

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: P934886

Luminaire Tested: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934886
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-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

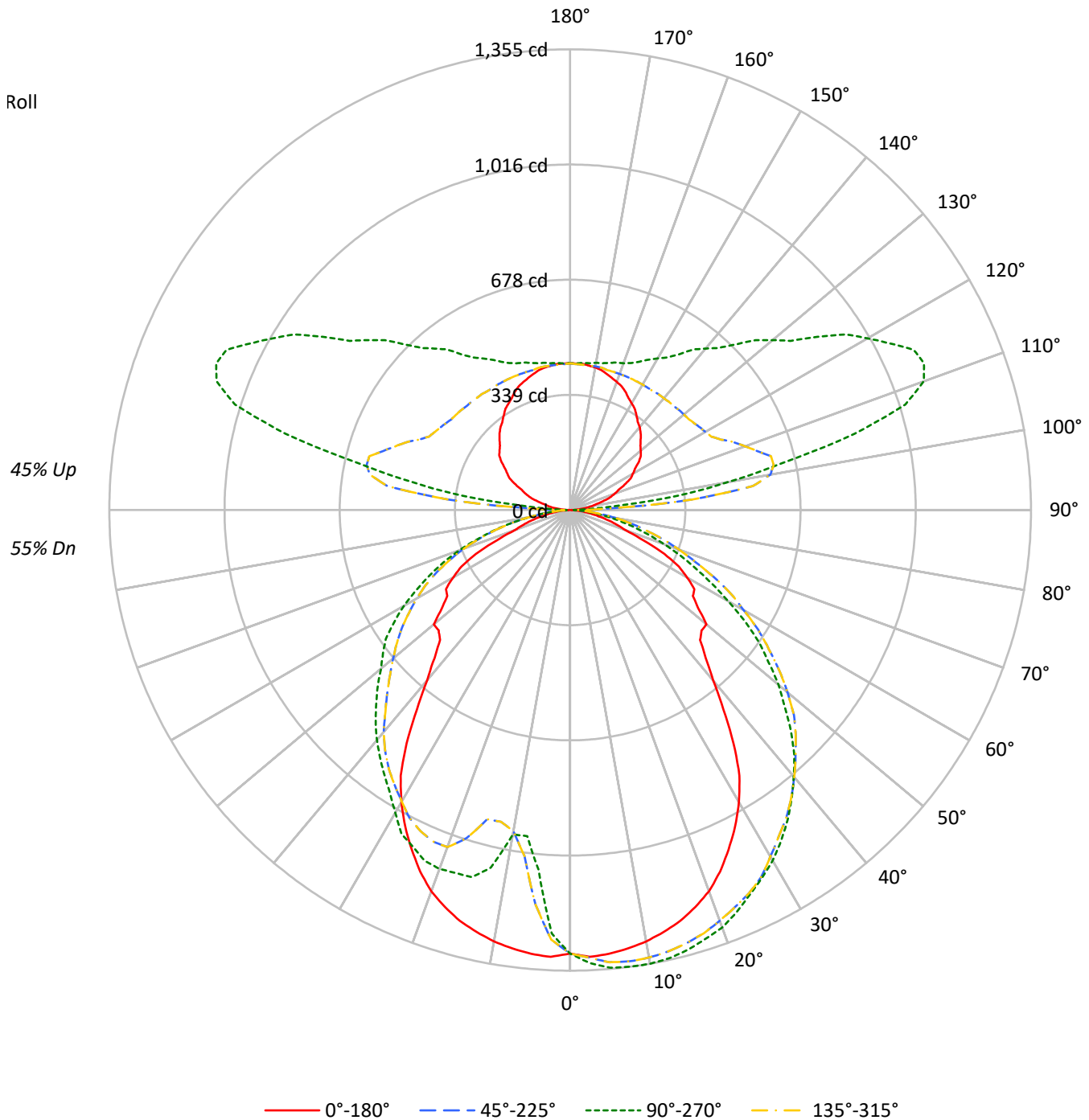
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6180.3 lumens
Efficiency: N/A
Efficacy: 120.7 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 (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934886
CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12103	12103	12103	12103
5°	12181	12218	12181	9607
10°	12087	12036	12087	8604
15°	11941	11774	11941	9832
20°	11677	11466	11677	9852
25°	11153	11016	11153	9643
30°	10480	10642	10480	9186
35°	9328	10169	9328	8682
40°	7760	9611	7760	8301
45°	6920	8959	6920	7864
50°	7334	8182	7334	7424
55°	6882	7344	6882	7170
60°	7067	6237	7067	6567
65°	6379	5155	6379	5763
70°	4387	4110	4387	4832
75°	3804	3037	3804	3637
80°	3005	2009	3005	2188
85°	1631	1062	1631	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10627 cd/sqm



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.9
10°-20°	334.3	5.4
20°-30°	516.8	8.4
30°-40°	616.9	10.0
40°-50°	620.5	10.0
50°-60°	539.9	8.7
60°-70°	382.8	6.2
70°-80°	202.5	3.3
80°-90°	52.1	0.8
90°-100°	210.3	3.4
100°-110°	552.9	8.9
110°-120°	573.3	9.3
120°-130°	459.8	7.4
130°-140°	360.8	5.8
140°-150°	276.9	4.5
150°-160°	199.4	3.2
160°-170°	122.0	2.0
170°-180°	41.2	0.7
0°-30°	968.8	15.7
0°-40°	1585.7	25.7
0°-60°	2746.2	44.4
0°-90°	3383.7	54.7
90°-120°	1336.4	21.6
90°-150°	2433.9	39.4
90°-180°	2797.0	45.3
0°-180°	6180.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1304	1304	1304	1304	1304	
5°	1311	1351	1311	1062	1311	124
15°	1251	1339	1251	1118	1251	352
25°	1102	1249	1102	1093	1102	506
35°	838	1114	838	952	838	518
45°	540	918	540	806	540	433
55°	441	678	441	662	441	405
65°	306	408	306	457	306	292
75°	116	194	116	232	116	122
85°	20	49	20	42	20	27
90°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1115	177	1115	177	175
125°	246	888	246	888	246	219
135°	293	689	293	689	293	227
145°	340	559	340	559	340	213
155°	384	481	384	481	384	177
165°	415	448	415	448	415	117
175°	431	434	431	434	431	41
180°	431	431	431	431	431	



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1315.4	1315.4	1322.9	1325.3	1325.3	1321.6	1318.0	1321.6	1332.7	1336.5	1335.2
5°	1310.6	1320.4	1334.0	1336.5	1338.9	1337.7	1335.2	1337.7	1350.0	1352.5	1353.7
7.5°	1300.7	1319.2	1336.5	1340.2	1343.8	1340.2	1338.9	1341.4	1353.7	1356.2	1356.2
10°	1288.4	1314.2	1334.0	1336.5	1340.2	1336.5	1336.5	1341.4	1353.7	1356.2	1357.5
12.5°	1271.1	1306.9	1325.3	1327.9	1332.7	1331.5	1330.3	1335.2	1347.6	1350.0	1350.0
15°	1251.3	1293.3	1310.6	1313.0	1321.6	1319.2	1319.2	1324.1	1337.7	1341.4	1340.2
17.5°	1224.2	1276.0	1295.7	1299.5	1305.6	1304.3	1305.6	1310.6	1322.9	1325.3	1326.6
20°	1193.3	1252.6	1276.0	1279.7	1285.8	1285.8	1285.8	1292.0	1304.3	1309.3	1309.3
22.5°	1151.3	1227.8	1252.6	1255.0	1262.4	1262.4	1264.9	1273.5	1284.6	1285.8	1285.8
25°	1102.0	1200.8	1221.7	1229.1	1236.5	1240.2	1243.9	1248.9	1252.6	1251.3	1252.6
27.5°	1050.2	1166.2	1193.3	1198.2	1208.1	1211.9	1216.7	1218.0	1219.2	1222.9	1220.5
30°	992.2	1118.0	1158.7	1163.7	1179.7	1182.2	1177.3	1179.7	1185.9	1188.4	1190.9
32.5°	926.7	1046.5	1122.9	1134.1	1148.9	1141.4	1140.2	1144.0	1153.9	1153.9	1156.3
35°	837.9	991.0	1089.7	1099.5	1110.6	1102.0	1106.9	1108.2	1114.4	1118.0	1116.8
37.5°	740.4	942.8	1055.1	1062.5	1071.1	1060.0	1067.5	1071.1	1076.1	1073.6	1073.6
40°	654.1	867.5	1014.4	1019.3	1026.7	1018.1	1025.4	1028.0	1030.4	1028.0	1026.7
42.5°	589.9	784.8	971.2	977.3	972.4	978.6	981.1	986.0	982.3	977.3	977.3
45°	540.5	762.6	924.3	931.7	924.3	934.2	937.8	937.8	926.7	924.3	923.1
47.5°	524.4	718.2	877.4	877.4	873.7	886.0	892.3	883.6	872.4	868.8	868.8
50°	523.2	668.8	813.2	808.3	825.6	840.4	834.2	825.6	817.0	803.3	803.3
52.5°	475.1	608.4	730.6	749.1	776.2	784.8	774.9	766.3	751.5	745.3	740.4
55°	440.6	545.5	655.3	692.3	720.7	731.8	713.3	704.6	682.4	678.7	676.2
57.5°	433.2	454.1	586.2	633.1	667.6	666.4	655.3	639.2	620.7	617.0	615.8
60°	397.3	328.2	512.1	567.7	603.5	599.7	589.9	575.1	557.8	555.4	552.8
62.5°	360.3	238.2	428.2	491.2	541.7	540.5	531.9	509.7	497.4	491.2	486.2
65°	306.1	199.9	304.8	408.4	481.3	483.7	465.2	449.2	435.6	428.2	426.9
67.5°	233.2	162.9	206.0	340.6	423.3	420.8	397.3	389.9	372.7	368.9	361.6
70°	172.8	108.6	143.2	276.5	366.5	360.3	341.8	333.2	317.2	308.5	303.6
72.5°	143.2	87.6	104.9	214.7	308.5	301.1	285.1	275.2	261.6	254.2	249.3
75°	116.0	92.6	80.2	159.2	250.5	245.5	230.8	220.9	209.8	199.9	201.2
77.5°	85.2	86.4	64.2	117.2	198.7	191.3	182.6	170.3	165.3	155.5	155.5
80°	64.2	67.9	48.1	80.2	143.2	143.2	135.7	127.1	118.4	113.6	113.6
82.5°	43.2	43.2	35.8	50.6	97.5	93.8	88.8	86.4	81.4	79.0	79.0
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.8	49.3	50.6
87.5°	6.2	11.1	13.5	17.3	27.2	28.4	29.6	29.6	29.6	30.8	30.8
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0	55.0	52.9
95°	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2	186.7	180.1
97.5°	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1	431.1	418.5
100°	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7	605.4	590.4
102.5°	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1	754.2	741.3
105°	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4	927.9	921.0
107.5°	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0	1018.2	1019.9
110°	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7	1041.4	1048.6



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2	1026.7	1037.8
115°	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3	976.6	991.9
117.5°	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8	907.4	924.4
120°	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9	860.8	877.3
122.5°	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6	814.2	830.5
125°	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2	752.5	767.6
127.5°	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1	703.0	715.7
130°	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5	671.7	683.4
132.5°	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1	645.1	655.6
135°	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8	607.5	616.5
137.5°	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0	579.6	587.0
140°	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4	557.3	564.2
142.5°	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1	541.7	547.7
145°	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5	518.3	522.8
147.5°	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4	498.6	502.3
150°	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8	487.3	490.3
152.5°	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8	478.3	480.5
155°	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6	467.6	469.1
157.5°	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5	458.3	459.3
160°	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5	453.7	454.3
162.5°	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5	449.3	449.9
165°	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1	442.7	443.4
167.5°	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2	439.8	440.1
170°	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2	439.8	439.8
172.5°	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6	437.5	437.3
175°	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4	434.3	434.3
177.5°	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3	433.7	433.5
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1337.7	1334.0	1337.7	1335.2	1336.5	1332.7	1321.6	1318.0	1321.6	1325.3	1325.3
5°	1353.7	1351.3	1353.7	1353.7	1352.5	1350.0	1337.7	1335.2	1337.7	1338.9	1336.5
7.5°	1358.7	1355.0	1358.7	1356.2	1356.2	1353.7	1341.4	1338.9	1340.2	1343.8	1340.2
10°	1358.7	1355.0	1358.7	1357.5	1356.2	1353.7	1341.4	1336.5	1336.5	1340.2	1336.5
12.5°	1352.5	1350.0	1352.5	1350.0	1350.0	1347.6	1335.2	1330.3	1331.5	1332.7	1327.9
15°	1342.6	1338.9	1342.6	1340.2	1341.4	1337.7	1324.1	1319.2	1319.2	1321.6	1313.0
17.5°	1327.9	1322.9	1327.9	1326.6	1325.3	1322.9	1310.6	1305.6	1304.3	1305.6	1299.5
20°	1310.6	1306.9	1310.6	1309.3	1309.3	1304.3	1292.0	1285.8	1285.8	1285.8	1279.7
22.5°	1283.4	1279.7	1283.4	1285.8	1285.8	1284.6	1273.5	1264.9	1262.4	1262.4	1255.0
25°	1252.6	1248.9	1252.6	1252.6	1251.3	1252.6	1248.9	1243.9	1240.2	1236.5	1229.1
27.5°	1222.9	1220.5	1222.9	1220.5	1222.9	1219.2	1218.0	1216.7	1211.9	1208.1	1198.2
30°	1193.3	1190.9	1193.3	1190.9	1188.4	1185.9	1179.7	1177.3	1182.2	1179.7	1163.7
32.5°	1156.3	1153.9	1156.3	1156.3	1153.9	1153.9	1144.0	1140.2	1141.4	1148.9	1134.1
35°	1118.0	1114.4	1118.0	1116.8	1118.0	1114.4	1108.2	1106.9	1102.0	1110.6	1099.5
37.5°	1073.6	1069.9	1073.6	1073.6	1073.6	1076.1	1071.1	1067.5	1060.0	1071.1	1062.5
40°	1028.0	1023.0	1028.0	1026.7	1028.0	1030.4	1028.0	1025.4	1018.1	1026.7	1019.3
42.5°	976.1	974.9	976.1	977.3	977.3	982.3	986.0	981.1	978.6	972.4	977.3
45°	920.6	918.1	920.6	923.1	924.3	926.7	937.8	937.8	934.2	924.3	931.7
47.5°	861.3	855.2	861.3	868.8	868.8	872.4	883.6	892.3	886.0	873.7	877.4
50°	798.4	799.7	798.4	803.3	803.3	817.0	825.6	834.2	840.4	825.6	808.3
52.5°	736.7	735.5	736.7	740.4	745.3	751.5	766.3	774.9	784.8	776.2	749.1
55°	675.0	677.5	675.0	676.2	678.7	682.4	704.6	713.3	731.8	720.7	692.3
57.5°	613.4	609.6	613.4	615.8	617.0	620.7	639.2	655.3	666.4	667.6	633.1
60°	541.7	536.8	541.7	552.8	555.4	557.8	575.1	589.9	599.7	603.5	567.7
62.5°	478.8	470.2	478.8	486.2	491.2	497.4	509.7	531.9	540.5	541.7	491.2
65°	412.2	408.4	412.2	426.9	428.2	435.6	449.2	465.2	483.7	481.3	408.4
67.5°	351.7	351.7	351.7	361.6	368.9	372.7	389.9	397.3	420.8	423.3	340.6
70°	296.2	295.0	296.2	303.6	308.5	317.2	333.2	341.8	360.3	366.5	276.5
72.5°	243.1	241.9	243.1	249.3	254.2	261.6	275.2	285.1	301.1	308.5	214.7
75°	196.2	193.7	196.2	201.2	199.9	209.8	220.9	230.8	245.5	250.5	159.2
77.5°	150.6	150.6	150.6	155.5	155.5	165.3	170.3	182.6	191.3	198.7	117.2
80°	112.3	111.1	112.3	113.6	113.6	118.4	127.1	135.7	143.2	143.2	80.2
82.5°	79.0	76.5	79.0	79.0	79.0	81.4	86.4	88.8	93.8	97.5	50.6
85°	49.3	49.3	49.3	50.6	49.3	51.8	53.1	55.6	55.6	53.1	30.8
87.5°	32.1	30.8	32.1	30.8	30.8	29.6	29.6	29.6	28.4	27.2	17.3
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8	78.5	55.9
95°	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9	193.3	108.9
97.5°	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1	260.4	119.6
100°	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2	284.8	128.5
102.5°	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3	296.0	137.5
105°	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9	304.3	150.8
107.5°	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2	305.9	170.5
110°	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2	303.6	181.6



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7	303.6	194.8
115°	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5	306.4	214.8
117.5°	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9	312.1	234.2
120°	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7	316.7	245.5
122.5°	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5	323.4	258.8
125°	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7	332.4	275.9
127.5°	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7	341.4	292.4
130°	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2	347.9	303.5
132.5°	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7	353.2	312.4
135°	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3	359.0	322.8
137.5°	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8	367.7	336.1
140°	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2	373.0	345.1
142.5°	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7	377.4	351.7
145°	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7	383.2	361.9
147.5°	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5	391.7	374.6
150°	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0	396.2	381.4
152.5°	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9	399.1	385.6
155°	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1	405.4	395.2
157.5°	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2	411.8	404.8
160°	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2	414.7	409.1
162.5°	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2	417.8	413.8
165°	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7	422.3	420.4
167.5°	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8	425.7	424.1
170°	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7	428.6	428.5
172.5°	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4	430.6	431.4
177.5°	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8	430.8	431.4
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1322.9	1315.4	1315.4	1303.1	1298.2	1294.5	1288.4	1269.9	1264.9	1260.0	1267.3
5°	1334.0	1320.4	1310.6	1288.4	1269.9	1262.4	1239.0	1194.6	1164.9	1142.7	1130.4
7.5°	1336.5	1319.2	1300.7	1266.1	1221.7	1202.0	1130.4	1049.0	1026.7	1006.9	994.6
10°	1334.0	1314.2	1288.4	1236.5	1131.6	1097.1	1025.4	972.4	958.8	955.1	958.8
12.5°	1325.3	1306.9	1271.1	1184.7	1037.9	1014.4	972.4	941.6	939.1	945.3	978.6
15°	1310.6	1293.3	1251.3	1115.6	986.0	968.7	939.1	928.0	941.6	984.7	1084.7
17.5°	1295.7	1276.0	1224.2	1047.7	946.5	934.2	913.2	935.4	1011.9	1069.9	1103.2
20°	1276.0	1252.6	1193.3	998.4	918.1	907.0	897.1	997.1	1055.1	1076.1	1094.6
22.5°	1252.6	1227.8	1151.3	963.8	888.5	879.8	886.0	1031.7	1055.1	1069.9	1086.0
25°	1221.7	1200.8	1102.0	936.6	865.1	855.2	878.6	1028.0	1041.5	1045.2	1077.3
27.5°	1193.3	1166.2	1050.2	912.0	836.7	832.9	884.8	1011.9	1021.8	1025.4	1060.0
30°	1158.7	1118.0	992.2	886.0	807.1	805.9	886.0	992.2	989.7	999.6	1034.1
32.5°	1122.9	1046.5	926.7	854.0	778.7	777.5	877.4	962.6	960.1	973.7	999.6
35°	1089.7	991.0	837.9	817.0	742.9	744.1	856.4	928.0	929.2	941.6	957.6
37.5°	1055.1	942.8	740.4	776.2	708.3	708.3	828.0	895.9	893.5	897.1	919.3
40°	1014.4	867.5	654.1	723.1	676.2	672.6	793.5	861.3	852.7	851.5	882.3
42.5°	971.2	784.8	589.9	652.8	639.2	634.3	751.5	819.4	803.3	807.1	846.6
45°	924.3	762.6	540.5	551.6	600.9	597.3	705.8	771.3	760.2	770.1	810.8
47.5°	877.4	718.2	524.4	457.8	560.2	559.0	655.3	724.4	718.2	728.1	771.3
50°	813.2	668.8	523.2	392.5	514.6	519.5	594.8	678.7	678.7	687.3	733.0
52.5°	730.6	608.4	475.1	355.4	461.5	476.3	541.7	639.2	641.7	650.3	691.1
55°	655.3	545.5	440.6	327.0	398.6	430.7	489.9	598.5	603.5	612.1	649.1
57.5°	586.2	454.1	433.2	293.7	340.6	371.5	444.2	559.0	561.5	568.9	604.7
60°	512.1	328.2	397.3	257.9	290.0	313.5	402.3	512.1	520.8	525.7	556.6
62.5°	428.2	238.2	360.3	233.2	265.3	270.3	367.7	467.7	478.8	482.5	501.0
65°	304.8	199.9	306.1	212.3	239.4	240.6	330.7	422.1	431.9	438.0	451.7
67.5°	206.0	162.9	233.2	192.5	219.7	220.9	295.0	368.9	382.6	387.5	396.1
70°	143.2	108.6	172.8	171.6	197.4	199.9	256.7	320.8	333.2	336.9	341.8
72.5°	104.9	87.6	143.2	154.3	174.0	176.4	217.2	266.6	278.9	282.6	285.1
75°	80.2	92.6	116.0	134.5	148.0	149.3	177.7	217.2	225.8	228.3	229.5
77.5°	64.2	86.4	85.2	108.6	121.0	118.4	139.4	167.8	175.2	175.2	175.2
80°	48.1	67.9	64.2	77.7	88.8	86.4	99.9	119.7	122.2	124.6	123.4
82.5°	35.8	43.2	43.2	49.3	59.2	56.8	66.6	77.7	77.7	77.7	80.2
85°	22.2	24.7	19.7	25.9	33.3	32.1	37.0	41.9	43.2	43.2	40.7
87.5°	13.5	11.1	6.2	9.9	14.9	14.9	17.3	18.5	17.3	17.3	17.3
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0
95°	99.9	63.9	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2
97.5°	111.6	79.9	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1
100°	121.3	92.5	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7
102.5°	130.8	104.0	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1
105°	145.1	122.4	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4
107.5°	165.2	144.0	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0
110°	176.8	157.6	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.3	172.0	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2
115°	210.6	193.7	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3
117.5°	230.4	215.1	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8
120°	241.9	227.5	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9
122.5°	255.2	240.7	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6
125°	272.6	259.4	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2
127.5°	289.1	275.7	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1
130°	299.8	285.4	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5
132.5°	308.8	294.4	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1
135°	319.5	306.4	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8
137.5°	332.9	319.9	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0
140°	342.1	330.2	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4
142.5°	348.9	337.9	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1
145°	359.5	349.9	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5
147.5°	372.3	362.9	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4
150°	379.2	370.7	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8
152.5°	384.1	377.6	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8
155°	394.0	389.3	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6
157.5°	403.7	399.0	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5
160°	408.2	404.6	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5
162.5°	413.1	410.4	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5
165°	419.7	417.3	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1
167.5°	423.8	422.6	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2
170°	428.2	427.0	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2
172.5°	428.7	428.5	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6
175°	431.4	431.4	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4
177.5°	431.4	431.4	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1258.8	1255.0	1260.0	1246.3	1260.0	1255.0	1258.8	1267.3	1260.0	1264.9	1269.9
5°	1104.5	1098.3	1078.6	1062.5	1078.6	1098.3	1104.5	1130.4	1142.7	1164.9	1194.6
7.5°	987.2	982.3	977.3	967.4	977.3	982.3	987.2	994.6	1006.9	1026.7	1049.0
10°	961.3	962.6	970.0	968.7	970.0	962.6	961.3	958.8	955.1	958.8	972.4
12.5°	1028.0	1039.1	1079.8	1077.3	1079.8	1039.1	1028.0	978.6	945.3	939.1	941.6
15°	1104.5	1108.2	1116.8	1118.0	1116.8	1108.2	1104.5	1084.7	984.7	941.6	928.0
17.5°	1111.8	1113.1	1119.3	1119.3	1119.3	1113.1	1111.8	1103.2	1069.9	1011.9	935.4
20°	1105.7	1108.2	1120.5	1122.9	1120.5	1108.2	1105.7	1094.6	1076.1	1055.1	997.1
22.5°	1103.2	1108.2	1118.0	1116.8	1118.0	1108.2	1103.2	1086.0	1069.9	1055.1	1031.7
25°	1090.9	1090.9	1092.1	1093.3	1092.1	1090.9	1090.9	1077.3	1045.2	1041.5	1028.0
27.5°	1064.9	1067.5	1074.8	1073.6	1074.8	1067.5	1064.9	1060.0	1025.4	1021.8	1011.9
30°	1041.5	1039.1	1032.9	1028.0	1032.9	1039.1	1041.5	1034.1	999.6	989.7	992.2
32.5°	1002.0	995.8	989.7	986.0	989.7	995.8	1002.0	999.6	973.7	960.1	962.6
35°	955.1	956.4	955.1	951.5	955.1	956.4	955.1	957.6	941.6	929.2	928.0
37.5°	921.9	924.3	923.1	918.1	923.1	924.3	921.9	919.3	897.1	893.5	895.9
40°	887.3	888.5	887.3	883.6	887.3	888.5	887.3	882.3	851.5	852.7	861.3
42.5°	854.0	852.7	849.0	846.6	849.0	852.7	854.0	846.6	807.1	803.3	819.4
45°	815.7	817.0	809.5	805.9	809.5	817.0	815.7	810.8	770.1	760.2	771.3
47.5°	777.5	777.5	771.3	767.6	771.3	777.5	777.5	771.3	728.1	718.2	724.4
50°	736.7	735.5	726.8	725.6	726.8	735.5	736.7	733.0	687.3	678.7	678.7
52.5°	689.9	689.9	691.1	693.5	691.1	689.9	689.9	691.1	650.3	641.7	639.2
55°	649.1	650.3	658.9	661.5	658.9	650.3	649.1	649.1	612.1	603.5	598.5
57.5°	607.1	607.1	613.4	613.4	613.4	607.1	607.1	604.7	568.9	561.5	559.0
60°	559.0	561.5	566.4	565.2	566.4	561.5	559.0	556.6	525.7	520.8	512.1
62.5°	508.4	510.9	512.1	509.7	512.1	510.9	508.4	501.0	482.5	478.8	467.7
65°	455.3	457.8	459.1	456.6	459.1	457.8	455.3	451.7	438.0	431.9	422.1
67.5°	401.1	399.8	398.6	403.5	398.6	399.8	401.1	396.1	387.5	382.6	368.9
70°	345.5	345.5	344.3	346.8	344.3	345.5	345.5	341.8	336.9	333.2	320.8
72.5°	286.3	285.1	290.0	286.3	290.0	285.1	286.3	285.1	282.6	278.9	266.6
75°	228.3	230.8	228.3	232.0	228.3	230.8	228.3	229.5	228.3	225.8	217.2
77.5°	174.0	176.4	174.0	174.0	174.0	176.4	174.0	175.2	175.2	175.2	167.8
80°	123.4	122.2	122.2	121.0	122.2	122.2	123.4	123.4	124.6	122.2	119.7
82.5°	79.0	77.7	77.7	80.2	77.7	77.7	79.0	80.2	77.7	77.7	77.7
85°	43.2	44.5	41.9	41.9	41.9	44.5	43.2	40.7	43.2	43.2	41.9
87.5°	16.1	14.9	14.9	14.9	14.9	14.9	16.1	17.3	17.3	17.3	18.5
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0
92.5°	55.0	52.9	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8
95°	186.7	180.1	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9
97.5°	431.1	418.5	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1
100°	605.4	590.4	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2
102.5°	754.2	741.3	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3
105°	927.9	921.0	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9
107.5°	1018.2	1019.9	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2
110°	1041.4	1048.6	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1026.7	1037.8	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7
115°	976.6	991.9	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5
117.5°	907.4	924.4	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9
120°	860.8	877.3	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7
122.5°	814.2	830.5	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5
125°	752.5	767.6	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7
127.5°	703.0	715.7	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7
130°	671.7	683.4	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2
132.5°	645.1	655.6	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7
135°	607.5	616.5	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3
137.5°	579.6	587.0	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8
140°	557.3	564.2	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2
142.5°	541.7	547.7	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7
145°	518.3	522.8	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7
147.5°	498.6	502.3	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5
150°	487.3	490.3	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0
152.5°	478.3	480.5	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9
155°	467.6	469.1	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1
157.5°	458.3	459.3	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2
160°	453.7	454.3	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2
162.5°	449.3	449.9	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2
165°	442.7	443.4	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7
167.5°	439.8	440.1	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8
170°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7
172.5°	437.5	437.3	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4
177.5°	433.7	433.5	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1288.4	1294.5	1298.2	1303.1	1315.4
5°	1239.0	1262.4	1269.9	1288.4	1310.6
7.5°	1130.4	1202.0	1221.7	1266.1	1300.7
10°	1025.4	1097.1	1131.6	1236.5	1288.4
12.5°	972.4	1014.4	1037.9	1184.7	1271.1
15°	939.1	968.7	986.0	1115.6	1251.3
17.5°	913.2	934.2	946.5	1047.7	1224.2
20°	897.1	907.0	918.1	998.4	1193.3
22.5°	886.0	879.8	888.5	963.8	1151.3
25°	878.6	855.2	865.1	936.6	1102.0
27.5°	884.8	832.9	836.7	912.0	1050.2
30°	886.0	805.9	807.1	886.0	992.2
32.5°	877.4	777.5	778.7	854.0	926.7
35°	856.4	744.1	742.9	817.0	837.9
37.5°	828.0	708.3	708.3	776.2	740.4
40°	793.5	672.6	676.2	723.1	654.1
42.5°	751.5	634.3	639.2	652.8	589.9
45°	705.8	597.3	600.9	551.6	540.5
47.5°	655.3	559.0	560.2	457.8	524.4
50°	594.8	519.5	514.6	392.5	523.2
52.5°	541.7	476.3	461.5	355.4	475.1
55°	489.9	430.7	398.6	327.0	440.6
57.5°	444.2	371.5	340.6	293.7	433.2
60°	402.3	313.5	290.0	257.9	397.3
62.5°	367.7	270.3	265.3	233.2	360.3
65°	330.7	240.6	239.4	212.3	306.1
67.5°	295.0	220.9	219.7	192.5	233.2
70°	256.7	199.9	197.4	171.6	172.8
72.5°	217.2	176.4	174.0	154.3	143.2
75°	177.7	149.3	148.0	134.5	116.0
77.5°	139.4	118.4	121.0	108.6	85.2
80°	99.9	86.4	88.8	77.7	64.2
82.5°	66.6	56.8	59.2	49.3	43.2
85°	37.0	32.1	33.3	25.9	19.7
87.5°	17.3	14.9	14.9	9.9	6.2
90°	12.8	8.1	7.6	5.2	2.9
92.5°	78.5	55.9	50.9	31.3	11.6
95°	193.3	108.9	99.9	63.9	27.8
97.5°	260.4	119.6	111.6	79.9	48.1
100°	284.8	128.5	121.3	92.5	63.7
102.5°	296.0	137.5	130.8	104.0	77.1
105°	304.3	150.8	145.1	122.4	99.6
107.5°	305.9	170.5	165.2	144.0	122.7
110°	303.6	181.6	176.8	157.6	138.4



TEST NUMBER: P934886

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.6	194.8	190.3	172.0	153.7
115°	306.4	214.8	210.6	193.7	176.9
117.5°	312.1	234.2	230.4	215.1	199.8
120°	316.7	245.5	241.9	227.5	213.1
122.5°	323.4	258.8	255.2	240.7	226.1
125°	332.4	275.9	272.6	259.4	246.1
127.5°	341.4	292.4	289.1	275.7	262.4
130°	347.9	303.5	299.8	285.4	271.0
132.5°	353.2	312.4	308.8	294.4	280.0
135°	359.0	322.8	319.5	306.4	293.3
137.5°	367.7	336.1	332.9	319.9	306.9
140°	373.0	345.1	342.1	330.2	318.2
142.5°	377.4	351.7	348.9	337.9	326.9
145°	383.2	361.9	359.5	349.9	340.2
147.5°	391.7	374.6	372.3	362.9	353.5
150°	396.2	381.4	379.2	370.7	362.2
152.5°	399.1	385.6	384.1	377.6	371.2
155°	405.4	395.2	394.0	389.3	384.5
157.5°	411.8	404.8	403.7	399.0	394.3
160°	414.7	409.1	408.2	404.6	401.0
162.5°	417.8	413.8	413.1	410.4	407.7
165°	422.3	420.4	419.7	417.3	414.9
167.5°	425.7	424.1	423.8	422.6	421.5
170°	428.6	428.5	428.2	427.0	425.9
172.5°	428.8	428.8	428.7	428.5	428.2
175°	430.6	431.4	431.4	431.4	431.4
177.5°	430.8	431.4	431.4	431.4	431.4
180°	431.4	431.4	431.4	431.4	431.4



TEST NUMBER: P934886
 CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-5000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.88	14.79	14.80	15.72	16.93	16.68	17.59	17.60	18.52	19.72
	3H	14.37	15.18	15.29	16.12	17.35	18.02	18.83	18.95	19.78	21.00
	4H	14.56	15.33	15.50	16.27	17.51	18.46	19.23	19.40	20.18	21.41
	6H	14.68	15.39	15.63	16.34	17.59	18.74	19.45	19.69	20.40	21.65
	8H	14.68	15.36	15.64	16.33	17.57	18.81	19.49	19.77	20.46	21.70
	12H	14.66	15.30	15.62	16.26	17.53	18.85	19.49	19.81	20.45	21.72
4H	2H	14.92	15.68	15.86	16.63	17.87	17.10	17.87	18.05	18.81	20.05
	3H	15.95	16.59	16.90	17.56	18.81	18.60	19.24	19.56	20.22	21.47
	4H	16.22	16.81	17.19	17.78	19.05	19.12	19.71	20.09	20.68	21.95
	6H	16.35	16.86	17.33	17.85	19.12	19.48	19.99	20.46	20.98	22.25
	8H	16.36	16.83	17.34	17.82	19.11	19.59	20.06	20.57	21.04	22.33
	12H	16.33	16.75	17.33	17.76	19.05	19.64	20.06	20.64	21.07	22.36
8H	4H	16.68	17.15	17.66	18.14	19.42	19.25	19.72	20.23	20.71	22.00
	6H	16.94	17.33	17.95	18.36	19.64	19.68	20.07	20.69	21.10	22.39
	8H	16.98	17.33	18.00	18.34	19.65	19.83	20.17	20.84	21.19	22.49
	12H	16.97	17.27	17.99	18.28	19.63	19.92	20.23	20.94	21.24	22.59
12H	4H	16.68	17.11	17.68	18.11	19.41	19.22	19.64	20.22	20.65	21.94
	6H	17.00	17.34	18.01	18.36	19.66	19.68	20.02	20.69	21.04	22.34
	8H	17.07	17.37	18.09	18.38	19.73	19.84	20.14	20.86	21.15	22.50