

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: P934884

Luminaire Tested: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934884
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

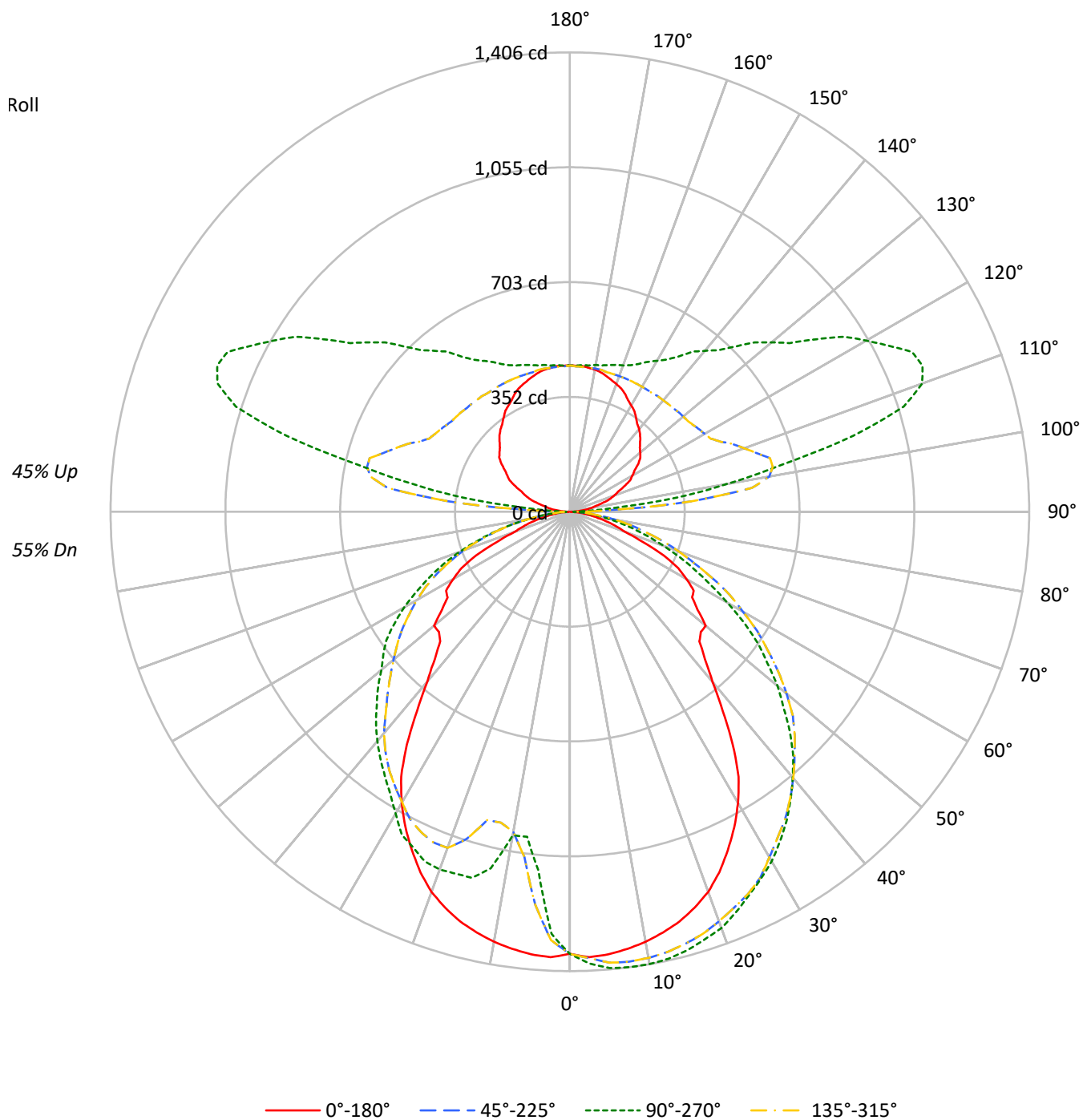
Lumens per Lamp: N/A
Luminaire Lumens: 6411.9 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P934884

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12557	12557	12557	12557
5°	12638	12676	12638	9967
10°	12539	12486	12539	8927
15°	12388	12216	12388	10200
20°	12115	11895	12115	10221
25°	11571	11428	11571	10005
30°	10873	11040	10873	9530
35°	9678	10549	9678	9007
40°	8051	9971	8051	8612
45°	7180	9294	7180	8159
50°	7609	8489	7609	7702
55°	7140	7619	7140	7438
60°	7332	6471	7332	6812
65°	6616	5348	6616	5979
70°	4552	4263	4552	5013
75°	3945	3151	3945	3773
80°	3117	2083	3117	2269
85°	1689	1103	1689	937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 11024 cd/sqm

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CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.9
10°-20°	346.8	5.4
20°-30°	536.1	8.4
30°-40°	640.0	10.0
40°-50°	643.8	10.0
50°-60°	560.2	8.7
60°-70°	397.2	6.2
70°-80°	210.1	3.3
80°-90°	54.0	0.8
90°-100°	218.2	3.4
100°-110°	573.6	8.9
110°-120°	594.7	9.3
120°-130°	477.1	7.4
130°-140°	374.3	5.8
140°-150°	287.3	4.5
150°-160°	206.9	3.2
160°-170°	126.6	2.0
170°-180°	42.8	0.7
0°-30°	1005.1	15.7
0°-40°	1645.2	25.7
0°-60°	2849.1	44.4
0°-90°	3510.4	54.7
90°-120°	1386.5	21.6
90°-150°	2525.2	39.4
90°-180°	2901.0	45.2
0°-180°	6411.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1353	1353	1353	1353	1353	
5°	1360	1402	1360	1102	1360	129
15°	1298	1389	1298	1160	1298	365
25°	1143	1296	1143	1134	1143	525
35°	869	1156	869	987	869	538
45°	561	952	561	836	561	449
55°	457	703	457	686	457	420
65°	318	424	318	474	318	303
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	3	11	3	11	3	3
95°	29	132	29	132	29	32
105°	103	898	103	898	103	110
115°	184	1156	184	1156	184	181
125°	255	921	255	921	255	227
135°	304	715	304	715	304	235
145°	353	580	353	580	353	221
155°	399	499	399	499	399	183
165°	430	465	430	465	430	121
175°	448	451	448	451	448	42
180°	448	448	448	448	448	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1364.7	1364.7	1372.5	1375.0	1375.0	1371.1	1367.4	1371.1	1382.7	1386.5	1385.3
5°	1359.7	1369.9	1384.0	1386.5	1389.1	1387.8	1385.3	1387.8	1400.6	1403.2	1404.5
7.5°	1349.4	1368.6	1386.5	1390.4	1394.2	1390.4	1389.1	1391.7	1404.5	1407.0	1407.0
10°	1336.6	1363.5	1384.0	1386.5	1390.4	1386.5	1386.5	1391.7	1404.5	1407.0	1408.3
12.5°	1318.7	1355.8	1375.0	1377.6	1382.7	1381.4	1380.1	1385.3	1398.1	1400.6	1400.6
15°	1298.2	1341.8	1359.7	1362.2	1371.1	1368.6	1368.6	1373.8	1387.8	1391.7	1390.4
17.5°	1270.1	1323.8	1344.3	1348.2	1354.6	1353.2	1354.6	1359.7	1372.5	1375.0	1376.3
20°	1238.0	1299.5	1323.8	1327.6	1334.0	1334.0	1334.0	1340.4	1353.2	1358.3	1358.3
22.5°	1194.5	1273.8	1299.5	1302.0	1309.7	1309.7	1312.3	1321.2	1332.8	1334.0	1334.0
25°	1143.3	1245.7	1267.5	1275.2	1282.9	1286.6	1290.5	1295.6	1299.5	1298.2	1299.5
27.5°	1089.5	1209.9	1238.0	1243.1	1253.4	1257.3	1262.3	1263.7	1264.9	1268.7	1266.2
30°	1029.4	1159.9	1202.1	1207.3	1223.9	1226.5	1221.4	1223.9	1230.3	1233.0	1235.5
32.5°	961.4	1085.7	1165.0	1176.6	1192.0	1184.2	1183.0	1186.8	1197.1	1197.1	1199.6
35°	869.3	1028.1	1130.5	1140.7	1152.2	1143.3	1148.4	1149.7	1156.1	1159.9	1158.6
37.5°	768.1	978.1	1094.7	1102.3	1111.2	1099.7	1107.5	1111.2	1116.4	1113.9	1113.9
40°	678.6	900.0	1052.4	1057.5	1065.2	1056.2	1063.9	1066.5	1069.0	1066.5	1065.2
42.5°	612.0	814.3	1007.6	1014.0	1008.8	1015.2	1017.8	1023.0	1019.1	1014.0	1014.0
45°	560.8	791.2	958.9	966.6	958.9	969.2	973.0	973.0	961.4	958.9	957.7
47.5°	544.1	745.2	910.3	910.3	906.4	919.2	925.7	916.7	905.1	901.4	901.4
50°	542.8	693.9	843.7	838.6	856.5	871.9	865.5	856.5	847.6	833.4	833.4
52.5°	492.9	631.2	758.0	777.1	805.3	814.3	804.0	795.1	779.7	773.3	768.1
55°	457.1	565.9	679.9	718.2	747.7	759.2	740.0	731.0	708.0	704.2	701.6
57.5°	449.4	471.1	608.1	656.8	692.6	691.4	679.9	663.2	644.0	640.1	638.9
60°	412.2	340.5	531.3	589.0	626.1	622.2	612.0	596.6	578.7	576.2	573.6
62.5°	373.8	247.1	444.3	509.6	562.0	560.8	551.8	528.8	516.0	509.6	504.5
65°	317.5	207.4	316.2	423.7	499.3	501.8	482.7	466.0	451.9	444.3	442.9
67.5°	242.0	169.0	213.8	353.4	439.2	436.5	412.2	404.6	386.6	382.8	375.1
70°	179.3	112.7	148.5	286.8	380.2	373.8	354.7	345.6	329.1	320.1	314.9
72.5°	148.5	90.9	108.8	222.8	320.1	312.4	295.7	285.5	271.4	263.8	258.6
75°	120.3	96.0	83.2	165.1	259.9	254.8	239.4	229.2	217.6	207.4	208.7
77.5°	88.4	89.6	66.6	121.6	206.1	198.5	189.4	176.6	171.5	161.3	161.3
80°	66.6	70.4	49.9	83.2	148.5	148.5	140.8	131.9	122.9	117.8	117.8
82.5°	44.8	44.8	37.1	52.5	101.2	97.3	92.2	89.6	84.5	82.0	82.0
85°	20.4	25.6	23.1	32.0	55.0	57.7	57.7	55.0	53.8	51.2	52.5
87.5°	6.4	11.5	14.1	17.9	28.2	29.5	30.7	30.7	30.7	32.0	32.0
90°	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2	11.4	11.4
92.5°	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9	57.1	54.8
95°	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4	193.7	186.8
97.5°	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7	447.3	434.2
100°	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3	628.1	612.5
102.5°	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6	782.5	769.1
105°	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2	962.7	955.5
107.5°	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6	1056.4	1058.1
110°	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6	1080.4	1087.9

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3	1065.1	1076.7
115°	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8	1013.2	1029.1
117.5°	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3	941.4	959.0
120°	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2	893.0	910.2
122.5°	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6	844.7	861.6
125°	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5	780.7	796.3
127.5°	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2	729.4	742.5
130°	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7	696.9	709.0
132.5°	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6	669.3	680.1
135°	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4	630.2	639.6
137.5°	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9	601.4	609.0
140°	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7	578.2	585.4
142.5°	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0	562.0	568.2
145°	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7	537.7	542.3
147.5°	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2	517.3	521.1
150°	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3	505.5	508.6
152.5°	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1	496.2	498.6
155°	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6	485.1	486.6
157.5°	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2	475.5	476.6
160°	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1	470.7	471.3
162.5°	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0	466.2	466.8
165°	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5	459.3	460.0
167.5°	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5	456.3	456.6
170°	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5	456.3	456.3
172.5°	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9	453.9	453.7
175°	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6	450.6	450.6
177.5°	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5	450.0	449.7
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1387.8	1384.0	1387.8	1385.3	1386.5	1382.7	1371.1	1367.4	1371.1	1375.0	1375.0
5°	1404.5	1401.9	1404.5	1404.5	1403.2	1400.6	1387.8	1385.3	1387.8	1389.1	1386.5
7.5°	1409.6	1405.7	1409.6	1407.0	1407.0	1404.5	1391.7	1389.1	1390.4	1394.2	1390.4
10°	1409.6	1405.7	1409.6	1408.3	1407.0	1404.5	1391.7	1386.5	1386.5	1390.4	1386.5
12.5°	1403.2	1400.6	1403.2	1400.6	1400.6	1398.1	1385.3	1380.1	1381.4	1382.7	1377.6
15°	1392.9	1389.1	1392.9	1390.4	1391.7	1387.8	1373.8	1368.6	1368.6	1371.1	1362.2
17.5°	1377.6	1372.5	1377.6	1376.3	1375.0	1372.5	1359.7	1354.6	1353.2	1354.6	1348.2
20°	1359.7	1355.8	1359.7	1358.3	1358.3	1353.2	1340.4	1334.0	1334.0	1334.0	1327.6
22.5°	1331.5	1327.6	1331.5	1334.0	1334.0	1332.8	1321.2	1312.3	1309.7	1309.7	1302.0
25°	1299.5	1295.6	1299.5	1299.5	1298.2	1299.5	1295.6	1290.5	1286.6	1282.9	1275.2
27.5°	1268.7	1266.2	1268.7	1266.2	1268.7	1264.9	1263.7	1262.3	1257.3	1253.4	1243.1
30°	1238.0	1235.5	1238.0	1235.5	1233.0	1230.3	1223.9	1221.4	1226.5	1223.9	1207.3
32.5°	1199.6	1197.1	1199.6	1199.6	1197.1	1197.1	1186.8	1183.0	1184.2	1192.0	1176.6
35°	1159.9	1156.1	1159.9	1158.6	1159.9	1156.1	1149.7	1148.4	1143.3	1152.2	1140.7
37.5°	1113.9	1110.0	1113.9	1113.9	1113.9	1116.4	1111.2	1107.5	1099.7	1111.2	1102.3
40°	1066.5	1061.3	1066.5	1065.2	1066.5	1069.0	1066.5	1063.9	1056.2	1065.2	1057.5
42.5°	1012.7	1011.4	1012.7	1014.0	1014.0	1019.1	1023.0	1017.8	1015.2	1008.8	1014.0
45°	955.0	952.5	955.0	957.7	958.9	961.4	973.0	973.0	969.2	958.9	966.6
47.5°	893.6	887.2	893.6	901.4	901.4	905.1	916.7	925.7	919.2	906.4	910.3
50°	828.3	829.7	828.3	833.4	833.4	847.6	856.5	865.5	871.9	856.5	838.6
52.5°	764.3	763.1	764.3	768.1	773.3	779.7	795.1	804.0	814.3	805.3	777.1
55°	700.3	702.9	700.3	701.6	704.2	708.0	731.0	740.0	759.2	747.7	718.2
57.5°	636.3	632.5	636.3	638.9	640.1	644.0	663.2	679.9	691.4	692.6	656.8
60°	562.0	556.9	562.0	573.6	576.2	578.7	596.6	612.0	622.2	626.1	589.0
62.5°	496.7	487.8	496.7	504.5	509.6	516.0	528.8	551.8	560.8	562.0	509.6
65°	427.6	423.7	427.6	442.9	444.3	451.9	466.0	482.7	501.8	499.3	423.7
67.5°	364.9	364.9	364.9	375.1	382.8	386.6	404.6	412.2	436.5	439.2	353.4
70°	307.3	306.0	307.3	314.9	320.1	329.1	345.6	354.7	373.8	380.2	286.8
72.5°	252.2	251.0	252.2	258.6	263.8	271.4	285.5	295.7	312.4	320.1	222.8
75°	203.6	201.0	203.6	208.7	207.4	217.6	229.2	239.4	254.8	259.9	165.1
77.5°	156.2	156.2	156.2	161.3	161.3	171.5	176.6	189.4	198.5	206.1	121.6
80°	116.5	115.2	116.5	117.8	117.8	122.9	131.9	140.8	148.5	148.5	83.2
82.5°	82.0	79.4	82.0	82.0	82.0	84.5	89.6	92.2	97.3	101.2	52.5
85°	51.2	51.2	51.2	52.5	51.2	53.8	55.0	57.7	57.7	55.0	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.7	30.7	30.7	29.5	28.2	17.9
90°	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7	13.3	8.4
92.5°	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9	81.5	57.9
95°	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3	200.6	113.0
97.5°	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9	270.2	124.0
100°	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6	295.4	133.3
102.5°	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4	307.1	142.6
105°	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0	315.7	156.5
107.5°	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5	317.3	176.9
110°	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6	314.9	188.4

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5	315.0	202.1
115°	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6	317.9	222.9
117.5°	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5	323.8	243.0
120°	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1	328.6	254.8
122.5°	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8	335.5	268.5
125°	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0	344.9	286.2
127.5°	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9	354.2	303.4
130°	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5	361.0	314.8
132.5°	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0	366.5	324.1
135°	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6	372.5	334.9
137.5°	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2	381.5	348.7
140°	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6	387.0	358.0
142.5°	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1	391.6	364.9
145°	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1	397.6	375.5
147.5°	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0	406.4	388.7
150°	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6	411.0	395.6
152.5°	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6	414.1	400.1
155°	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8	420.6	410.0
157.5°	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0	427.2	420.0
160°	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0	430.2	424.4
162.5°	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1	433.4	429.3
165°	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6	438.1	436.1
167.5°	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8	441.7	440.0
170°	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8	444.7	444.6
172.5°	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4	446.7	447.6
177.5°	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9	446.9	447.6
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1372.5	1364.7	1364.7	1351.9	1346.8	1343.0	1336.6	1317.5	1312.3	1307.2	1314.8
5°	1384.0	1369.9	1359.7	1336.6	1317.5	1309.7	1285.4	1239.4	1208.5	1185.6	1172.8
7.5°	1386.5	1368.6	1349.4	1313.6	1267.5	1247.0	1172.8	1088.3	1065.2	1044.7	1031.9
10°	1384.0	1363.5	1336.6	1282.9	1174.0	1138.2	1063.9	1008.8	994.8	990.9	994.8
12.5°	1375.0	1355.8	1318.7	1229.1	1076.8	1052.4	1008.8	976.8	974.3	980.7	1015.2
15°	1359.7	1341.8	1298.2	1157.4	1023.0	1005.0	974.3	962.8	976.8	1021.6	1125.4
17.5°	1344.3	1323.8	1270.1	1086.9	982.0	969.2	947.4	970.5	1049.8	1110.0	1144.6
20°	1323.8	1299.5	1238.0	1035.8	952.5	941.0	930.7	1034.5	1094.7	1116.4	1135.6
22.5°	1299.5	1273.8	1194.5	999.9	921.8	912.8	919.2	1070.4	1094.7	1110.0	1126.7
25°	1267.5	1245.7	1143.3	971.7	897.5	887.2	911.5	1066.5	1080.5	1084.4	1117.6
27.5°	1238.0	1209.9	1089.5	946.1	868.0	864.2	917.9	1049.8	1060.1	1063.9	1099.7
30°	1202.1	1159.9	1029.4	919.2	837.3	836.1	919.2	1029.4	1026.8	1037.0	1072.9
32.5°	1165.0	1085.7	961.4	886.0	807.9	806.6	910.3	998.7	996.0	1010.2	1037.0
35°	1130.5	1028.1	869.3	847.6	770.7	772.0	888.5	962.8	964.1	976.8	993.5
37.5°	1094.7	978.1	768.1	805.3	734.9	734.9	859.0	929.5	926.9	930.7	953.8
40°	1052.4	900.0	678.6	750.2	701.6	697.8	823.3	893.6	884.7	883.4	915.4
42.5°	1007.6	814.3	612.0	677.2	663.2	658.0	779.7	850.1	833.4	837.3	878.3
45°	958.9	791.2	560.8	572.3	623.5	619.7	732.3	800.2	788.7	798.9	841.2
47.5°	910.3	745.2	544.1	475.0	581.2	579.9	679.9	751.6	745.2	755.3	800.2
50°	843.7	693.9	542.8	407.2	533.9	539.0	617.1	704.2	704.2	713.1	760.5
52.5°	758.0	631.2	492.9	368.7	478.8	494.2	562.0	663.2	665.7	674.7	717.0
55°	679.9	565.9	457.1	339.2	413.6	446.8	508.2	620.9	626.1	635.0	673.5
57.5°	608.1	471.1	449.4	304.8	353.4	385.4	460.9	579.9	582.6	590.2	627.3
60°	531.3	340.5	412.2	267.5	300.9	325.2	417.3	531.3	540.3	545.4	577.4
62.5°	444.3	247.1	373.8	242.0	275.3	280.4	381.5	485.2	496.7	500.6	519.8
65°	316.2	207.4	317.5	220.3	248.4	249.6	343.1	437.9	448.1	454.5	468.6
67.5°	213.8	169.0	242.0	199.7	227.9	229.2	306.0	382.8	396.9	402.0	411.0
70°	148.5	112.7	179.3	178.0	204.8	207.4	266.3	332.9	345.6	349.5	354.7
72.5°	108.8	90.9	148.5	160.1	180.5	183.0	225.3	276.6	289.3	293.2	295.7
75°	83.2	96.0	120.3	139.5	153.6	154.9	184.4	225.3	234.3	236.8	238.1
77.5°	66.6	89.6	88.4	112.7	125.5	122.9	144.7	174.1	181.8	181.8	181.8
80°	49.9	70.4	66.6	80.6	92.2	89.6	103.7	124.2	126.7	129.3	128.0
82.5°	37.1	44.8	44.8	51.2	61.4	58.9	69.1	80.6	80.6	80.6	83.2
85°	23.1	25.6	20.4	26.8	34.6	33.3	38.4	43.5	44.8	44.8	42.2
87.5°	14.1	11.5	6.4	10.3	15.4	15.4	17.9	19.2	17.9	17.9	17.9
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2
92.5°	52.8	32.5	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9
95°	103.7	66.3	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4
97.5°	115.8	82.8	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7
100°	125.9	95.9	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3
102.5°	135.7	107.8	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6
105°	150.6	126.9	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2
107.5°	171.4	149.4	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6
110°	183.4	163.5	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	197.4	178.5	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3
115°	218.5	201.0	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8
117.5°	239.1	223.2	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3
120°	251.0	236.0	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2
122.5°	264.7	249.7	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6
125°	282.9	269.1	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5
127.5°	299.9	286.0	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2
130°	311.0	296.1	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7
132.5°	320.4	305.4	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6
135°	331.5	317.8	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4
137.5°	345.4	331.9	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9
140°	354.9	342.5	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7
142.5°	362.0	350.6	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0
145°	373.0	363.0	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7
147.5°	386.2	376.5	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2
150°	393.4	384.6	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3
152.5°	398.5	391.8	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1
155°	408.7	403.9	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6
157.5°	418.8	414.0	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2
160°	423.5	419.8	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1
162.5°	428.6	425.8	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0
165°	435.5	432.9	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5
167.5°	439.7	438.5	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5
170°	444.3	443.0	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5
172.5°	444.8	444.6	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9
175°	447.6	447.6	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6
177.5°	447.6	447.6	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1305.9	1302.0	1307.2	1293.0	1307.2	1302.0	1305.9	1314.8	1307.2	1312.3	1317.5
5°	1145.8	1139.4	1119.0	1102.3	1119.0	1139.4	1145.8	1172.8	1185.6	1208.5	1239.4
7.5°	1024.2	1019.1	1014.0	1003.7	1014.0	1019.1	1024.2	1031.9	1044.7	1065.2	1088.3
10°	997.3	998.7	1006.3	1005.0	1006.3	998.7	997.3	994.8	990.9	994.8	1008.8
12.5°	1066.5	1078.0	1120.3	1117.6	1120.3	1078.0	1066.5	1015.2	980.7	974.3	976.8
15°	1145.8	1149.7	1158.6	1159.9	1158.6	1149.7	1145.8	1125.4	1021.6	976.8	962.8
17.5°	1153.5	1154.9	1161.2	1161.2	1161.2	1154.9	1153.5	1144.6	1110.0	1049.8	970.5
20°	1147.1	1149.7	1162.5	1165.0	1162.5	1149.7	1147.1	1135.6	1116.4	1094.7	1034.5
22.5°	1144.6	1149.7	1159.9	1158.6	1159.9	1149.7	1144.6	1126.7	1110.0	1094.7	1070.4
25°	1131.8	1131.8	1133.1	1134.3	1133.1	1131.8	1131.8	1117.6	1084.4	1080.5	1066.5
27.5°	1104.9	1107.5	1115.1	1113.9	1115.1	1107.5	1104.9	1099.7	1063.9	1060.1	1049.8
30°	1080.5	1078.0	1071.6	1066.5	1071.6	1078.0	1080.5	1072.9	1037.0	1026.8	1029.4
32.5°	1039.5	1033.1	1026.8	1023.0	1026.8	1033.1	1039.5	1037.0	1010.2	996.0	998.7
35°	990.9	992.3	990.9	987.1	990.9	992.3	990.9	993.5	976.8	964.1	962.8
37.5°	956.4	958.9	957.7	952.5	957.7	958.9	956.4	953.8	930.7	926.9	929.5
40°	920.6	921.8	920.6	916.7	920.6	921.8	920.6	915.4	883.4	884.7	893.6
42.5°	886.0	884.7	880.8	878.3	880.8	884.7	886.0	878.3	837.3	833.4	850.1
45°	846.2	847.6	839.8	836.1	839.8	847.6	846.2	841.2	798.9	788.7	800.2
47.5°	806.6	806.6	800.2	796.3	800.2	806.6	806.6	800.2	755.3	745.2	751.6
50°	764.3	763.1	754.1	752.8	754.1	763.1	764.3	760.5	713.1	704.2	704.2
52.5°	715.7	715.7	717.0	719.5	717.0	715.7	715.7	717.0	674.7	665.7	663.2
55°	673.5	674.7	683.6	686.2	683.6	674.7	673.5	673.5	635.0	626.1	620.9
57.5°	629.8	629.8	636.3	636.3	636.3	629.8	629.8	627.3	590.2	582.6	579.9
60°	579.9	582.6	587.6	586.3	587.6	582.6	579.9	577.4	545.4	540.3	531.3
62.5°	527.4	530.0	531.3	528.8	531.3	530.0	527.4	519.8	500.6	496.7	485.2
65°	472.4	475.0	476.3	473.7	476.3	475.0	472.4	468.6	454.5	448.1	437.9
67.5°	416.1	414.8	413.6	418.6	413.6	414.8	416.1	411.0	402.0	396.9	382.8
70°	358.4	358.4	357.2	359.8	357.2	358.4	358.4	354.7	349.5	345.6	332.9
72.5°	297.0	295.7	300.9	297.0	300.9	295.7	297.0	295.7	293.2	289.3	276.6
75°	236.8	239.4	236.8	240.7	236.8	239.4	236.8	238.1	236.8	234.3	225.3
77.5°	180.5	183.0	180.5	180.5	180.5	183.0	180.5	181.8	181.8	181.8	174.1
80°	128.0	126.7	126.7	125.5	126.7	126.7	128.0	128.0	129.3	126.7	124.2
82.5°	82.0	80.6	80.6	83.2	80.6	80.6	82.0	83.2	80.6	80.6	80.6
85°	44.8	46.1	43.5	43.5	43.5	46.1	44.8	42.2	44.8	44.8	43.5
87.5°	16.7	15.4	15.4	15.4	15.4	15.4	16.7	17.9	17.9	17.9	19.2
90°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7
92.5°	57.1	54.8	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9
95°	193.7	186.8	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3
97.5°	447.3	434.2	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9
100°	628.1	612.5	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6
102.5°	782.5	769.1	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4
105°	962.7	955.5	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0
107.5°	1056.4	1058.1	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5
110°	1080.4	1087.9	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1065.1	1076.7	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5
115°	1013.2	1029.1	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6
117.5°	941.4	959.0	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5
120°	893.0	910.2	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1
122.5°	844.7	861.6	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8
125°	780.7	796.3	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0
127.5°	729.4	742.5	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9
130°	696.9	709.0	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5
132.5°	669.3	680.1	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0
135°	630.2	639.6	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6
137.5°	601.4	609.0	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2
140°	578.2	585.4	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6
142.5°	562.0	568.2	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1
145°	537.7	542.3	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1
147.5°	517.3	521.1	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0
150°	505.5	508.6	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6
152.5°	496.2	498.6	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6
155°	485.1	486.6	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8
157.5°	475.5	476.6	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0
160°	470.7	471.3	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0
162.5°	466.2	466.8	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1
165°	459.3	460.0	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6
167.5°	456.3	456.6	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8
170°	456.3	456.3	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8
172.5°	453.9	453.7	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4
177.5°	450.0	449.7	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6

TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1353.2	1353.2	1353.2	1353.2	1353.2
2.5°	1336.6	1343.0	1346.8	1351.9	1364.7
5°	1285.4	1309.7	1317.5	1336.6	1359.7
7.5°	1172.8	1247.0	1267.5	1313.6	1349.4
10°	1063.9	1138.2	1174.0	1282.9	1336.6
12.5°	1008.8	1052.4	1076.8	1229.1	1318.7
15°	974.3	1005.0	1023.0	1157.4	1298.2
17.5°	947.4	969.2	982.0	1086.9	1270.1
20°	930.7	941.0	952.5	1035.8	1238.0
22.5°	919.2	912.8	921.8	999.9	1194.5
25°	911.5	887.2	897.5	971.7	1143.3
27.5°	917.9	864.2	868.0	946.1	1089.5
30°	919.2	836.1	837.3	919.2	1029.4
32.5°	910.3	806.6	807.9	886.0	961.4
35°	888.5	772.0	770.7	847.6	869.3
37.5°	859.0	734.9	734.9	805.3	768.1
40°	823.3	697.8	701.6	750.2	678.6
42.5°	779.7	658.0	663.2	677.2	612.0
45°	732.3	619.7	623.5	572.3	560.8
47.5°	679.9	579.9	581.2	475.0	544.1
50°	617.1	539.0	533.9	407.2	542.8
52.5°	562.0	494.2	478.8	368.7	492.9
55°	508.2	446.8	413.6	339.2	457.1
57.5°	460.9	385.4	353.4	304.8	449.4
60°	417.3	325.2	300.9	267.5	412.2
62.5°	381.5	280.4	275.3	242.0	373.8
65°	343.1	249.6	248.4	220.3	317.5
67.5°	306.0	229.2	227.9	199.7	242.0
70°	266.3	207.4	204.8	178.0	179.3
72.5°	225.3	183.0	180.5	160.1	148.5
75°	184.4	154.9	153.6	139.5	120.3
77.5°	144.7	122.9	125.5	112.7	88.4
80°	103.7	89.6	92.2	80.6	66.6
82.5°	69.1	58.9	61.4	51.2	44.8
85°	38.4	33.3	34.6	26.8	20.4
87.5°	17.9	15.4	15.4	10.3	6.4
90°	13.3	8.4	7.8	5.4	3.0
92.5°	81.5	57.9	52.8	32.5	12.0
95°	200.6	113.0	103.7	66.3	28.9
97.5°	270.2	124.0	115.8	82.8	49.9
100°	295.4	133.3	125.9	95.9	66.1
102.5°	307.1	142.6	135.7	107.8	79.9
105°	315.7	156.5	150.6	126.9	103.3
107.5°	317.3	176.9	171.4	149.4	127.3
110°	314.9	188.4	183.4	163.5	143.6



TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	315.0	202.1	197.4	178.5	159.5
115°	317.9	222.9	218.5	201.0	183.5
117.5°	323.8	243.0	239.1	223.2	207.3
120°	328.6	254.8	251.0	236.0	221.1
122.5°	335.5	268.5	264.7	249.7	234.6
125°	344.9	286.2	282.9	269.1	255.3
127.5°	354.2	303.4	299.9	286.0	272.2
130°	361.0	314.8	311.0	296.1	281.2
132.5°	366.5	324.1	320.4	305.4	290.5
135°	372.5	334.9	331.5	317.8	304.3
137.5°	381.5	348.7	345.4	331.9	318.4
140°	387.0	358.0	354.9	342.5	330.1
142.5°	391.6	364.9	362.0	350.6	339.2
145°	397.6	375.5	373.0	363.0	352.9
147.5°	406.4	388.7	386.2	376.5	366.8
150°	411.0	395.6	393.4	384.6	375.8
152.5°	414.1	400.1	398.5	391.8	385.1
155°	420.6	410.0	408.7	403.9	398.9
157.5°	427.2	420.0	418.8	414.0	409.1
160°	430.2	424.4	423.5	419.8	416.0
162.5°	433.4	429.3	428.6	425.8	423.0
165°	438.1	436.1	435.5	432.9	430.4
167.5°	441.7	440.0	439.7	438.5	437.3
170°	444.7	444.6	444.3	443.0	441.9
172.5°	444.9	444.9	444.8	444.6	444.3
175°	446.7	447.6	447.6	447.6	447.6
177.5°	446.9	447.6	447.6	447.6	447.6
180°	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934884

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-W2A-W-4-3500K

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	14.01	14.92	14.93	15.85	17.05	16.81	17.72	17.73	18.65	19.85
	3H	14.49	15.30	15.42	16.25	17.47	18.15	18.96	19.08	19.90	21.13
	4H	14.69	15.45	15.63	16.40	17.64	18.59	19.36	19.53	20.30	21.54
	6H	14.81	15.52	15.76	16.47	17.72	18.87	19.58	19.82	20.53	21.78
	8H	14.81	15.48	15.77	16.46	17.70	18.94	19.61	19.90	20.58	21.83
	12H	14.78	15.42	15.75	16.39	17.66	18.98	19.62	19.94	20.58	21.85
4H	2H	15.04	15.81	15.99	16.76	17.99	17.23	17.99	18.17	18.94	20.18
	3H	16.07	16.71	17.03	17.69	18.94	18.73	19.37	19.68	20.35	21.59
	4H	16.35	16.94	17.32	17.91	19.18	19.25	19.83	20.22	20.81	22.08
	6H	16.48	16.98	17.46	17.98	19.25	19.61	20.11	20.59	21.11	22.38
	8H	16.49	16.96	17.47	17.95	19.23	19.71	20.18	20.69	21.17	22.46
	12H	16.46	16.88	17.46	17.89	19.18	19.77	20.19	20.77	21.20	22.49
8H	4H	16.80	17.27	17.79	18.26	19.55	19.38	19.85	20.36	20.84	22.13
	6H	17.07	17.46	18.07	18.49	19.77	19.81	20.20	20.82	21.23	22.51
	8H	17.11	17.45	18.13	18.47	19.78	19.96	20.30	20.97	21.32	22.62
	12H	17.10	17.40	18.12	18.41	19.76	20.05	20.35	21.07	21.37	22.71
12H	4H	16.81	17.24	17.81	18.24	19.53	19.35	19.77	20.35	20.78	22.07
	6H	17.13	17.47	18.14	18.49	19.79	19.81	20.15	20.82	21.17	22.47
	8H	17.20	17.50	18.21	18.51	19.86	19.97	20.27	20.98	21.28	22.63