

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: P935162

Luminaire Tested: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935162
REPORT IS A COMBINATION OF REPORTS P933743 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-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: -

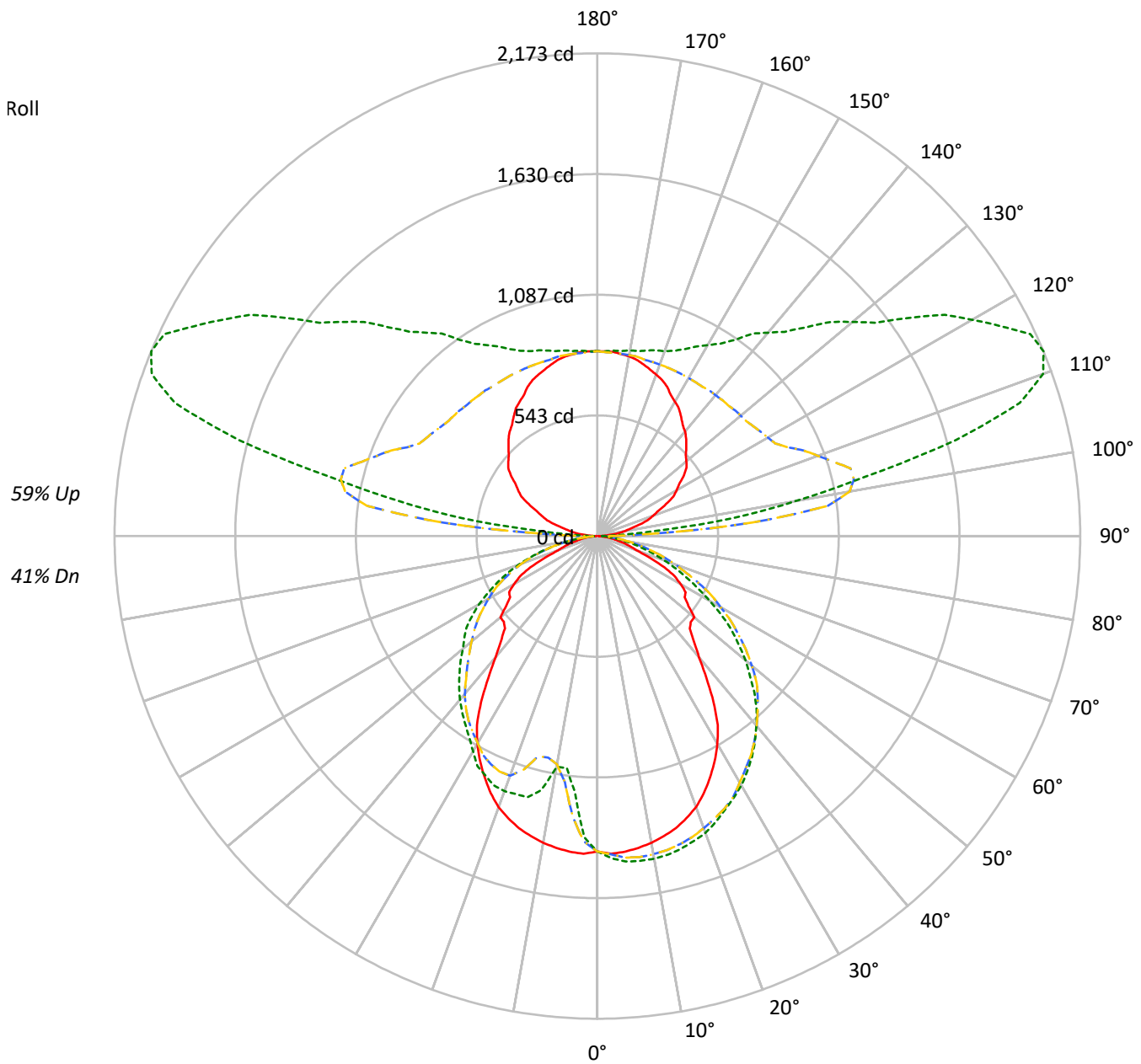
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9079.3 lumens
Efficiency: N/A
Efficacy: 123.0 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): 73.8
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

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

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	1.4
10°-20°	363.8	4.0
20°-30°	562.4	6.2
30°-40°	671.4	7.4
40°-50°	675.3	7.4
50°-60°	587.6	6.5
60°-70°	416.6	4.6
70°-80°	220.4	2.4
80°-90°	58.1	0.6
90°-100°	405.7	4.5
100°-110°	1066.6	11.7
110°-120°	1106.0	12.2
120°-130°	887.1	9.8
130°-140°	696.1	7.7
140°-150°	534.3	5.9
150°-160°	384.8	4.2
160°-170°	235.4	2.6
170°-180°	79.5	0.9
0°-30°	1054.3	11.6
0°-40°	1725.7	19.0
0°-60°	2988.6	32.9
0°-90°	3683.7	40.6
90°-120°	2578.3	28.4
90°-150°	4695.8	51.7
90°-180°	5396.0	59.4
0°-180°	9079.3	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°	6	21	6	21	6	6
95°	54	245	54	245	54	60
105°	192	1670	192	1670	192	204
115°	341	2151	341	2151	341	337
125°	475	1713	475	1713	475	422
135°	566	1329	566	1329	566	438
145°	656	1078	656	1078	656	411
155°	742	928	742	928	742	341
165°	800	865	800	865	800	226
175°	832	838	832	838	832	79
180°	832	832	832	832	832	



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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°	5.6	10.0	14.5	15.7	24.6	36.5	42.4	37.7	28.3	21.2	21.2
92.5°	22.4	60.3	98.3	107.8	151.6	209.9	239.0	209.5	150.4	106.1	101.9
95°	53.6	123.1	192.7	210.0	373.0	590.2	698.8	623.6	473.1	360.3	347.5
97.5°	92.8	154.1	215.4	230.7	502.4	864.6	1045.7	998.2	903.1	831.7	807.4
100°	122.9	178.5	234.1	248.0	549.5	951.4	1152.4	1155.8	1162.8	1168.0	1139.0
102.5°	148.6	200.5	252.4	265.4	571.1	978.8	1182.5	1243.1	1364.3	1455.2	1430.4
105°	192.1	236.1	280.1	291.1	587.1	981.9	1179.2	1315.0	1586.6	1790.3	1776.9
107.5°	236.8	277.8	318.8	329.0	590.1	938.1	1112.2	1301.6	1680.4	1964.6	1967.8
110°	267.0	304.0	341.0	350.2	585.6	899.4	1056.3	1268.0	1691.6	2009.3	2023.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	296.6	331.9	367.2	375.9	585.8	865.6	1005.4	1222.2	1655.7	1980.8	2002.1
115°	341.3	373.8	406.3	414.4	591.2	826.7	944.6	1153.3	1571.0	1884.2	1913.8
117.5°	385.4	415.0	444.5	451.9	602.1	802.5	902.7	1091.1	1468.0	1750.6	1783.5
120°	411.1	439.0	466.7	473.7	611.1	794.3	885.9	1058.1	1402.4	1660.7	1692.6
122.5°	436.3	464.3	492.4	499.4	623.9	790.0	873.1	1028.2	1338.2	1570.7	1602.3
125°	474.8	500.4	526.0	532.4	641.3	786.5	859.1	990.8	1254.2	1451.8	1480.8
127.5°	506.1	531.9	557.8	564.2	658.6	784.5	847.4	960.5	1186.6	1356.3	1380.8
130°	522.9	550.7	578.5	585.4	671.3	785.7	842.9	943.6	1144.9	1296.0	1318.5
132.5°	540.1	568.0	595.7	602.7	681.5	786.5	839.0	929.2	1109.4	1244.6	1264.8
135°	565.8	591.2	616.5	622.9	692.7	785.7	832.3	907.8	1058.7	1172.0	1189.4
137.5°	592.1	617.1	642.3	648.6	709.4	790.7	831.2	895.0	1022.6	1118.3	1132.6
140°	613.9	637.0	660.1	665.8	719.7	791.4	827.3	882.4	992.6	1075.3	1088.6
142.5°	630.7	652.1	673.4	678.7	728.2	794.2	827.3	875.7	972.5	1045.1	1056.6
145°	656.4	675.0	693.6	698.3	739.4	794.3	821.7	861.3	940.5	999.9	1008.6
147.5°	682.0	700.1	718.2	722.8	755.7	799.7	821.7	852.9	915.2	961.9	969.1
150°	698.8	715.2	731.6	735.7	764.3	802.6	821.7	848.0	900.6	940.1	945.9
152.5°	716.2	728.6	741.0	744.1	770.0	804.4	821.7	844.2	889.1	922.8	927.2
155°	741.9	751.0	760.1	762.4	782.2	808.6	821.7	839.6	875.3	902.1	905.1
157.5°	760.8	769.8	778.7	780.9	794.5	812.7	821.7	835.6	863.4	884.3	886.4
160°	773.6	780.6	787.6	789.3	800.1	814.6	821.7	833.6	857.4	875.3	876.5
162.5°	786.5	791.7	796.9	798.3	806.0	816.5	821.7	831.7	851.9	866.9	868.0
165°	800.5	805.2	809.9	811.1	814.6	819.4	821.7	828.9	843.3	854.1	855.3
167.5°	813.3	815.5	817.8	818.3	821.3	825.3	827.3	832.0	841.4	848.5	849.0
170°	821.7	824.0	826.2	826.7	826.9	827.2	827.3	832.0	841.4	848.5	848.5
172.5°	826.2	826.6	827.2	827.3	827.3	827.3	827.3	831.0	838.5	844.0	843.6
175°	832.3	832.3	832.3	832.3	830.6	828.3	827.3	829.6	834.3	837.9	837.9
177.5°	832.3	832.3	832.3	832.3	831.0	829.3	828.4	830.3	834.0	836.8	836.2
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



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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°	21.2	21.2	21.2	21.2	21.2	28.3	37.7	42.4	36.5	24.6	15.7
92.5°	85.0	68.1	85.0	101.9	106.1	150.4	209.5	239.0	209.9	151.6	107.8
95°	296.3	245.2	296.3	347.5	360.3	473.1	623.6	698.8	590.2	373.0	210.0
97.5°	710.1	612.8	710.1	807.4	831.7	903.1	998.2	1045.7	864.6	502.4	230.7
100°	1023.1	907.1	1023.1	1139.0	1168.0	1162.8	1155.8	1152.4	951.4	549.5	248.0
102.5°	1331.0	1231.7	1331.0	1430.4	1455.2	1364.3	1243.1	1182.5	978.8	571.1	265.4
105°	1723.6	1670.2	1723.6	1776.9	1790.3	1586.6	1315.0	1179.2	981.9	587.1	291.1
107.5°	1980.8	1993.7	1980.8	1967.8	1964.6	1680.4	1301.6	1112.2	938.1	590.1	329.0
110°	2078.8	2134.4	2078.8	2023.1	2009.3	1691.6	1268.0	1056.3	899.4	585.6	350.2



TEST NUMBER: P935162

CATALOG NUMBER: SQ4-FA-100U-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°	2087.5	2172.9	2087.5	2002.1	1980.8	1655.7	1222.2	1005.4	865.6	585.8	375.9
115°	2032.2	2150.6	2032.2	1913.8	1884.2	1571.0	1153.3	944.6	826.7	591.2	414.4
117.5°	1914.8	2046.1	1914.8	1783.5	1750.6	1468.0	1091.1	902.7	802.5	602.1	451.9
120°	1820.3	1947.8	1820.3	1692.6	1660.7	1402.4	1058.1	885.9	794.3	611.1	473.7
122.5°	1728.1	1854.0	1728.1	1602.3	1570.7	1338.2	1028.2	873.1	790.0	623.9	499.4
125°	1596.7	1712.6	1596.7	1480.8	1451.8	1254.2	990.8	859.1	786.5	641.3	532.4
127.5°	1478.6	1576.4	1478.6	1380.8	1356.3	1186.6	960.5	847.4	784.5	658.6	564.2
130°	1409.0	1499.3	1409.0	1318.5	1296.0	1144.9	943.6	842.9	785.7	671.3	585.4
132.5°	1345.7	1426.7	1345.7	1264.8	1244.6	1109.4	929.2	839.0	786.5	681.5	602.7
135°	1259.2	1328.9	1259.2	1189.4	1172.0	1058.7	907.8	832.3	785.7	692.7	622.9
137.5°	1189.7	1246.8	1189.7	1132.6	1118.3	1022.6	895.0	831.2	790.7	709.4	648.6
140°	1142.1	1195.4	1142.1	1088.6	1075.3	992.6	882.4	827.3	791.4	719.7	665.8
142.5°	1102.6	1148.5	1102.6	1056.6	1045.1	972.5	875.7	827.3	794.2	728.2	678.7
145°	1043.4	1078.1	1043.4	1008.6	999.9	940.5	861.3	821.7	794.3	739.4	698.3
147.5°	997.9	1026.7	997.9	969.1	961.9	915.2	852.9	821.7	799.7	755.7	722.8
150°	969.3	992.6	969.3	945.9	940.1	900.6	848.0	821.7	802.6	764.3	735.7
152.5°	944.8	962.5	944.8	927.2	922.8	889.1	844.2	821.7	804.4	770.0	744.1
155°	916.7	928.3	916.7	905.1	902.1	875.3	839.6	821.7	808.6	782.2	762.4
157.5°	894.5	902.7	894.5	886.4	884.3	863.4	835.6	821.7	812.7	794.5	780.9
160°	881.3	885.9	881.3	876.5	875.3	857.4	833.6	821.7	814.6	800.1	789.3
162.5°	872.5	877.0	872.5	868.0	866.9	851.9	831.7	821.7	816.5	806.0	798.3
165°	860.0	864.7	860.0	855.3	854.1	843.3	828.9	821.7	819.4	814.6	811.1
167.5°	851.0	853.0	851.0	849.0	848.5	841.4	832.0	827.3	825.3	821.3	818.3
170°	848.5	848.5	848.5	848.5	848.5	841.4	832.0	827.3	827.2	826.9	826.7
172.5°	841.9	840.2	841.9	843.6	844.0	838.5	831.0	827.3	827.3	827.3	827.3
175°	837.9	837.9	837.9	837.9	837.9	834.3	829.6	827.3	828.3	830.6	832.3
177.5°	834.3	832.3	834.3	836.2	836.8	834.0	830.3	828.4	829.3	831.0	832.3
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



TEST NUMBER: P935162

CATALOG NUMBER: SQ4-FA-100U-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°	14.5	10.0	5.6	10.0	14.5	15.7	24.6	36.5	42.4	37.7	28.3
92.5°	98.3	60.3	22.4	60.3	98.3	107.8	151.6	209.9	239.0	209.5	150.4
95°	192.7	123.1	53.6	123.1	192.7	210.0	373.0	590.2	698.8	623.6	473.1
97.5°	215.4	154.1	92.8	154.1	215.4	230.7	502.4	864.6	1045.7	998.2	903.1
100°	234.1	178.5	122.9	178.5	234.1	248.0	549.5	951.4	1152.4	1155.8	1162.8
102.5°	252.4	200.5	148.6	200.5	252.4	265.4	571.1	978.8	1182.5	1243.1	1364.3
105°	280.1	236.1	192.1	236.1	280.1	291.1	587.1	981.9	1179.2	1315.0	1586.6
107.5°	318.8	277.8	236.8	277.8	318.8	329.0	590.1	938.1	1112.2	1301.6	1680.4
110°	341.0	304.0	267.0	304.0	341.0	350.2	585.6	899.4	1056.3	1268.0	1691.6



TEST NUMBER: P935162

CATALOG NUMBER: SQ4-FA-100U-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°	367.2	331.9	296.6	331.9	367.2	375.9	585.8	865.6	1005.4	1222.2	1655.7
115°	406.3	373.8	341.3	373.8	406.3	414.4	591.2	826.7	944.6	1153.3	1571.0
117.5°	444.5	415.0	385.4	415.0	444.5	451.9	602.1	802.5	902.7	1091.1	1468.0
120°	466.7	439.0	411.1	439.0	466.7	473.7	611.1	794.3	885.9	1058.1	1402.4
122.5°	492.4	464.3	436.3	464.3	492.4	499.4	623.9	790.0	873.1	1028.2	1338.2
125°	526.0	500.4	474.8	500.4	526.0	532.4	641.3	786.5	859.1	990.8	1254.2
127.5°	557.8	531.9	506.1	531.9	557.8	564.2	658.6	784.5	847.4	960.5	1186.6
130°	578.5	550.7	522.9	550.7	578.5	585.4	671.3	785.7	842.9	943.6	1144.9
132.5°	595.7	568.0	540.1	568.0	595.7	602.7	681.5	786.5	839.0	929.2	1109.4
135°	616.5	591.2	565.8	591.2	616.5	622.9	692.7	785.7	832.3	907.8	1058.7
137.5°	642.3	617.1	592.1	617.1	642.3	648.6	709.4	790.7	831.2	895.0	1022.6
140°	660.1	637.0	613.9	637.0	660.1	665.8	719.7	791.4	827.3	882.4	992.6
142.5°	673.4	652.1	630.7	652.1	673.4	678.7	728.2	794.2	827.3	875.7	972.5
145°	693.6	675.0	656.4	675.0	693.6	698.3	739.4	794.3	821.7	861.3	940.5
147.5°	718.2	700.1	682.0	700.1	718.2	722.8	755.7	799.7	821.7	852.9	915.2
150°	731.6	715.2	698.8	715.2	731.6	735.7	764.3	802.6	821.7	848.0	900.6
152.5°	741.0	728.6	716.2	728.6	741.0	744.1	770.0	804.4	821.7	844.2	889.1
155°	760.1	751.0	741.9	751.0	760.1	762.4	782.2	808.6	821.7	839.6	875.3
157.5°	778.7	769.8	760.8	769.8	778.7	780.9	794.5	812.7	821.7	835.6	863.4
160°	787.6	780.6	773.6	780.6	787.6	789.3	800.1	814.6	821.7	833.6	857.4
162.5°	796.9	791.7	786.5	791.7	796.9	798.3	806.0	816.5	821.7	831.7	851.9
165°	809.9	805.2	800.5	805.2	809.9	811.1	814.6	819.4	821.7	828.9	843.3
167.5°	817.8	815.5	813.3	815.5	817.8	818.3	821.3	825.3	827.3	832.0	841.4
170°	826.2	824.0	821.7	824.0	826.2	826.7	826.9	827.2	827.3	832.0	841.4
172.5°	827.2	826.6	826.2	826.6	827.2	827.3	827.3	827.3	827.3	831.0	838.5
175°	832.3	832.3	832.3	832.3	832.3	832.3	830.6	828.3	827.3	829.6	834.3
177.5°	832.3	832.3	832.3	832.3	832.3	832.3	831.0	829.3	828.4	830.3	834.0
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



TEST NUMBER: P935162

CATALOG NUMBER: SQ4-FA-100U-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°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	28.3	37.7	42.4	36.5
92.5°	106.1	101.9	85.0	68.1	85.0	101.9	106.1	150.4	209.5	239.0	209.9
95°	360.3	347.5	296.3	245.2	296.3	347.5	360.3	473.1	623.6	698.8	590.2
97.5°	831.7	807.4	710.1	612.8	710.1	807.4	831.7	903.1	998.2	1045.7	864.6
100°	1168.0	1139.0	1023.1	907.1	1023.1	1139.0	1168.0	1162.8	1155.8	1152.4	951.4
102.5°	1455.2	1430.4	1331.0	1231.7	1331.0	1430.4	1455.2	1364.3	1243.1	1182.5	978.8
105°	1790.3	1776.9	1723.6	1670.2	1723.6	1776.9	1790.3	1586.6	1315.0	1179.2	981.9
107.5°	1964.6	1967.8	1980.8	1993.7	1980.8	1967.8	1964.6	1680.4	1301.6	1112.2	938.1
110°	2009.3	2023.1	2078.8	2134.4	2078.8	2023.1	2009.3	1691.6	1268.0	1056.3	899.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1980.8	2002.1	2087.5	2172.9	2087.5	2002.1	1980.8	1655.7	1222.2	1005.4	865.6
115°	1884.2	1913.8	2032.2	2150.6	2032.2	1913.8	1884.2	1571.0	1153.3	944.6	826.7
117.5°	1750.6	1783.5	1914.8	2046.1	1914.8	1783.5	1750.6	1468.0	1091.1	902.7	802.5
120°	1660.7	1692.6	1820.3	1947.8	1820.3	1692.6	1660.7	1402.4	1058.1	885.9	794.3
122.5°	1570.7	1602.3	1728.1	1854.0	1728.1	1602.3	1570.7	1338.2	1028.2	873.1	790.0
125°	1451.8	1480.8	1596.7	1712.6	1596.7	1480.8	1451.8	1254.2	990.8	859.1	786.5
127.5°	1356.3	1380.8	1478.6	1576.4	1478.6	1380.8	1356.3	1186.6	960.5	847.4	784.5
130°	1296.0	1318.5	1409.0	1499.3	1409.0	1318.5	1296.0	1144.9	943.6	842.9	785.7
132.5°	1244.6	1264.8	1345.7	1426.7	1345.7	1264.8	1244.6	1109.4	929.2	839.0	786.5
135°	1172.0	1189.4	1259.2	1328.9	1259.2	1189.4	1172.0	1058.7	907.8	832.3	785.7
137.5°	1118.3	1132.6	1189.7	1246.8	1189.7	1132.6	1118.3	1022.6	895.0	831.2	790.7
140°	1075.3	1088.6	1142.1	1195.4	1142.1	1088.6	1075.3	992.6	882.4	827.3	791.4
142.5°	1045.1	1056.6	1102.6	1148.5	1102.6	1056.6	1045.1	972.5	875.7	827.3	794.2
145°	999.9	1008.6	1043.4	1078.1	1043.4	1008.6	999.9	940.5	861.3	821.7	794.3
147.5°	961.9	969.1	997.9	1026.7	997.9	969.1	961.9	915.2	852.9	821.7	799.7
150°	940.1	945.9	969.3	992.6	969.3	945.9	940.1	900.6	848.0	821.7	802.6
152.5°	922.8	927.2	944.8	962.5	944.8	927.2	922.8	889.1	844.2	821.7	804.4
155°	902.1	905.1	916.7	928.3	916.7	905.1	902.1	875.3	839.6	821.7	808.6
157.5°	884.3	886.4	894.5	902.7	894.5	886.4	884.3	863.4	835.6	821.7	812.7
160°	875.3	876.5	881.3	885.9	881.3	876.5	875.3	857.4	833.6	821.7	814.6
162.5°	866.9	868.0	872.5	877.0	872.5	868.0	866.9	851.9	831.7	821.7	816.5
165°	854.1	855.3	860.0	864.7	860.0	855.3	854.1	843.3	828.9	821.7	819.4
167.5°	848.5	849.0	851.0	853.0	851.0	849.0	848.5	841.4	832.0	827.3	825.3
170°	848.5	848.5	848.5	848.5	848.5	848.5	848.5	841.4	832.0	827.3	827.2
172.5°	844.0	843.6	841.9	840.2	841.9	843.6	844.0	838.5	831.0	827.3	827.3
175°	837.9	837.9	837.9	837.9	837.9	837.9	837.9	834.3	829.6	827.3	828.3
177.5°	836.8	836.2	834.3	832.3	834.3	836.2	836.8	834.0	830.3	828.4	829.3
180°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3



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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°	24.6	15.7	14.5	10.0	5.6
92.5°	151.6	107.8	98.3	60.3	22.4
95°	373.0	210.0	192.7	123.1	53.6
97.5°	502.4	230.7	215.4	154.1	92.8
100°	549.5	248.0	234.1	178.5	122.9
102.5°	571.1	265.4	252.4	200.5	148.6
105°	587.1	291.1	280.1	236.1	192.1
107.5°	590.1	329.0	318.8	277.8	236.8
110°	585.6	350.2	341.0	304.0	267.0



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CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	585.8	375.9	367.2	331.9	296.6
115°	591.2	414.4	406.3	373.8	341.3
117.5°	602.1	451.9	444.5	415.0	385.4
120°	611.1	473.7	466.7	439.0	411.1
122.5°	623.9	499.4	492.4	464.3	436.3
125°	641.3	532.4	526.0	500.4	474.8
127.5°	658.6	564.2	557.8	531.9	506.1
130°	671.3	585.4	578.5	550.7	522.9
132.5°	681.5	602.7	595.7	568.0	540.1
135°	692.7	622.9	616.5	591.2	565.8
137.5°	709.4	648.6	642.3	617.1	592.1
140°	719.7	665.8	660.1	637.0	613.9
142.5°	728.2	678.7	673.4	652.1	630.7
145°	739.4	698.3	693.6	675.0	656.4
147.5°	755.7	722.8	718.2	700.1	682.0
150°	764.3	735.7	731.6	715.2	698.8
152.5°	770.0	744.1	741.0	728.6	716.2
155°	782.2	762.4	760.1	751.0	741.9
157.5°	794.5	780.9	778.7	769.8	760.8
160°	800.1	789.3	787.6	780.6	773.6
162.5°	806.0	798.3	796.9	791.7	786.5
165°	814.6	811.1	809.9	805.2	800.5
167.5°	821.3	818.3	817.8	815.5	813.3
170°	826.9	826.7	826.2	824.0	821.7
172.5°	827.3	827.3	827.2	826.6	826.2
175°	830.6	832.3	832.3	832.3	832.3
177.5°	831.0	832.3	832.3	832.3	832.3
180°	832.3	832.3	832.3	832.3	832.3



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.41	12.19	12.45	13.24	14.64	14.24	15.02	15.27	16.06	17.46
	3H	11.88	12.58	12.93	13.63	15.05	15.57	16.27	16.62	17.32	18.74
	4H	12.07	12.73	13.13	13.79	15.21	16.01	16.68	17.07	17.73	19.16
	6H	12.19	12.80	13.25	13.85	15.29	16.29	16.90	17.36	17.96	19.40
	8H	12.18	12.77	13.25	13.84	15.27	16.36	16.95	17.43	18.02	19.45
	12H	12.15	12.71	13.23	13.77	15.23	16.40	16.95	17.47	18.02	19.47
4H	2H	12.43	13.10	13.50	14.15	15.58	14.64	15.30	15.70	16.35	17.78
	3H	13.45	14.01	14.52	15.09	16.53	16.13	16.69	17.20	17.77	19.20
	4H	13.73	14.23	14.80	15.30	16.76	16.66	17.16	17.73	18.23	19.69
	6H	13.85	14.28	14.93	15.38	16.83	17.02	17.45	18.10	18.54	20.00
	8H	13.85	14.26	14.94	15.34	16.81	17.12	17.53	18.20	18.61	20.08
	12H	13.81	14.18	14.92	15.28	16.76	17.17	17.54	18.27	18.64	20.11
8H	4H	14.17	14.58	15.26	15.66	17.14	16.77	17.18	17.86	18.27	19.74
	6H	14.43	14.77	15.54	15.89	17.36	17.21	17.54	18.31	18.67	20.14
	8H	14.47	14.77	15.59	15.88	17.36	17.36	17.65	18.47	18.76	20.25
	12H	14.45	14.71	15.57	15.82	17.34	17.45	17.71	18.57	18.81	20.34
12H	4H	14.17	14.54	15.28	15.64	17.12	16.73	17.10	17.84	18.20	19.68
	6H	14.49	14.79	15.60	15.89	17.38	17.20	17.50	18.32	18.61	20.09
	8H	14.55	14.81	15.67	15.92	17.44	17.36	17.62	18.48	18.72	20.25