

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: P934835

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934835
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-92765-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

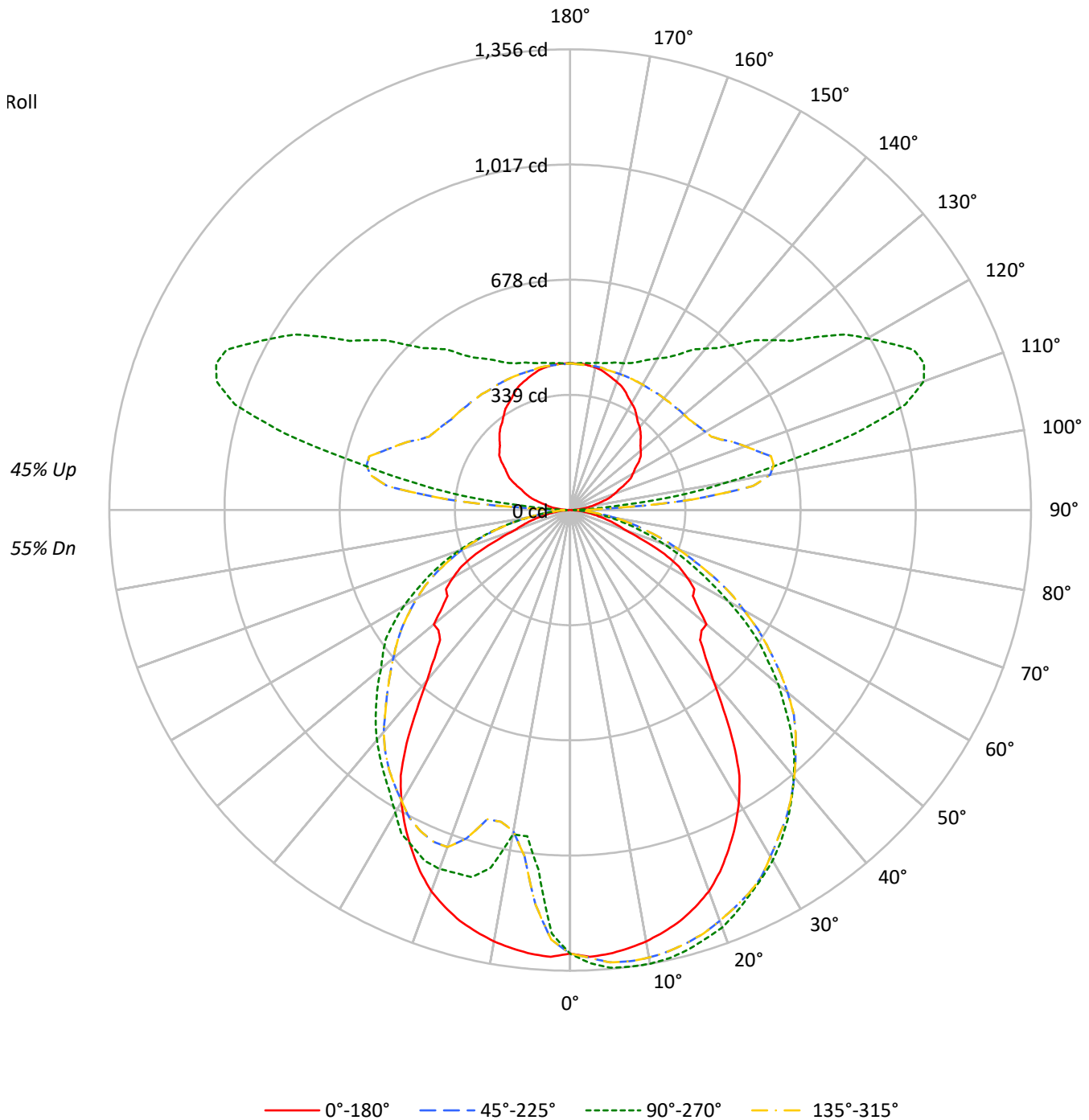
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6185.0 lumens
Efficiency: N/A
Efficacy: 120.8 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: P934835
CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-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°	12112	12112	12112	12112
5°	12190	12227	12190	9614
10°	12095	12044	12095	8611
15°	11949	11783	11949	9839
20°	11686	11474	11686	9860
25°	11162	11024	11162	9651
30°	10487	10650	10487	9192
35°	9335	10176	9335	8689
40°	7766	9618	7766	8307
45°	6925	8966	6925	7870
50°	7340	8188	7340	7430
55°	6887	7349	6887	7176
60°	7073	6242	7073	6572
65°	6383	5159	6383	5768
70°	4389	4113	4389	4836
75°	3807	3040	3807	3640
80°	3005	2009	3005	2188
85°	1631	1064	1631	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10635 cd/sqm



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.9
10°-20°	334.6	5.4
20°-30°	517.2	8.4
30°-40°	617.4	10.0
40°-50°	621.0	10.0
50°-60°	540.3	8.7
60°-70°	383.1	6.2
70°-80°	202.7	3.3
80°-90°	52.1	0.8
90°-100°	210.4	3.4
100°-110°	553.3	8.9
110°-120°	573.7	9.3
120°-130°	460.2	7.4
130°-140°	361.1	5.8
140°-150°	277.1	4.5
150°-160°	199.6	3.2
160°-170°	122.1	2.0
170°-180°	41.3	0.7
0°-30°	969.6	15.7
0°-40°	1586.9	25.7
0°-60°	2748.3	44.4
0°-90°	3386.2	54.7
90°-120°	1337.4	21.6
90°-150°	2435.8	39.4
90°-180°	2799.0	45.3
0°-180°	6185.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1305	1305	1305	1305	1305	
5°	1312	1352	1312	1063	1312	124
15°	1252	1340	1252	1119	1252	352
25°	1103	1250	1103	1094	1103	506
35°	838	1115	838	952	838	519
45°	541	919	541	806	541	433
55°	441	678	441	662	441	405
65°	306	409	306	457	306	293
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	1116	177	1116	177	175
125°	246	888	246	888	246	219
135°	294	689	294	689	294	227
145°	340	559	340	559	340	213
155°	385	482	385	482	385	177
165°	415	449	415	449	415	117
175°	432	435	432	435	432	41
180°	432	432	432	432	432	



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1316.4	1316.4	1323.9	1326.3	1326.3	1322.6	1319.0	1322.6	1333.7	1337.5	1336.3
5°	1311.6	1321.4	1335.0	1337.5	1339.9	1338.7	1336.3	1338.7	1351.0	1353.5	1354.8
7.5°	1301.7	1320.2	1337.5	1341.2	1344.9	1341.2	1339.9	1342.4	1354.8	1357.2	1357.2
10°	1289.3	1315.2	1335.0	1337.5	1341.2	1337.5	1337.5	1342.4	1354.8	1357.2	1358.5
12.5°	1272.0	1307.8	1326.3	1328.9	1333.7	1332.5	1331.3	1336.3	1348.6	1351.0	1351.0
15°	1252.2	1294.3	1311.6	1314.0	1322.6	1320.2	1320.2	1325.1	1338.7	1342.4	1341.2
17.5°	1225.1	1277.0	1296.7	1300.5	1306.6	1305.3	1306.6	1311.6	1323.9	1326.3	1327.6
20°	1194.2	1253.5	1277.0	1280.6	1286.8	1286.8	1286.8	1293.0	1305.3	1310.3	1310.3
22.5°	1152.2	1228.8	1253.5	1256.0	1263.3	1263.3	1265.9	1274.5	1285.6	1286.8	1286.8
25°	1102.9	1201.7	1222.6	1230.1	1237.5	1241.1	1244.8	1249.8	1253.5	1252.2	1253.5
27.5°	1051.0	1167.1	1194.2	1199.1	1209.0	1212.8	1217.6	1219.0	1220.2	1223.8	1221.4
30°	992.9	1118.8	1159.6	1164.6	1180.6	1183.1	1178.2	1180.6	1186.8	1189.3	1191.8
32.5°	927.4	1047.2	1123.8	1134.9	1149.8	1142.3	1141.1	1144.8	1154.7	1154.7	1157.2
35°	838.5	991.7	1090.5	1100.3	1111.5	1102.9	1107.7	1109.0	1115.2	1118.8	1117.6
37.5°	740.9	943.5	1055.9	1063.3	1071.9	1060.8	1068.3	1071.9	1076.9	1074.4	1074.4
40°	654.6	868.2	1015.2	1020.0	1027.5	1018.8	1026.2	1028.7	1031.2	1028.7	1027.5
42.5°	590.4	785.4	971.9	978.1	973.1	979.3	981.8	986.8	983.0	978.1	978.1
45°	540.9	763.2	925.0	932.4	925.0	934.9	938.5	938.5	927.4	925.0	923.8
47.5°	524.8	718.8	878.1	878.1	874.3	886.7	892.9	884.2	873.1	869.5	869.5
50°	523.6	669.3	813.8	808.9	826.2	841.0	834.9	826.2	817.6	803.9	803.9
52.5°	475.5	608.9	731.1	749.6	776.8	785.4	775.5	766.9	752.1	745.9	740.9
55°	440.9	545.9	655.8	692.8	721.2	732.3	713.8	705.1	682.9	679.3	676.7
57.5°	433.5	454.5	586.6	633.5	668.1	666.9	655.8	639.7	621.2	617.5	616.3
60°	397.6	328.5	512.5	568.1	603.9	600.2	590.4	575.5	558.2	555.8	553.3
62.5°	360.6	238.4	428.6	491.6	542.1	540.9	532.3	510.1	497.7	491.6	486.6
65°	306.3	200.0	305.0	408.7	481.7	484.1	465.6	449.5	435.9	428.6	427.3
67.5°	233.4	163.0	206.2	340.9	423.6	421.1	397.6	390.2	372.9	369.2	361.8
70°	172.9	108.7	143.3	276.7	366.8	360.6	342.1	333.4	317.4	308.7	303.8
72.5°	143.3	87.7	105.0	214.9	308.7	301.3	285.3	275.4	261.8	254.4	249.5
75°	116.1	92.6	80.3	159.3	250.7	245.7	231.0	221.1	209.9	200.0	201.3
77.5°	85.2	86.5	64.2	117.3	198.8	191.4	182.7	170.4	165.4	155.6	155.6
80°	64.2	68.0	48.1	80.3	143.3	143.3	135.8	127.2	118.5	113.7	113.7
82.5°	43.2	43.2	35.8	50.7	97.6	93.8	88.9	86.5	81.5	79.1	79.1
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.9	49.4	50.7
87.5°	6.2	11.1	13.6	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	22.1	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0	55.1	52.9
95°	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4	186.8	180.2
97.5°	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5	431.5	418.8
100°	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2	605.9	590.8
102.5°	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7	754.8	741.9
105°	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0	928.6	921.7
107.5°	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6	1019.0	1020.7
110°	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4	1042.2	1049.4



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8	1027.4	1038.6
115°	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9	977.3	992.7
117.5°	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4	908.1	925.1
120°	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5	861.4	878.0
122.5°	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1	814.8	831.1
125°	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6	753.1	768.1
127.5°	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6	703.6	716.3
130°	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9	672.2	683.9
132.5°	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5	645.6	656.1
135°	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2	607.9	617.0
137.5°	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4	580.1	587.5
140°	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8	557.7	564.7
142.5°	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5	542.1	548.1
145°	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8	518.7	523.2
147.5°	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7	498.9	502.7
150°	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2	487.6	490.6
152.5°	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2	478.7	480.9
155°	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0	467.9	469.4
157.5°	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8	458.7	459.7
160°	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8	454.1	454.6
162.5°	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8	449.7	450.2
165°	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4	443.1	443.7
167.5°	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5	440.2	440.4
170°	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5	440.2	440.2
172.5°	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9	437.8	437.6
175°	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8	434.6	434.6
177.5°	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6	434.1	433.8
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1338.7	1335.0	1338.7	1336.3	1337.5	1333.7	1322.6	1319.0	1322.6	1326.3	1326.3
5°	1354.8	1352.3	1354.8	1354.8	1353.5	1351.0	1338.7	1336.3	1338.7	1339.9	1337.5
7.5°	1359.7	1356.0	1359.7	1357.2	1357.2	1354.8	1342.4	1339.9	1341.2	1344.9	1341.2
10°	1359.7	1356.0	1359.7	1358.5	1357.2	1354.8	1342.4	1337.5	1337.5	1341.2	1337.5
12.5°	1353.5	1351.0	1353.5	1351.0	1351.0	1348.6	1336.3	1331.3	1332.5	1333.7	1328.9
15°	1343.6	1339.9	1343.6	1341.2	1342.4	1338.7	1325.1	1320.2	1320.2	1322.6	1314.0
17.5°	1328.9	1323.9	1328.9	1327.6	1326.3	1323.9	1311.6	1306.6	1305.3	1306.6	1300.5
20°	1311.6	1307.8	1311.6	1310.3	1310.3	1305.3	1293.0	1286.8	1286.8	1286.8	1280.6
22.5°	1284.4	1280.6	1284.4	1286.8	1286.8	1285.6	1274.5	1265.9	1263.3	1263.3	1256.0
25°	1253.5	1249.8	1253.5	1253.5	1252.2	1253.5	1249.8	1244.8	1241.1	1237.5	1230.1
27.5°	1223.8	1221.4	1223.8	1221.4	1223.8	1220.2	1219.0	1217.6	1212.8	1209.0	1199.1
30°	1194.2	1191.8	1194.2	1191.8	1189.3	1186.8	1180.6	1178.2	1183.1	1180.6	1164.6
32.5°	1157.2	1154.7	1157.2	1157.2	1154.7	1154.7	1144.8	1141.1	1142.3	1149.8	1134.9
35°	1118.8	1115.2	1118.8	1117.6	1118.8	1115.2	1109.0	1107.7	1102.9	1111.5	1100.3
37.5°	1074.4	1070.7	1074.4	1074.4	1074.4	1076.9	1071.9	1068.3	1060.8	1071.9	1063.3
40°	1028.7	1023.8	1028.7	1027.5	1028.7	1031.2	1028.7	1026.2	1018.8	1027.5	1020.0
42.5°	976.9	975.6	976.9	978.1	978.1	983.0	986.8	981.8	979.3	973.1	978.1
45°	921.2	918.8	921.2	923.8	925.0	927.4	938.5	938.5	934.9	925.0	932.4
47.5°	862.0	855.8	862.0	869.5	869.5	873.1	884.2	892.9	886.7	874.3	878.1
50°	799.0	800.3	799.0	803.9	803.9	817.6	826.2	834.9	841.0	826.2	808.9
52.5°	737.3	736.1	737.3	740.9	745.9	752.1	766.9	775.5	785.4	776.8	749.6
55°	675.5	678.0	675.5	676.7	679.3	682.9	705.1	713.8	732.3	721.2	692.8
57.5°	613.8	610.1	613.8	616.3	617.5	621.2	639.7	655.8	666.9	668.1	633.5
60°	542.1	537.2	542.1	553.3	555.8	558.2	575.5	590.4	600.2	603.9	568.1
62.5°	479.1	470.5	479.1	486.6	491.6	497.7	510.1	532.3	540.9	542.1	491.6
65°	412.5	408.7	412.5	427.3	428.6	435.9	449.5	465.6	484.1	481.7	408.7
67.5°	352.0	352.0	352.0	361.8	369.2	372.9	390.2	397.6	421.1	423.6	340.9
70°	296.4	295.2	296.4	303.8	308.7	317.4	333.4	342.1	360.6	366.8	276.7
72.5°	243.3	242.1	243.3	249.5	254.4	261.8	275.4	285.3	301.3	308.7	214.9
75°	196.4	193.9	196.4	201.3	200.0	209.9	221.1	231.0	245.7	250.7	159.3
77.5°	150.7	150.7	150.7	155.6	155.6	165.4	170.4	182.7	191.4	198.8	117.3
80°	112.4	111.1	112.4	113.7	113.7	118.5	127.2	135.8	143.3	143.3	80.3
82.5°	79.1	76.6	79.1	79.1	79.1	81.5	86.5	88.9	93.8	97.6	50.7
85°	49.4	49.4	49.4	50.7	49.4	51.9	53.1	55.6	55.6	53.1	30.8
87.5°	32.2	30.8	32.2	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	22.1	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9	78.6	55.9
95°	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1	193.5	109.0
97.5°	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5	260.6	119.6
100°	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5	285.0	128.6
102.5°	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7	296.2	137.6
105°	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3	304.5	151.0
107.5°	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6	306.1	170.7
110°	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5	303.8	181.7



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0	303.9	195.0
115°	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8	306.7	215.0
117.5°	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2	312.4	234.4
120°	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0	317.0	245.7
122.5°	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8	323.6	259.0
125°	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0	332.7	276.1
127.5°	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0	341.6	292.7
130°	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5	348.2	303.7
132.5°	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0	353.5	312.7
135°	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6	359.3	323.0
137.5°	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1	368.0	336.4
140°	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5	373.3	345.4
142.5°	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0	377.7	352.0
145°	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0	383.5	362.2
147.5°	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8	392.0	374.9
150°	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3	396.5	381.6
152.5°	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3	399.4	385.9
155°	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4	405.8	395.5
157.5°	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6	412.1	405.1
160°	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5	415.0	409.4
162.5°	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5	418.1	414.1
165°	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0	422.6	420.7
167.5°	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1	426.0	424.4
170°	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0	428.9	428.8
172.5°	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7	430.9	431.7
177.5°	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2	431.1	431.7
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1323.9	1316.4	1316.4	1304.1	1299.1	1295.5	1289.3	1270.8	1265.9	1260.9	1268.3
5°	1335.0	1321.4	1311.6	1289.3	1270.8	1263.3	1239.9	1195.5	1165.8	1143.6	1131.3
7.5°	1337.5	1320.2	1301.7	1267.1	1222.6	1202.9	1131.3	1049.8	1027.5	1007.7	995.4
10°	1335.0	1315.2	1289.3	1237.5	1132.5	1097.9	1026.2	973.1	959.6	955.8	959.6
12.5°	1326.3	1307.8	1272.0	1185.6	1038.6	1015.2	973.1	942.3	939.8	946.0	979.3
15°	1311.6	1294.3	1252.2	1116.4	986.8	969.5	939.8	928.7	942.3	985.5	1085.6
17.5°	1296.7	1277.0	1225.1	1048.5	947.2	934.9	913.9	936.1	1012.7	1070.7	1104.1
20°	1277.0	1253.5	1194.2	999.1	918.8	907.7	897.8	997.9	1055.9	1076.9	1095.4
22.5°	1253.5	1228.8	1152.2	964.5	889.2	880.5	886.7	1032.5	1055.9	1070.7	1086.8
25°	1222.6	1201.7	1102.9	937.3	865.7	855.8	879.3	1028.7	1042.3	1046.0	1078.1
27.5°	1194.2	1167.1	1051.0	912.6	837.3	833.6	885.4	1012.7	1022.6	1026.2	1060.8
30°	1159.6	1118.8	992.9	886.7	807.7	806.5	886.7	992.9	990.4	1000.3	1034.9
32.5°	1123.8	1047.2	927.4	854.6	779.3	778.0	878.1	963.3	960.8	974.4	1000.3
35°	1090.5	991.7	838.5	817.6	743.5	744.7	857.0	928.7	929.9	942.3	958.4
37.5°	1055.9	943.5	740.9	776.8	708.9	708.9	828.6	896.6	894.1	897.8	920.0
40°	1015.2	868.2	654.6	723.6	676.7	673.1	794.1	862.0	853.4	852.2	883.0
42.5°	971.9	785.4	590.4	653.3	639.7	634.8	752.1	820.0	803.9	807.7	847.2
45°	925.0	763.2	540.9	552.0	601.4	597.7	706.4	771.9	760.8	770.7	811.4
47.5°	878.1	718.8	524.8	458.2	560.6	559.4	655.8	725.0	718.8	728.6	771.9
50°	813.8	669.3	523.6	392.8	515.0	519.9	595.2	679.3	679.3	687.9	733.6
52.5°	731.1	608.9	475.5	355.7	461.8	476.7	542.1	639.7	642.1	650.8	691.6
55°	655.8	545.9	440.9	327.2	398.9	431.0	490.3	599.0	603.9	612.5	649.6
57.5°	586.6	454.5	433.5	294.0	340.9	371.7	444.5	559.4	561.9	569.3	605.1
60°	512.5	328.5	397.6	258.1	290.2	313.7	402.6	512.5	521.2	526.1	557.0
62.5°	428.6	238.4	360.6	233.4	265.5	270.5	368.0	468.0	479.1	482.9	501.4
65°	305.0	200.0	306.3	212.5	239.6	240.8	331.0	422.4	432.2	438.4	452.0
67.5°	206.2	163.0	233.4	192.6	219.8	221.1	295.2	369.2	382.9	387.8	396.4
70°	143.3	108.7	172.9	171.7	197.6	200.0	256.9	321.1	333.4	337.1	342.1
72.5°	105.0	87.7	143.3	154.4	174.1	176.6	217.3	266.8	279.1	282.8	285.3
75°	80.3	92.6	116.1	134.6	148.2	149.5	177.9	217.3	226.0	228.4	229.7
77.5°	64.2	86.5	85.2	108.7	121.0	118.5	139.6	168.0	175.4	175.4	175.4
80°	48.1	68.0	64.2	77.8	88.9	86.5	100.0	119.8	122.3	124.7	123.5
82.5°	35.8	43.2	43.2	49.4	59.3	56.8	66.6	77.8	77.8	77.8	80.3
85°	22.2	24.7	19.7	25.9	33.4	32.2	37.0	42.0	43.2	43.2	40.8
87.5°	13.6	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	22.1	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.6	108.9	124.0	108.7	78.0
95°	100.0	63.9	27.9	63.9	100.0	109.0	193.5	306.1	362.5	323.4	245.4
97.5°	111.7	79.9	48.1	79.9	111.7	119.6	260.6	448.5	542.4	517.7	468.5
100°	121.4	92.5	63.7	92.5	121.4	128.6	285.0	493.5	597.7	599.5	603.2
102.5°	130.9	104.0	77.1	104.0	130.9	137.6	296.2	507.7	613.4	644.9	707.7
105°	145.3	122.4	99.6	122.4	145.3	151.0	304.5	509.3	611.7	682.1	823.0
107.5°	165.3	144.1	122.8	144.1	165.3	170.7	306.1	486.6	576.9	675.1	871.6
110°	176.9	157.7	138.5	157.7	176.9	181.7	303.8	466.5	547.9	657.8	877.4



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.4	172.2	153.9	172.2	190.4	195.0	303.9	449.0	521.6	634.0	858.8
115°	210.8	193.9	177.0	193.9	210.8	215.0	306.7	428.8	490.0	598.3	814.9
117.5°	230.6	215.3	199.9	215.3	230.6	234.4	312.4	416.2	468.2	566.0	761.4
120°	242.1	227.7	213.3	227.7	242.1	245.7	317.0	412.0	459.5	548.9	727.5
122.5°	255.4	240.9	226.3	240.9	255.4	259.0	323.6	409.8	452.9	533.2	694.1
125°	272.8	259.6	246.3	259.6	272.8	276.1	332.7	408.0	445.7	514.0	650.6
127.5°	289.3	275.9	262.6	275.9	289.3	292.7	341.6	407.0	439.6	498.3	615.6
130°	300.0	285.6	271.3	285.6	300.0	303.7	348.2	407.5	437.3	489.5	593.9
132.5°	309.0	294.6	280.2	294.6	309.0	312.7	353.5	408.0	435.2	481.9	575.5
135°	319.8	306.6	293.5	306.6	319.8	323.0	359.3	407.6	431.7	470.9	549.2
137.5°	333.1	320.1	307.1	320.1	333.1	336.4	368.0	410.1	431.2	464.3	530.4
140°	342.4	330.4	318.5	330.4	342.4	345.4	373.3	410.5	429.1	457.7	514.8
142.5°	349.2	338.2	327.1	338.2	349.2	352.0	377.7	412.0	429.1	454.3	504.5
145°	359.8	350.1	340.4	350.1	359.8	362.2	383.5	412.0	426.2	446.8	487.8
147.5°	372.6	363.1	353.8	363.1	372.6	374.9	392.0	414.8	426.2	442.4	474.7
150°	379.5	371.0	362.5	371.0	379.5	381.6	396.5	416.3	426.2	439.9	467.2
152.5°	384.4	377.9	371.5	377.9	384.4	385.9	399.4	417.3	426.2	437.9	461.2
155°	394.3	389.6	384.8	389.6	394.3	395.5	405.8	419.4	426.2	435.5	454.0
157.5°	404.0	399.3	394.6	399.3	404.0	405.1	412.1	421.6	426.2	433.4	447.8
160°	408.5	404.9	401.3	404.9	408.5	409.4	415.0	422.5	426.2	432.4	444.8
162.5°	413.4	410.7	408.0	410.7	413.4	414.1	418.1	423.5	426.2	431.5	441.8
165°	420.1	417.6	415.2	417.6	420.1	420.7	422.6	425.0	426.2	430.0	437.4
167.5°	424.2	423.0	421.8	423.0	424.2	424.4	426.0	428.1	429.1	431.6	436.5
170°	428.6	427.3	426.2	427.3	428.6	428.8	428.9	429.0	429.1	431.6	436.5
172.5°	429.0	428.8	428.6	428.8	429.0	429.1	429.1	429.1	429.1	431.1	434.9
175°	431.7	431.7	431.7	431.7	431.7	431.7	430.9	429.7	429.1	430.3	432.8
177.5°	431.7	431.7	431.7	431.7	431.7	431.7	431.1	430.2	429.7	430.6	432.6
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1259.7	1256.0	1260.9	1247.3	1260.9	1256.0	1259.7	1268.3	1260.9	1265.9	1270.8
5°	1105.3	1099.1	1079.4	1063.3	1079.4	1099.1	1105.3	1131.3	1143.6	1165.8	1195.5
7.5°	988.0	983.0	978.1	968.2	978.1	983.0	988.0	995.4	1007.7	1027.5	1049.8
10°	962.0	963.3	970.7	969.5	970.7	963.3	962.0	959.6	955.8	959.6	973.1
12.5°	1028.7	1039.9	1080.6	1078.1	1080.6	1039.9	1028.7	979.3	946.0	939.8	942.3
15°	1105.3	1109.0	1117.6	1118.8	1117.6	1109.0	1105.3	1085.6	985.5	942.3	928.7
17.5°	1112.7	1114.0	1120.2	1120.2	1120.2	1114.0	1112.7	1104.1	1070.7	1012.7	936.1
20°	1106.5	1109.0	1121.4	1123.8	1121.4	1109.0	1106.5	1095.4	1076.9	1055.9	997.9
22.5°	1104.1	1109.0	1118.8	1117.6	1118.8	1109.0	1104.1	1086.8	1070.7	1055.9	1032.5
25°	1091.7	1091.7	1093.0	1094.2	1093.0	1091.7	1091.7	1078.1	1046.0	1042.3	1028.7
27.5°	1065.8	1068.3	1075.7	1074.4	1075.7	1068.3	1065.8	1060.8	1026.2	1022.6	1012.7
30°	1042.3	1039.9	1033.7	1028.7	1033.7	1039.9	1042.3	1034.9	1000.3	990.4	992.9
32.5°	1002.8	996.6	990.4	986.8	990.4	996.6	1002.8	1000.3	974.4	960.8	963.3
35°	955.8	957.1	955.8	952.2	955.8	957.1	955.8	958.4	942.3	929.9	928.7
37.5°	922.6	925.0	923.8	918.8	923.8	925.0	922.6	920.0	897.8	894.1	896.6
40°	888.0	889.2	888.0	884.2	888.0	889.2	888.0	883.0	852.2	853.4	862.0
42.5°	854.6	853.4	849.6	847.2	849.6	853.4	854.6	847.2	807.7	803.9	820.0
45°	816.3	817.6	810.1	806.5	810.1	817.6	816.3	811.4	770.7	760.8	771.9
47.5°	778.0	778.0	771.9	768.1	771.9	778.0	778.0	771.9	728.6	718.8	725.0
50°	737.3	736.1	727.4	726.2	727.4	736.1	737.3	733.6	687.9	679.3	679.3
52.5°	690.4	690.4	691.6	694.0	691.6	690.4	690.4	691.6	650.8	642.1	639.7
55°	649.6	650.8	659.4	662.0	659.4	650.8	649.6	649.6	612.5	603.9	599.0
57.5°	607.6	607.6	613.8	613.8	613.8	607.6	607.6	605.1	569.3	561.9	559.4
60°	559.4	561.9	566.8	565.6	566.8	561.9	559.4	557.0	526.1	521.2	512.5
62.5°	508.8	511.3	512.5	510.1	512.5	511.3	508.8	501.4	482.9	479.1	468.0
65°	455.7	458.2	459.4	457.0	459.4	458.2	455.7	452.0	438.4	432.2	422.4
67.5°	401.4	400.1	398.9	403.8	398.9	400.1	401.4	396.4	387.8	382.9	369.2
70°	345.7	345.7	344.5	347.1	344.5	345.7	345.7	342.1	337.1	333.4	321.1
72.5°	286.5	285.3	290.2	286.5	290.2	285.3	286.5	285.3	282.8	279.1	266.8
75°	228.4	231.0	228.4	232.2	228.4	231.0	228.4	229.7	228.4	226.0	217.3
77.5°	174.1	176.6	174.1	174.1	174.1	176.6	174.1	175.4	175.4	175.4	168.0
80°	123.5	122.3	122.3	121.0	122.3	122.3	123.5	123.5	124.7	122.3	119.8
82.5°	79.1	77.8	77.8	80.3	77.8	77.8	79.1	80.3	77.8	77.8	77.8
85°	43.2	44.5	42.0	42.0	42.0	44.5	43.2	40.8	43.2	43.2	42.0
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	22.1	19.0
92.5°	55.1	52.9	44.1	35.3	44.1	52.9	55.1	78.0	108.7	124.0	108.9
95°	186.8	180.2	153.8	127.2	153.8	180.2	186.8	245.4	323.4	362.5	306.1
97.5°	431.5	418.8	368.4	317.9	368.4	418.8	431.5	468.5	517.7	542.4	448.5
100°	605.9	590.8	530.7	470.5	530.7	590.8	605.9	603.2	599.5	597.7	493.5
102.5°	754.8	741.9	690.4	638.9	690.4	741.9	754.8	707.7	644.9	613.4	507.7
105°	928.6	921.7	894.0	866.4	894.0	921.7	928.6	823.0	682.1	611.7	509.3
107.5°	1019.0	1020.7	1027.4	1034.2	1027.4	1020.7	1019.0	871.6	675.1	576.9	486.6
110°	1042.2	1049.4	1078.3	1107.2	1078.3	1049.4	1042.2	877.4	657.8	547.9	466.5



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1027.4	1038.6	1082.9	1127.2	1082.9	1038.6	1027.4	858.8	634.0	521.6	449.0
115°	977.3	992.7	1054.2	1115.6	1054.2	992.7	977.3	814.9	598.3	490.0	428.8
117.5°	908.1	925.1	993.2	1061.4	993.2	925.1	908.1	761.4	566.0	468.2	416.2
120°	861.4	878.0	944.1	1010.3	944.1	878.0	861.4	727.5	548.9	459.5	412.0
122.5°	814.8	831.1	896.4	961.7	896.4	831.1	814.8	694.1	533.2	452.9	409.8
125°	753.1	768.1	828.2	888.3	828.2	768.1	753.1	650.6	514.0	445.7	408.0
127.5°	703.6	716.3	766.9	817.7	766.9	716.3	703.6	615.6	498.3	439.6	407.0
130°	672.2	683.9	730.8	777.7	730.8	683.9	672.2	593.9	489.5	437.3	407.5
132.5°	645.6	656.1	698.0	740.0	698.0	656.1	645.6	575.5	481.9	435.2	408.0
135°	607.9	617.0	653.2	689.3	653.2	617.0	607.9	549.2	470.9	431.7	407.6
137.5°	580.1	587.5	617.1	646.7	617.1	587.5	580.1	530.4	464.3	431.2	410.1
140°	557.7	564.7	592.4	620.1	592.4	564.7	557.7	514.8	457.7	429.1	410.5
142.5°	542.1	548.1	571.9	595.7	571.9	548.1	542.1	504.5	454.3	429.1	412.0
145°	518.7	523.2	541.2	559.2	541.2	523.2	518.7	487.8	446.8	426.2	412.0
147.5°	498.9	502.7	517.6	532.6	517.6	502.7	498.9	474.7	442.4	426.2	414.8
150°	487.6	490.6	502.8	514.9	502.8	490.6	487.6	467.2	439.9	426.2	416.3
152.5°	478.7	480.9	490.1	499.2	490.1	480.9	478.7	461.2	437.9	426.2	417.3
155°	467.9	469.4	475.5	481.6	475.5	469.4	467.9	454.0	435.5	426.2	419.4
157.5°	458.7	459.7	464.0	468.2	464.0	459.7	458.7	447.8	433.4	426.2	421.6
160°	454.1	454.6	457.1	459.5	457.1	454.6	454.1	444.8	432.4	426.2	422.5
162.5°	449.7	450.2	452.6	454.9	452.6	450.2	449.7	441.8	431.5	426.2	423.5
165°	443.1	443.7	446.1	448.6	446.1	443.7	443.1	437.4	430.0	426.2	425.0
167.5°	440.2	440.4	441.5	442.5	441.5	440.4	440.2	436.5	431.6	429.1	428.1
170°	440.2	440.2	440.2	440.2	440.2	440.2	440.2	436.5	431.6	429.1	429.0
172.5°	437.8	437.6	436.7	435.8	436.7	437.6	437.8	434.9	431.1	429.1	429.1
175°	434.6	434.6	434.6	434.6	434.6	434.6	434.6	432.8	430.3	429.1	429.7
177.5°	434.1	433.8	432.8	431.7	432.8	433.8	434.1	432.6	430.6	429.7	430.2
180°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1289.3	1295.5	1299.1	1304.1	1316.4
5°	1239.9	1263.3	1270.8	1289.3	1311.6
7.5°	1131.3	1202.9	1222.6	1267.1	1301.7
10°	1026.2	1097.9	1132.5	1237.5	1289.3
12.5°	973.1	1015.2	1038.6	1185.6	1272.0
15°	939.8	969.5	986.8	1116.4	1252.2
17.5°	913.9	934.9	947.2	1048.5	1225.1
20°	897.8	907.7	918.8	999.1	1194.2
22.5°	886.7	880.5	889.2	964.5	1152.2
25°	879.3	855.8	865.7	937.3	1102.9
27.5°	885.4	833.6	837.3	912.6	1051.0
30°	886.7	806.5	807.7	886.7	992.9
32.5°	878.1	778.0	779.3	854.6	927.4
35°	857.0	744.7	743.5	817.6	838.5
37.5°	828.6	708.9	708.9	776.8	740.9
40°	794.1	673.1	676.7	723.6	654.6
42.5°	752.1	634.8	639.7	653.3	590.4
45°	706.4	597.7	601.4	552.0	540.9
47.5°	655.8	559.4	560.6	458.2	524.8
50°	595.2	519.9	515.0	392.8	523.6
52.5°	542.1	476.7	461.8	355.7	475.5
55°	490.3	431.0	398.9	327.2	440.9
57.5°	444.5	371.7	340.9	294.0	433.5
60°	402.6	313.7	290.2	258.1	397.6
62.5°	368.0	270.5	265.5	233.4	360.6
65°	331.0	240.8	239.6	212.5	306.3
67.5°	295.2	221.1	219.8	192.6	233.4
70°	256.9	200.0	197.6	171.7	172.9
72.5°	217.3	176.6	174.1	154.4	143.3
75°	177.9	149.5	148.2	134.6	116.1
77.5°	139.6	118.5	121.0	108.7	85.2
80°	100.0	86.5	88.9	77.8	64.2
82.5°	66.6	56.8	59.3	49.4	43.2
85°	37.0	32.2	33.4	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°	78.6	55.9	50.9	31.3	11.6
95°	193.5	109.0	100.0	63.9	27.9
97.5°	260.6	119.6	111.7	79.9	48.1
100°	285.0	128.6	121.4	92.5	63.7
102.5°	296.2	137.6	130.9	104.0	77.1
105°	304.5	151.0	145.3	122.4	99.6
107.5°	306.1	170.7	165.3	144.1	122.8
110°	303.8	181.7	176.9	157.7	138.5



TEST NUMBER: P934835

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.9	195.0	190.4	172.2	153.9
115°	306.7	215.0	210.8	193.9	177.0
117.5°	312.4	234.4	230.6	215.3	199.9
120°	317.0	245.7	242.1	227.7	213.3
122.5°	323.6	259.0	255.4	240.9	226.3
125°	332.7	276.1	272.8	259.6	246.3
127.5°	341.6	292.7	289.3	275.9	262.6
130°	348.2	303.7	300.0	285.6	271.3
132.5°	353.5	312.7	309.0	294.6	280.2
135°	359.3	323.0	319.8	306.6	293.5
137.5°	368.0	336.4	333.1	320.1	307.1
140°	373.3	345.4	342.4	330.4	318.5
142.5°	377.7	352.0	349.2	338.2	327.1
145°	383.5	362.2	359.8	350.1	340.4
147.5°	392.0	374.9	372.6	363.1	353.8
150°	396.5	381.6	379.5	371.0	362.5
152.5°	399.4	385.9	384.4	377.9	371.5
155°	405.8	395.5	394.3	389.6	384.8
157.5°	412.1	405.1	404.0	399.3	394.6
160°	415.0	409.4	408.5	404.9	401.3
162.5°	418.1	414.1	413.4	410.7	408.0
165°	422.6	420.7	420.1	417.6	415.2
167.5°	426.0	424.4	424.2	423.0	421.8
170°	428.9	428.8	428.6	427.3	426.2
172.5°	429.1	429.1	429.0	428.8	428.6
175°	430.9	431.7	431.7	431.7	431.7
177.5°	431.1	431.7	431.7	431.7	431.7
180°	431.7	431.7	431.7	431.7	431.7



TEST NUMBER: P934835
 CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-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	13.89	14.79	14.80	15.73	16.93	16.69	17.59	17.60	18.52	19.73
	3H	14.37	15.18	15.30	16.12	17.35	18.02	18.84	18.95	19.78	21.01
	4H	14.56	15.33	15.50	16.28	17.51	18.46	19.23	19.41	20.18	21.41
	6H	14.68	15.39	15.64	16.34	17.59	18.74	19.45	19.70	20.40	21.65
	8H	14.69	15.36	15.65	16.33	17.58	18.82	19.49	19.78	20.46	21.71
	12H	14.66	15.30	15.62	16.26	17.53	18.85	19.49	19.82	20.46	21.73
4H	2H	14.92	15.69	15.87	16.63	17.87	17.10	17.87	18.05	18.82	20.05
	3H	15.95	16.59	16.91	17.57	18.82	18.60	19.24	19.56	20.22	21.47
	4H	16.23	16.81	17.19	17.78	19.06	19.13	19.71	20.09	20.68	21.96
	6H	16.35	16.86	17.33	17.85	19.13	19.48	19.99	20.46	20.98	22.26
	8H	16.36	16.83	17.34	17.82	19.11	19.59	20.06	20.57	21.05	22.33
	12H	16.33	16.76	17.33	17.76	19.05	19.64	20.07	20.64	21.07	22.36
8H	4H	16.68	17.15	17.66	18.14	19.43	19.25	19.72	20.24	20.71	22.00
	6H	16.94	17.33	17.95	18.36	19.65	19.68	20.07	20.69	21.10	22.39
	8H	16.99	17.33	18.00	18.35	19.65	19.83	20.17	20.85	21.19	22.50
	12H	16.97	17.27	17.99	18.29	19.63	19.93	20.23	20.95	21.24	22.59
12H	4H	16.69	17.11	17.69	18.12	19.41	19.22	19.64	20.22	20.65	21.94
	6H	17.00	17.35	18.02	18.36	19.67	19.68	20.03	20.70	21.04	22.35
	8H	17.07	17.37	18.09	18.38	19.73	19.84	20.14	20.86	21.15	22.50