6	1181.8	1164.4	1148.2	1122.7
25°	1187.2	1187.2	1188.5	1189.9	1188.5	1187.2	1187.2	1172.4	1137.5	1133.5	1118.7
27.5°	1159.0	1161.7	1169.7	1168.4	1169.7	1161.7	1159.0	1153.6	1116.0	1112.0	1101.2
30°	1133.5	1130.8	1124.1	1118.7	1124.1	1130.8	1133.5	1125.4	1087.8	1077.1	1079.7
32.5°	1090.5	1083.8	1077.1	1073.0	1077.1	1083.8	1090.5	1087.8	1059.6	1044.8	1047.5
35°	1039.5	1040.8	1039.5	1035.4	1039.5	1040.8	1039.5	1042.1	1024.7	1011.3	1009.9
37.5°	1003.2	1005.9	1004.5	999.2	1004.5	1005.9	1003.2	1000.5	976.3	972.3	975.0
40°	965.6	966.9	965.6	961.6	965.6	966.9	965.6	960.2	926.6	928.0	937.4
42.5°	929.3	928.0	924.0	921.3	924.0	928.0	929.3	921.3	878.3	874.3	891.7
45°	887.7	889.0	881.0	877.0	881.0	889.0	887.7	882.3	838.0	827.3	839.4
47.5°	846.1	846.1	839.4	835.3	839.4	846.1	846.1	839.4	792.4	781.6	788.3
50°	801.8	800.4	791.0	789.7	791.0	800.4	801.8	797.7	748.0	738.6	738.6
52.5°	750.7	750.7	752.1	754.7	752.1	750.7	750.7	752.1	707.7	698.3	695.7
55°	706.4	707.7	717.1	719.8	717.1	707.7	706.4	706.4	666.1	656.7	651.3
57.5°	660.7	660.7	667.5	667.5	667.5	660.7	660.7	658.1	619.1	611.1	608.4
60°	608.4	611.1	616.4	615.1	616.4	611.1	608.4	605.7	572.1	566.7	557.3
62.5°	553.3	556.0	557.3	554.6	557.3	556.0	553.3	545.2	525.1	521.1	509.0
65°	495.6	498.2	499.6	496.9	499.6	498.2	495.6	491.5	476.8	470.0	459.3
67.5°	436.5	435.1	433.8	439.2	433.8	435.1	436.5	431.1	421.7	416.3	401.5
70°	376.0	376.0	374.7	377.4	374.7	376.0	376.0	372.0	366.6	362.6	349.2
72.5°	311.6	310.2	315.6	311.6	315.6	310.2	311.6	310.2	307.5	303.5	290.1
75°	248.4	251.1	248.4	252.5	248.4	251.1	248.4	249.8	248.4	245.8	236.4
77.5°	189.4	192.0	189.4	189.4	189.4	192.0	189.4	190.7	190.7	190.7	182.6
80°	134.3	133.0	133.0	131.6	133.0	133.0	134.3	134.3	135.6	133.0	130.3
82.5°	85.9	84.6	84.6	87.3	84.6	84.6	85.9	87.3	84.6	84.6	84.6
85°	47.0	48.3	45.7	45.7	45.7	48.3	47.0	44.3	47.0	47.0	45.7
87.5°	17.5	16.1	16.1	16.1	16.1	16.1	17.5	18.8	18.8	18.8	20.1
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	9.0	10.2	8.8
92.5°	25.5	24.5	20.4	16.4	20.4	24.5	25.5	36.2	50.4	57.6	50.6
95°	86.8	83.7	71.4	59.1	71.4	83.7	86.8	113.9	150.1	168.2	142.1
97.5°	200.3	194.5	171.0	147.5	171.0	194.5	200.3	217.5	240.3	251.8	208.2
100°	281.2	274.2	246.4	218.5	246.4	274.2	281.2	280.0	278.3	277.5	229.1
102.5°	350.4	344.4	320.5	296.6	320.5	344.4	350.4	328.5	299.3	284.7	235.6
105°	431.1	427.9	415.1	402.2	415.1	427.9	431.1	382.0	316.6	283.9	236.4
107.5°	473.1	473.9	476.9	480.1	476.9	473.9	473.1	404.7	313.4	267.8	225.9
110°	483.8	487.1	500.6	514.0	500.6	487.1	483.8	407.4	305.4	254.4	216.6



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	476.9	482.0	502.6	523.2	502.6	482.0	476.9	398.7	294.3	242.1	208.4
115°	453.7	460.8	489.3	517.8	489.3	460.8	453.7	378.3	277.7	227.4	199.0
117.5°	421.5	429.4	461.1	492.7	461.1	429.4	421.5	353.5	262.8	217.4	193.2
120°	399.9	407.6	438.3	469.1	438.3	407.6	399.9	337.7	254.8	213.4	191.3
122.5°	378.3	385.9	416.1	446.4	416.1	385.9	378.3	322.2	247.6	210.2	190.3
125°	349.6	356.6	384.4	412.4	384.4	356.6	349.6	302.1	238.6	206.9	189.4
127.5°	326.6	332.5	356.1	379.6	356.1	332.5	326.6	285.8	231.3	204.0	188.9
130°	312.0	317.5	339.2	361.0	339.2	317.5	312.0	275.7	227.2	203.0	189.2
132.5°	299.7	304.5	324.0	343.5	324.0	304.5	299.7	267.2	223.7	202.1	189.4
135°	282.2	286.4	303.2	320.0	303.2	286.4	282.2	255.0	218.6	200.5	189.3
137.5°	269.3	272.7	286.5	300.2	286.5	272.7	269.3	246.3	215.6	200.2	190.4
140°	258.9	262.1	275.0	287.8	275.0	262.1	258.9	239.0	212.5	199.2	190.6
142.5°	251.7	254.4	265.5	276.6	265.5	254.4	251.7	234.2	210.8	199.2	191.2
145°	240.7	242.8	251.2	259.6	251.2	242.8	240.7	226.4	207.4	197.9	191.2
147.5°	231.6	233.3	240.3	247.2	240.3	233.3	231.6	220.3	205.4	197.9	192.6
150°	226.3	227.8	233.4	239.0	233.4	227.8	226.3	216.8	204.2	197.9	193.3
152.5°	222.2	223.3	227.5	231.8	227.5	223.3	222.2	214.1	203.2	197.9	193.7
155°	217.2	217.9	220.7	223.6	220.7	217.9	217.2	210.8	202.2	197.9	194.7
157.5°	212.9	213.4	215.4	217.4	215.4	213.4	212.9	207.9	201.2	197.9	195.7
160°	210.8	211.0	212.2	213.4	212.2	211.0	210.8	206.5	200.7	197.9	196.2
162.5°	208.8	209.1	210.1	211.2	210.1	209.1	208.8	205.1	200.3	197.9	196.6
165°	205.7	205.9	207.1	208.2	207.1	205.9	205.7	203.1	199.6	197.9	197.3
167.5°	204.3	204.4	204.9	205.4	204.9	204.4	204.3	202.6	200.4	199.2	198.8
170°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	202.6	200.4	199.2	199.2
172.5°	203.2	203.1	202.7	202.3	202.7	203.1	203.2	201.9	200.1	199.2	199.2
175°	201.8	201.8	201.8	201.8	201.8	201.8	201.8	200.9	199.7	199.2	199.5
177.5°	201.5	201.4	200.9	200.5	200.9	201.4	201.5	200.8	199.9	199.5	199.7
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1402.1	1408.8	1412.8	1418.2	1431.6
5°	1348.3	1373.9	1381.9	1402.1	1426.2
7.5°	1230.2	1308.1	1329.5	1377.9	1415.5
10°	1116.0	1193.9	1231.5	1345.7	1402.1
12.5°	1058.3	1103.9	1129.4	1289.2	1383.3
15°	1022.0	1054.2	1073.0	1214.0	1361.8
17.5°	993.8	1016.6	1030.1	1140.2	1332.2
20°	976.3	987.1	999.2	1086.5	1298.7
22.5°	964.3	957.5	966.9	1048.9	1253.0
25°	956.2	930.7	941.4	1019.3	1199.3
27.5°	962.9	906.5	910.5	992.5	1142.9
30°	964.3	877.0	878.3	964.3	1079.7
32.5°	954.9	846.1	847.4	929.3	1008.6
35°	932.0	809.8	808.5	889.0	911.9
37.5°	901.1	770.9	770.9	844.7	805.8
40°	863.5	731.9	735.9	787.0	711.8
42.5°	817.9	690.3	695.7	710.4	641.9
45°	768.2	650.0	654.0	600.3	588.2
47.5°	713.1	608.4	609.7	498.2	570.8
50°	647.3	565.4	560.0	427.1	569.4
52.5°	589.6	518.4	502.3	386.8	517.0
55°	533.2	468.7	433.8	355.9	479.4
57.5°	483.5	404.2	370.7	319.6	471.4
60°	437.8	341.1	315.6	280.7	432.4
62.5°	400.2	294.1	288.7	253.8	392.1
65°	359.9	261.9	260.5	231.0	333.1
67.5°	321.0	240.4	239.0	209.5	253.8
70°	279.3	217.6	214.9	186.7	188.0
72.5°	236.4	192.0	189.4	167.9	155.8
75°	193.4	162.5	161.2	146.4	126.2
77.5°	151.8	128.9	131.6	118.2	92.7
80°	108.8	94.0	96.7	84.6	69.8
82.5°	72.5	61.8	64.5	53.7	47.0
85°	40.3	34.9	36.3	28.2	21.5
87.5°	18.8	16.1	16.1	10.7	6.7
90°	5.9	3.8	3.5	2.4	1.3
92.5°	36.5	26.0	23.6	14.5	5.4
95°	89.8	50.6	46.4	29.6	12.9
97.5°	121.0	55.5	51.8	37.1	22.3
100°	132.3	59.7	56.4	43.0	29.6
102.5°	137.5	63.9	60.8	48.3	35.8
105°	141.4	70.1	67.4	56.9	46.3
107.5°	142.1	79.2	76.7	66.9	57.0
110°	141.0	84.3	82.1	73.2	64.3



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	141.0	90.5	88.4	80.0	71.4
115°	142.4	99.8	97.9	90.1	82.2
117.5°	145.0	108.8	107.0	99.9	92.8
120°	147.2	114.1	112.4	105.7	99.0
122.5°	150.2	120.2	118.5	111.8	105.0
125°	154.4	128.2	126.7	120.5	114.3
127.5°	158.6	135.8	134.3	128.0	121.9
130°	161.6	140.9	139.2	132.6	125.9
132.5°	164.1	145.1	143.4	136.8	130.1
135°	166.8	150.0	148.4	142.4	136.3
137.5°	170.8	156.1	154.6	148.6	142.6
140°	173.3	160.4	158.9	153.4	147.8
142.5°	175.3	163.4	162.1	156.9	151.8
145°	178.1	168.1	167.0	162.5	158.0
147.5°	182.0	174.0	173.0	168.6	164.2
150°	184.1	177.2	176.2	172.2	168.2
152.5°	185.4	179.2	178.4	175.4	172.4
155°	188.4	183.6	183.1	180.9	178.6
157.5°	191.3	188.0	187.5	185.3	183.2
160°	192.7	190.1	189.6	188.0	186.3
162.5°	194.1	192.2	191.9	190.6	189.4
165°	196.2	195.3	195.0	193.8	192.8
167.5°	197.8	197.1	196.9	196.3	195.8
170°	199.1	199.0	198.9	198.4	197.9
172.5°	199.2	199.2	199.2	199.0	198.9
175°	200.0	200.5	200.5	200.5	200.5
177.5°	200.1	200.5	200.5	200.5	200.5
180°	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P933962

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-6-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.32	15.44	15.04	16.18	17.07	17.14	18.27	17.86	19.01	19.89
	3H	14.81	15.83	15.55	16.58	17.49	18.50	19.52	19.24	20.27	21.18
	4H	15.02	15.97	15.77	16.73	17.66	18.96	19.91	19.71	20.67	21.60
	6H	15.15	16.03	15.92	16.80	17.74	19.26	20.14	20.02	20.91	21.85
	8H	15.16	16.00	15.93	16.79	17.73	19.34	20.18	20.11	20.97	21.91
	12H	15.14	15.94	15.92	16.72	17.69	19.38	20.18	20.17	20.97	21.94
4H	2H	15.38	16.33	16.14	17.09	18.02	17.58	18.54	18.34	19.30	20.22
	3H	16.43	17.23	17.20	18.02	18.97	19.11	19.91	19.88	20.70	21.65
	4H	16.72	17.44	17.50	18.24	19.21	19.65	20.37	20.43	21.17	22.14
	6H	16.86	17.48	17.66	18.31	19.28	20.03	20.65	20.83	21.47	22.45
	8H	16.87	17.45	17.68	18.27	19.26	20.14	20.72	20.94	21.54	22.53
	12H	16.85	17.38	17.68	18.21	19.21	20.21	20.73	21.03	21.57	22.57
8H	4H	17.19	17.78	18.00	18.59	19.59	19.79	20.38	20.60	21.20	22.19
	6H	17.46	17.95	18.30	18.81	19.80	20.24	20.72	21.07	21.58	22.58
	8H	17.51	17.94	18.36	18.80	19.81	20.39	20.82	21.24	21.68	22.69
	12H	17.51	17.89	18.35	18.73	19.80	20.50	20.88	21.35	21.73	22.79
12H	4H	17.21	17.74	18.04	18.58	19.57	19.77	20.30	20.60	21.14	22.13
	6H	17.53	17.96	18.37	18.81	19.82	20.24	20.67	21.08	21.53	22.54
	8H	17.61	17.99	18.45	18.83	19.90	20.41	20.79	21.26	21.64	22.70