

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: P934362

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934362
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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: -

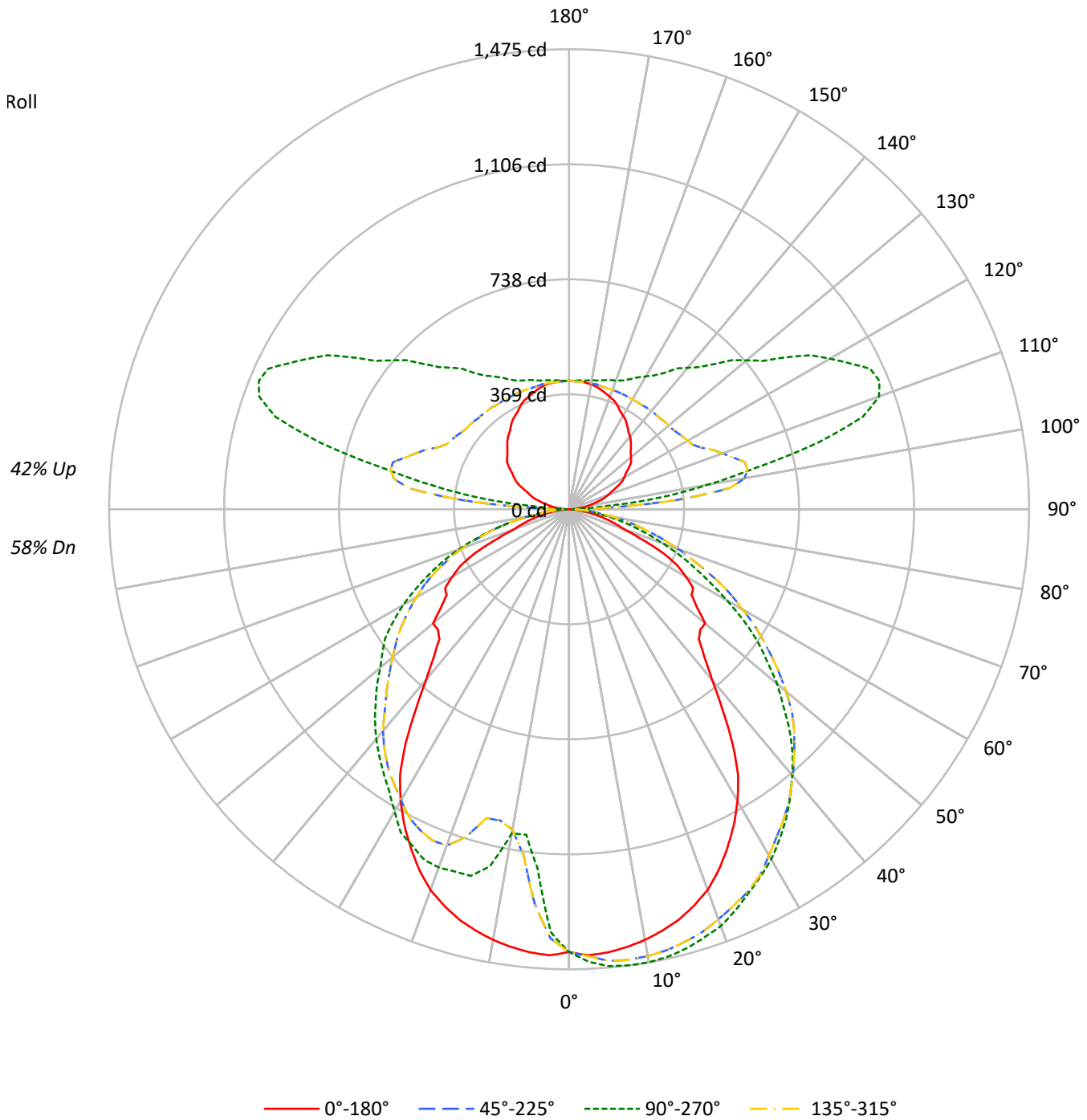
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6355.8 lumens
Efficiency: N/A
Efficacy: 116.4 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: General Diffuse

Input Watts (W): 54.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

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	2.0
10°-20°	363.8	5.7
20°-30°	562.4	8.8
30°-40°	671.4	10.6
40°-50°	675.3	10.6
50°-60°	587.6	9.2
60°-70°	416.6	6.6
70°-80°	220.4	3.5
80°-90°	56.5	0.9
90°-100°	201.0	3.2
100°-110°	528.5	8.3
110°-120°	548.0	8.6
120°-130°	439.6	6.9
130°-140°	344.9	5.4
140°-150°	264.7	4.2
150°-160°	190.7	3.0
160°-170°	116.7	1.8
170°-180°	39.4	0.6
0°-30°	1054.3	16.6
0°-40°	1725.7	27.2
0°-60°	2988.6	47.0
0°-90°	3682.1	57.9
90°-120°	1277.6	20.1
90°-150°	2326.9	36.6
90°-180°	2674.0	42.1
0°-180°	6355.8	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°	3	10	3	10	3	3
95°	27	122	27	122	27	30
105°	95	828	95	828	95	101
115°	169	1066	169	1066	169	167
125°	235	849	235	849	235	209
135°	280	658	280	658	280	217
145°	325	534	325	534	325	204
155°	368	460	368	460	368	169
165°	397	428	397	428	397	112
175°	412	415	412	415	412	39
180°	412	412	412	412	412	



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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°	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5	52.6	50.5
95°	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5	178.5	172.2
97.5°	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5	412.1	400.0
100°	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2	578.8	564.5
102.5°	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1	721.1	708.8
105°	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2	887.2	880.5
107.5°	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6	973.5	975.1
110°	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3	995.7	1002.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5	981.5	992.1
115°	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5	933.6	948.3
117.5°	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4	867.5	883.8
120°	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9	822.9	838.7
122.5°	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2	778.4	794.0
125°	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5	719.4	733.7
127.5°	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0	672.0	684.1
130°	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4	642.2	653.4
132.5°	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7	616.7	626.7
135°	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7	580.7	589.4
137.5°	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7	554.1	561.2
140°	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9	532.8	539.4
142.5°	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9	517.8	523.6
145°	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0	495.5	499.8
147.5°	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5	476.7	480.2
150°	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3	465.8	468.7
152.5°	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6	457.2	459.4
155°	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8	447.0	448.5
157.5°	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9	438.2	439.2
160°	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9	433.8	434.3
162.5°	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1	429.6	430.1
165°	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8	423.2	423.8
167.5°	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9	420.4	420.7
170°	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9	420.4	420.4
172.5°	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4	418.2	418.0
175°	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5	415.2	415.2
177.5°	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3	414.6	414.4
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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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°	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1	12.2	7.8
92.5°	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0	75.1	53.5
95°	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5	184.8	104.0
97.5°	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5	249.0	114.3
100°	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5	272.3	122.9
102.5°	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0	283.0	131.5
105°	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5	290.9	144.2
107.5°	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8	292.4	163.0
110°	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7	290.2	173.5



TEST NUMBER: P934362

CATALOG NUMBER: SQ4-FA-050U-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°	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9	290.3	186.3
115°	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7	292.9	205.4
117.5°	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7	298.4	223.9
120°	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6	302.8	234.8
122.5°	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4	309.2	247.5
125°	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7	317.7	263.8
127.5°	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7	326.3	279.6
130°	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3	332.6	290.1
132.5°	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7	337.7	298.7
135°	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4	343.3	308.6
137.5°	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7	351.5	321.3
140°	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1	356.6	329.9
142.5°	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6	360.8	336.3
145°	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6	366.5	346.0
147.5°	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3	374.5	358.2
150°	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7	378.8	364.6
152.5°	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6	381.5	368.7
155°	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7	387.6	377.8
157.5°	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7	393.7	387.0
160°	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6	396.4	391.1
162.5°	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6	399.4	395.5
165°	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0	403.7	401.9
167.5°	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0	407.0	405.5
170°	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9	409.8	409.7
172.5°	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5	411.7	412.5
177.5°	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9	411.8	412.5
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934362

CATALOG NUMBER: SQ4-FA-050U-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°	7.3	5.0	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0
92.5°	48.7	29.9	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5
95°	95.4	61.0	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5
97.5°	106.7	76.4	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5
100°	116.0	88.5	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2
102.5°	125.1	99.4	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1
105°	138.8	117.0	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2
107.5°	157.9	137.7	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6
110°	168.9	150.6	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3



TEST NUMBER: P934362

CATALOG NUMBER: SQ4-FA-050U-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°	181.9	164.5	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5
115°	201.4	185.2	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5
117.5°	220.2	205.7	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4
120°	231.3	217.5	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9
122.5°	244.0	230.1	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2
125°	260.6	247.9	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5
127.5°	276.4	263.6	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0
130°	286.7	272.9	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4
132.5°	295.3	281.5	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7
135°	305.5	292.9	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7
137.5°	318.2	305.8	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7
140°	327.1	315.7	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9
142.5°	333.6	323.0	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9
145°	343.7	334.5	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0
147.5°	356.0	346.9	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5
150°	362.5	354.5	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3
152.5°	367.2	361.0	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6
155°	376.7	372.2	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8
157.5°	385.9	381.4	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9
160°	390.2	386.8	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9
162.5°	394.9	392.3	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1
165°	401.3	399.0	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8
167.5°	405.2	404.1	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9
170°	409.4	408.3	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9
172.5°	409.9	409.7	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4
175°	412.5	412.5	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5
177.5°	412.5	412.5	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934362

CATALOG NUMBER: SQ4-FA-050U-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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1
92.5°	52.6	50.5	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0
95°	178.5	172.2	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5
97.5°	412.1	400.0	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5
100°	578.8	564.5	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5
102.5°	721.1	708.8	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0
105°	887.2	880.5	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5
107.5°	973.5	975.1	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8
110°	995.7	1002.6	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7



TEST NUMBER: P934362

CATALOG NUMBER: SQ4-FA-050U-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°	981.5	992.1	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9
115°	933.6	948.3	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7
117.5°	867.5	883.8	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7
120°	822.9	838.7	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6
122.5°	778.4	794.0	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4
125°	719.4	733.7	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7
127.5°	672.0	684.1	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7
130°	642.2	653.4	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3
132.5°	616.7	626.7	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7
135°	580.7	589.4	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4
137.5°	554.1	561.2	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7
140°	532.8	539.4	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1
142.5°	517.8	523.6	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6
145°	495.5	499.8	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6
147.5°	476.7	480.2	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3
150°	465.8	468.7	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7
152.5°	457.2	459.4	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6
155°	447.0	448.5	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7
157.5°	438.2	439.2	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7
160°	433.8	434.3	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6
162.5°	429.6	430.1	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6
165°	423.2	423.8	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0
167.5°	420.4	420.7	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0
170°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9
172.5°	418.2	418.0	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5
177.5°	414.6	414.4	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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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°	12.2	7.8	7.3	5.0	2.8
92.5°	75.1	53.5	48.7	29.9	11.1
95°	184.8	104.0	95.4	61.0	26.6
97.5°	249.0	114.3	106.7	76.4	45.9
100°	272.3	122.9	116.0	88.5	60.9
102.5°	283.0	131.5	125.1	99.4	73.6
105°	290.9	144.2	138.8	117.0	95.3
107.5°	292.4	163.0	157.9	137.7	117.4
110°	290.2	173.5	168.9	150.6	132.3



TEST NUMBER: P934362

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	290.3	186.3	181.9	164.5	147.0
115°	292.9	205.4	201.4	185.2	169.1
117.5°	298.4	223.9	220.2	205.7	191.0
120°	302.8	234.8	231.3	217.5	203.7
122.5°	309.2	247.5	244.0	230.1	216.2
125°	317.7	263.8	260.6	247.9	235.3
127.5°	326.3	279.6	276.4	263.6	250.8
130°	332.6	290.1	286.7	272.9	259.1
132.5°	337.7	298.7	295.3	281.5	267.7
135°	343.3	308.6	305.5	292.9	280.4
137.5°	351.5	321.3	318.2	305.8	293.4
140°	356.6	329.9	327.1	315.7	304.2
142.5°	360.8	336.3	333.6	323.0	312.5
145°	366.5	346.0	343.7	334.5	325.3
147.5°	374.5	358.2	356.0	346.9	338.0
150°	378.8	364.6	362.5	354.5	346.3
152.5°	381.5	368.7	367.2	361.0	354.8
155°	387.6	377.8	376.7	372.2	367.6
157.5°	393.7	387.0	385.9	381.4	377.0
160°	396.4	391.1	390.2	386.8	383.4
162.5°	399.4	395.5	394.9	392.3	389.7
165°	403.7	401.9	401.3	399.0	396.6
167.5°	407.0	405.5	405.2	404.1	403.0
170°	409.8	409.7	409.4	408.3	407.2
172.5°	410.0	410.0	409.9	409.7	409.4
175°	411.7	412.5	412.5	412.5	412.5
177.5°	411.8	412.5	412.5	412.5	412.5
180°	412.5	412.5	412.5	412.5	412.5



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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	13.05	13.99	13.94	14.90	16.05	15.88	16.81	16.76	17.72	18.87
	3H	13.54	14.38	14.43	15.29	16.47	17.23	18.07	18.12	18.98	20.16
	4H	13.73	14.53	14.64	15.45	16.63	17.67	18.47	18.59	19.39	20.58
	6H	13.85	14.59	14.78	15.51	16.71	17.96	18.69	18.89	19.62	20.82
	8H	13.86	14.55	14.79	15.50	16.70	18.04	18.73	18.97	19.68	20.88
	12H	13.83	14.49	14.77	15.43	16.66	18.08	18.74	19.02	19.68	20.90
4H	2H	14.09	14.89	15.01	15.81	17.00	16.30	17.09	17.21	18.01	19.20
	3H	15.13	15.79	16.06	16.74	17.94	17.81	18.47	18.74	19.42	20.62
	4H	15.41	16.01	16.35	16.96	18.19	18.34	18.94	19.28	19.89	21.12
	6H	15.54	16.06	16.49	17.03	18.26	18.71	19.23	19.66	20.20	21.42
	8H	15.54	16.03	16.50	17.00	18.24	18.81	19.30	19.77	20.26	21.51
	12H	15.51	15.95	16.49	16.94	18.18	18.87	19.31	19.85	20.29	21.54
8H	4H	15.87	16.35	16.82	17.32	18.56	18.47	18.95	19.42	19.92	21.16
	6H	16.13	16.53	17.11	17.54	18.78	18.91	19.31	19.89	20.31	21.56
	8H	16.17	16.53	17.16	17.52	18.78	19.06	19.41	20.05	20.41	21.67
	12H	16.16	16.47	17.16	17.46	18.77	19.16	19.47	20.15	20.46	21.77
12H	4H	15.88	16.31	16.85	17.30	18.54	18.44	18.87	19.41	19.86	21.10
	6H	16.19	16.55	17.18	17.54	18.80	18.90	19.26	19.89	20.25	21.51
	8H	16.26	16.57	17.26	17.56	18.87	19.07	19.38	20.06	20.37	21.68