

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: P935635

Luminaire Tested: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935635
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-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: -

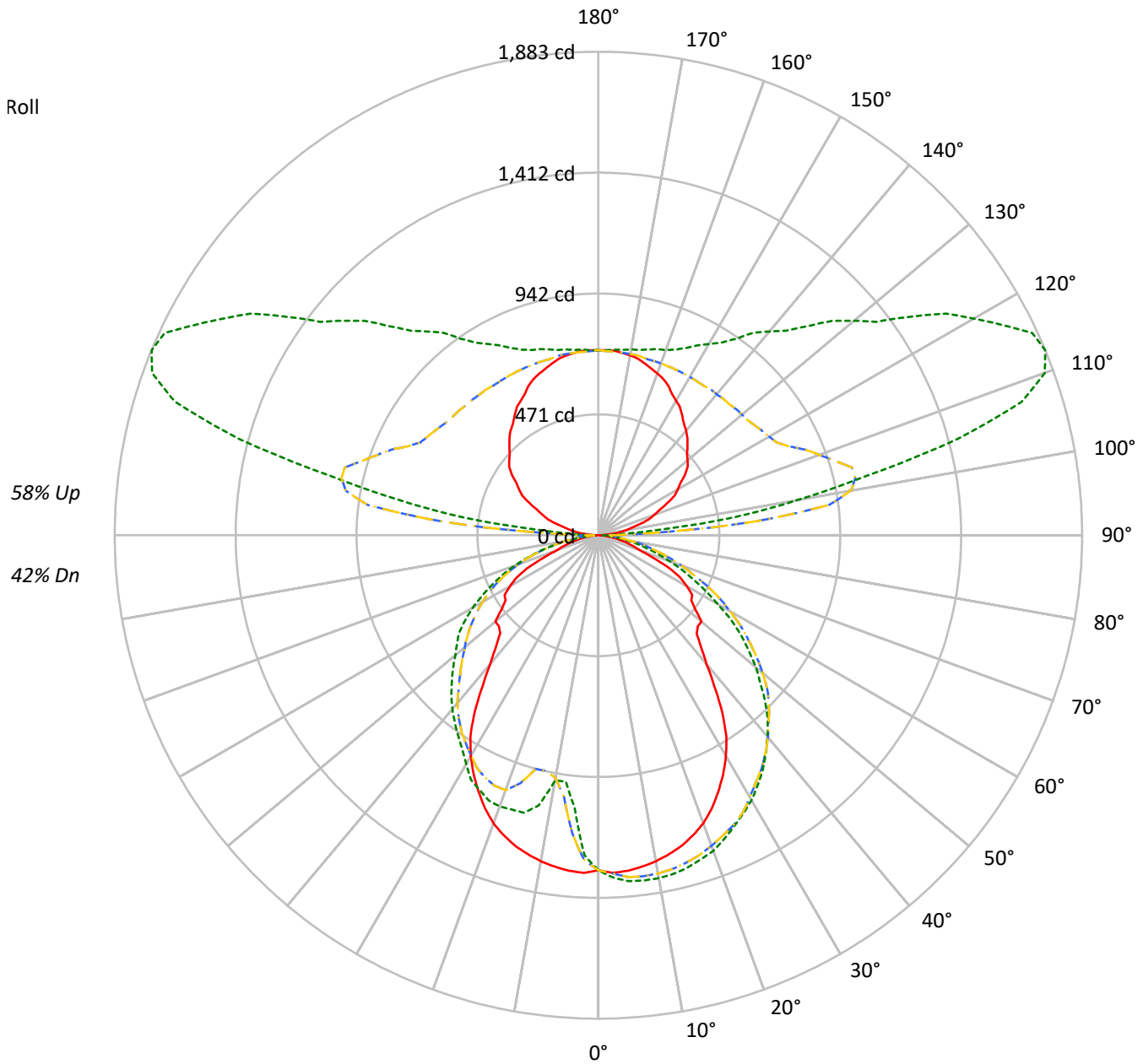
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8061.9 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): 64.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.5
10°-20°	334.6	4.1
20°-30°	517.2	6.4
30°-40°	617.4	7.7
40°-50°	621.0	7.7
50°-60°	540.3	6.7
60°-70°	383.1	4.8
70°-80°	202.7	2.5
80°-90°	53.2	0.7
90°-100°	351.5	4.4
100°-110°	924.1	11.5
110°-120°	958.2	11.9
120°-130°	768.6	9.5
130°-140°	603.1	7.5
140°-150°	462.9	5.7
150°-160°	333.3	4.1
160°-170°	204.0	2.5
170°-180°	68.9	0.9
0°-30°	969.6	12.0
0°-40°	1586.9	19.7
0°-60°	2748.3	34.1
0°-90°	3387.3	42.0
90°-120°	2233.8	27.7
90°-150°	4068.3	50.5
90°-180°	4675.0	58.0
0°-180°	8061.9	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°	5	18	5	18	5	5
95°	46	212	46	212	46	52
105°	166	1447	166	1447	166	176
115°	296	1863	296	1863	296	292
125°	411	1484	411	1484	411	365
135°	490	1151	490	1151	490	379
145°	569	934	569	934	569	356
155°	643	804	643	804	643	295
165°	694	749	694	749	694	196
175°	721	726	721	726	721	68
180°	721	721	721	721	721	



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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°	4.9	8.7	12.6	13.6	21.3	31.6	36.7	32.6	24.5	18.4	18.4
92.5°	19.3	52.3	85.2	93.4	131.3	181.9	207.1	181.5	130.4	92.0	88.3
95°	46.5	106.6	166.9	182.0	323.1	511.3	605.4	540.3	410.0	312.2	301.1
97.5°	80.3	133.4	186.6	199.8	435.2	749.0	905.9	864.7	782.3	720.6	699.5
100°	106.5	154.7	202.8	214.9	476.0	824.2	998.4	1001.4	1007.4	1011.9	986.8
102.5°	128.7	173.7	218.6	229.8	494.7	848.0	1024.5	1077.1	1182.0	1260.7	1239.2
105°	166.5	204.6	242.6	252.2	508.7	850.7	1021.6	1139.3	1374.6	1551.1	1539.5
107.5°	205.2	240.7	276.2	285.1	511.3	812.8	963.6	1127.7	1455.9	1702.0	1704.8
110°	231.3	263.4	295.4	303.4	507.4	779.3	915.2	1098.7	1465.6	1740.8	1752.9



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-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°	257.0	287.5	318.0	325.7	507.5	749.9	871.1	1058.9	1434.5	1716.1	1734.6
115°	295.6	323.9	352.1	359.1	512.2	716.3	818.3	999.2	1361.0	1632.4	1658.0
117.5°	334.0	359.6	385.2	391.5	521.8	695.3	782.1	945.3	1271.8	1516.7	1545.1
120°	356.2	380.3	404.4	410.4	529.5	688.2	767.6	916.8	1215.0	1438.8	1466.5
122.5°	378.0	402.3	426.6	432.7	540.6	684.5	756.5	890.8	1159.4	1360.8	1388.1
125°	411.4	433.5	455.7	461.2	555.6	681.4	744.3	858.4	1086.6	1257.7	1282.9
127.5°	438.5	460.8	483.1	488.8	570.5	679.6	734.1	832.1	1028.1	1175.0	1196.2
130°	453.0	477.1	501.2	507.2	581.6	680.7	730.3	817.5	991.9	1122.8	1142.3
132.5°	468.0	492.1	516.2	522.2	590.5	681.4	726.9	805.0	961.2	1078.3	1095.8
135°	490.3	512.2	534.1	539.6	600.1	680.7	721.1	786.6	917.3	1015.4	1030.5
137.5°	513.0	534.7	556.4	561.9	614.6	685.0	720.1	775.3	885.9	968.8	981.2
140°	531.8	551.9	571.9	576.9	623.5	685.7	716.7	764.5	860.0	931.6	943.2
142.5°	546.3	564.8	583.4	588.0	630.9	688.1	716.7	758.7	842.5	905.4	915.4
145°	568.7	584.8	600.9	604.9	640.6	688.1	711.9	746.2	814.8	866.3	873.9
147.5°	590.9	606.6	622.3	626.3	654.8	692.8	711.9	738.9	792.9	833.4	839.6
150°	605.4	619.6	633.8	637.4	662.2	695.3	711.9	734.7	780.3	814.5	819.6
152.5°	620.5	631.2	642.0	644.7	667.1	696.9	711.9	731.3	770.3	799.5	803.3
155°	642.7	650.6	658.6	660.6	677.7	700.5	711.9	727.4	758.3	781.6	784.1
157.5°	659.2	666.9	674.6	676.5	688.3	704.0	711.9	723.9	748.0	766.1	767.9
160°	670.3	676.3	682.3	683.8	693.2	705.6	711.9	722.2	742.8	758.3	759.4
162.5°	681.4	685.9	690.5	691.6	698.3	707.4	711.9	720.6	738.0	751.1	752.1
165°	693.5	697.6	701.7	702.7	705.8	709.8	711.9	718.1	730.6	739.9	740.9
167.5°	704.7	706.5	708.5	709.0	711.6	715.1	716.7	720.8	729.0	735.1	735.6
170°	711.9	713.8	715.8	716.3	716.5	716.6	716.7	720.8	729.0	735.1	735.1
172.5°	715.8	716.2	716.6	716.7	716.7	716.7	716.7	719.9	726.4	731.2	730.8
175°	721.1	721.1	721.1	721.1	719.6	717.7	716.7	718.8	722.8	725.9	725.9
177.5°	721.1	721.1	721.1	721.1	720.0	718.4	717.7	719.3	722.5	725.0	724.5
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



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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°	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6	21.3	13.6
92.5°	73.7	59.1	73.7	88.3	92.0	130.4	181.5	207.1	181.9	131.3	93.4
95°	256.8	212.5	256.8	301.1	312.2	410.0	540.3	605.4	511.3	323.1	182.0
97.5°	615.2	530.9	615.2	699.5	720.6	782.3	864.7	905.9	749.0	435.2	199.8
100°	886.4	785.9	886.4	986.8	1011.9	1007.4	1001.4	998.4	824.2	476.0	214.9
102.5°	1153.1	1067.2	1153.1	1239.2	1260.7	1182.0	1077.1	1024.5	848.0	494.7	229.8
105°	1493.3	1447.0	1493.3	1539.5	1551.1	1374.6	1139.3	1021.6	850.7	508.7	252.2
107.5°	1716.0	1727.2	1716.0	1704.8	1702.0	1455.9	1127.7	963.6	812.8	511.3	285.1
110°	1801.0	1849.1	1801.0	1752.9	1740.8	1465.6	1098.7	915.2	779.3	507.4	303.4



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-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°	1808.6	1882.6	1808.6	1734.6	1716.1	1434.5	1058.9	871.1	749.9	507.5	325.7
115°	1760.6	1863.2	1760.6	1658.0	1632.4	1361.0	999.2	818.3	716.3	512.2	359.1
117.5°	1658.9	1772.7	1658.9	1545.1	1516.7	1271.8	945.3	782.1	695.3	521.8	391.5
120°	1576.9	1687.5	1576.9	1466.5	1438.8	1215.0	916.8	767.6	688.2	529.5	410.4
122.5°	1497.1	1606.2	1497.1	1388.1	1360.8	1159.4	890.8	756.5	684.5	540.6	432.7
125°	1383.3	1483.8	1383.3	1282.9	1257.7	1086.6	858.4	744.3	681.4	555.6	461.2
127.5°	1280.9	1365.7	1280.9	1196.2	1175.0	1028.1	832.1	734.1	679.6	570.5	488.8
130°	1220.6	1299.0	1220.6	1142.3	1122.8	991.9	817.5	730.3	680.7	581.6	507.2
132.5°	1165.9	1236.0	1165.9	1095.8	1078.3	961.2	805.0	726.9	681.4	590.5	522.2
135°	1090.9	1151.3	1090.9	1030.5	1015.4	917.3	786.6	721.1	680.7	600.1	539.6
137.5°	1030.7	1080.1	1030.7	981.2	968.8	885.9	775.3	720.1	685.0	614.6	561.9
140°	989.4	1035.7	989.4	943.2	931.6	860.0	764.5	716.7	685.7	623.5	576.9
142.5°	955.2	995.0	955.2	915.4	905.4	842.5	758.7	716.7	688.1	630.9	588.0
145°	904.0	934.1	904.0	873.9	866.3	814.8	746.2	711.9	688.1	640.6	604.9
147.5°	864.5	889.5	864.5	839.6	833.4	792.9	738.9	711.9	692.8	654.8	626.3
150°	839.8	860.0	839.8	819.6	814.5	780.3	734.7	711.9	695.3	662.2	637.4
152.5°	818.5	833.9	818.5	803.3	799.5	770.3	731.3	711.9	696.9	667.1	644.7
155°	794.2	804.3	794.2	784.1	781.6	758.3	727.4	711.9	700.5	677.7	660.6
157.5°	775.0	782.1	775.0	767.9	766.1	748.0	723.9	711.9	704.0	688.3	676.5
160°	763.5	767.6	763.5	759.4	758.3	742.8	722.2	711.9	705.6	693.2	683.8
162.5°	756.0	759.8	756.0	752.1	751.1	738.0	720.6	711.9	707.4	698.3	691.6
165°	745.1	749.2	745.1	740.9	739.9	730.6	718.1	711.9	709.8	705.8	702.7
167.5°	737.3	739.0	737.3	735.6	735.1	729.0	720.8	716.7	715.1	711.6	709.0
170°	735.1	735.1	735.1	735.1	735.1	729.0	720.8	716.7	716.6	716.5	716.3
172.5°	729.4	727.9	729.4	730.8	731.2	726.4	719.9	716.7	716.7	716.7	716.7
175°	725.9	725.9	725.9	725.9	725.9	722.8	718.8	716.7	717.7	719.6	721.1
177.5°	722.8	721.1	722.8	724.5	725.0	722.5	719.3	717.7	718.4	720.0	721.1
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-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°	12.6	8.7	4.9	8.7	12.6	13.6	21.3	31.6	36.7	32.6	24.5
92.5°	85.2	52.3	19.3	52.3	85.2	93.4	131.3	181.9	207.1	181.5	130.4
95°	166.9	106.6	46.5	106.6	166.9	182.0	323.1	511.3	605.4	540.3	410.0
97.5°	186.6	133.4	80.3	133.4	186.6	199.8	435.2	749.0	905.9	864.7	782.3
100°	202.8	154.7	106.5	154.7	202.8	214.9	476.0	824.2	998.4	1001.4	1007.4
102.5°	218.6	173.7	128.7	173.7	218.6	229.8	494.7	848.0	1024.5	1077.1	1182.0
105°	242.6	204.6	166.5	204.6	242.6	252.2	508.7	850.7	1021.6	1139.3	1374.6
107.5°	276.2	240.7	205.2	240.7	276.2	285.1	511.3	812.8	963.6	1127.7	1455.9
110°	295.4	263.4	231.3	263.4	295.4	303.4	507.4	779.3	915.2	1098.7	1465.6



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-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°	318.0	287.5	257.0	287.5	318.0	325.7	507.5	749.9	871.1	1058.9	1434.5
115°	352.1	323.9	295.6	323.9	352.1	359.1	512.2	716.3	818.3	999.2	1361.0
117.5°	385.2	359.6	334.0	359.6	385.2	391.5	521.8	695.3	782.1	945.3	1271.8
120°	404.4	380.3	356.2	380.3	404.4	410.4	529.5	688.2	767.6	916.8	1215.0
122.5°	426.6	402.3	378.0	402.3	426.6	432.7	540.6	684.5	756.5	890.8	1159.4
125°	455.7	433.5	411.4	433.5	455.7	461.2	555.6	681.4	744.3	858.4	1086.6
127.5°	483.1	460.8	438.5	460.8	483.1	488.8	570.5	679.6	734.1	832.1	1028.1
130°	501.2	477.1	453.0	477.1	501.2	507.2	581.6	680.7	730.3	817.5	991.9
132.5°	516.2	492.1	468.0	492.1	516.2	522.2	590.5	681.4	726.9	805.0	961.2
135°	534.1	512.2	490.3	512.2	534.1	539.6	600.1	680.7	721.1	786.6	917.3
137.5°	556.4	534.7	513.0	534.7	556.4	561.9	614.6	685.0	720.1	775.3	885.9
140°	571.9	551.9	531.8	551.9	571.9	576.9	623.5	685.7	716.7	764.5	860.0
142.5°	583.4	564.8	546.3	564.8	583.4	588.0	630.9	688.1	716.7	758.7	842.5
145°	600.9	584.8	568.7	584.8	600.9	604.9	640.6	688.1	711.9	746.2	814.8
147.5°	622.3	606.6	590.9	606.6	622.3	626.3	654.8	692.8	711.9	738.9	792.9
150°	633.8	619.6	605.4	619.6	633.8	637.4	662.2	695.3	711.9	734.7	780.3
152.5°	642.0	631.2	620.5	631.2	642.0	644.7	667.1	696.9	711.9	731.3	770.3
155°	658.6	650.6	642.7	650.6	658.6	660.6	677.7	700.5	711.9	727.4	758.3
157.5°	674.6	666.9	659.2	666.9	674.6	676.5	688.3	704.0	711.9	723.9	748.0
160°	682.3	676.3	670.3	676.3	682.3	683.8	693.2	705.6	711.9	722.2	742.8
162.5°	690.5	685.9	681.4	685.9	690.5	691.6	698.3	707.4	711.9	720.6	738.0
165°	701.7	697.6	693.5	697.6	701.7	702.7	705.8	709.8	711.9	718.1	730.6
167.5°	708.5	706.5	704.7	706.5	708.5	709.0	711.6	715.1	716.7	720.8	729.0
170°	715.8	713.8	711.9	713.8	715.8	716.3	716.5	716.6	716.7	720.8	729.0
172.5°	716.6	716.2	715.8	716.2	716.6	716.7	716.7	716.7	716.7	719.9	726.4
175°	721.1	721.1	721.1	721.1	721.1	721.1	719.6	717.7	716.7	718.8	722.8
177.5°	721.1	721.1	721.1	721.1	721.1	721.1	720.0	718.4	717.7	719.3	722.5
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-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°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6
92.5°	92.0	88.3	73.7	59.1	73.7	88.3	92.0	130.4	181.5	207.1	181.9
95°	312.2	301.1	256.8	212.5	256.8	301.1	312.2	410.0	540.3	605.4	511.3
97.5°	720.6	699.5	615.2	530.9	615.2	699.5	720.6	782.3	864.7	905.9	749.0
100°	1011.9	986.8	886.4	785.9	886.4	986.8	1011.9	1007.4	1001.4	998.4	824.2
102.5°	1260.7	1239.2	1153.1	1067.2	1153.1	1239.2	1260.7	1182.0	1077.1	1024.5	848.0
105°	1551.1	1539.5	1493.3	1447.0	1493.3	1539.5	1551.1	1374.6	1139.3	1021.6	850.7
107.5°	1702.0	1704.8	1716.0	1727.2	1716.0	1704.8	1702.0	1455.9	1127.7	963.6	812.8
110°	1740.8	1752.9	1801.0	1849.1	1801.0	1752.9	1740.8	1465.6	1098.7	915.2	779.3



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-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°	1716.1	1734.6	1808.6	1882.6	1808.6	1734.6	1716.1	1434.5	1058.9	871.1	749.9
115°	1632.4	1658.0	1760.6	1863.2	1760.6	1658.0	1632.4	1361.0	999.2	818.3	716.3
117.5°	1516.7	1545.1	1658.9	1772.7	1658.9	1545.1	1516.7	1271.8	945.3	782.1	695.3
120°	1438.8	1466.5	1576.9	1687.5	1576.9	1466.5	1438.8	1215.0	916.8	767.6	688.2
122.5°	1360.8	1388.1	1497.1	1606.2	1497.1	1388.1	1360.8	1159.4	890.8	756.5	684.5
125°	1257.7	1282.9	1383.3	1483.8	1383.3	1282.9	1257.7	1086.6	858.4	744.3	681.4
127.5°	1175.0	1196.2	1280.9	1365.7	1280.9	1196.2	1175.0	1028.1	832.1	734.1	679.6
130°	1122.8	1142.3	1220.6	1299.0	1220.6	1142.3	1122.8	991.9	817.5	730.3	680.7
132.5°	1078.3	1095.8	1165.9	1236.0	1165.9	1095.8	1078.3	961.2	805.0	726.9	681.4
135°	1015.4	1030.5	1090.9	1151.3	1090.9	1030.5	1015.4	917.3	786.6	721.1	680.7
137.5°	968.8	981.2	1030.7	1080.1	1030.7	981.2	968.8	885.9	775.3	720.1	685.0
140°	931.6	943.2	989.4	1035.7	989.4	943.2	931.6	860.0	764.5	716.7	685.7
142.5°	905.4	915.4	955.2	995.0	955.2	915.4	905.4	842.5	758.7	716.7	688.1
145°	866.3	873.9	904.0	934.1	904.0	873.9	866.3	814.8	746.2	711.9	688.1
147.5°	833.4	839.6	864.5	889.5	864.5	839.6	833.4	792.9	738.9	711.9	692.8
150°	814.5	819.6	839.8	860.0	839.8	819.6	814.5	780.3	734.7	711.9	695.3
152.5°	799.5	803.3	818.5	833.9	818.5	803.3	799.5	770.3	731.3	711.9	696.9
155°	781.6	784.1	794.2	804.3	794.2	784.1	781.6	758.3	727.4	711.9	700.5
157.5°	766.1	767.9	775.0	782.1	775.0	767.9	766.1	748.0	723.9	711.9	704.0
160°	758.3	759.4	763.5	767.6	763.5	759.4	758.3	742.8	722.2	711.9	705.6
162.5°	751.1	752.1	756.0	759.8	756.0	752.1	751.1	738.0	720.6	711.9	707.4
165°	739.9	740.9	745.1	749.2	745.1	740.9	739.9	730.6	718.1	711.9	709.8
167.5°	735.1	735.6	737.3	739.0	737.3	735.6	735.1	729.0	720.8	716.7	715.1
170°	735.1	735.1	735.1	735.1	735.1	735.1	735.1	729.0	720.8	716.7	716.6
172.5°	731.2	730.8	729.4	727.9	729.4	730.8	731.2	726.4	719.9	716.7	716.7
175°	725.9	725.9	725.9	725.9	725.9	725.9	725.9	722.8	718.8	716.7	717.7
177.5°	725.0	724.5	722.8	721.1	722.8	724.5	725.0	722.5	719.3	717.7	718.4
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-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°	21.3	13.6	12.6	8.7	4.9
92.5°	131.3	93.4	85.2	52.3	19.3
95°	323.1	182.0	166.9	106.6	46.5
97.5°	435.2	199.8	186.6	133.4	80.3
100°	476.0	214.9	202.8	154.7	106.5
102.5°	494.7	229.8	218.6	173.7	128.7
105°	508.7	252.2	242.6	204.6	166.5
107.5°	511.3	285.1	276.2	240.7	205.2
110°	507.4	303.4	295.4	263.4	231.3



TEST NUMBER: P935635

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	507.5	325.7	318.0	287.5	257.0
115°	512.2	359.1	352.1	323.9	295.6
117.5°	521.8	391.5	385.2	359.6	334.0
120°	529.5	410.4	404.4	380.3	356.2
122.5°	540.6	432.7	426.6	402.3	378.0
125°	555.6	461.2	455.7	433.5	411.4
127.5°	570.5	488.8	483.1	460.8	438.5
130°	581.6	507.2	501.2	477.1	453.0
132.5°	590.5	522.2	516.2	492.1	468.0
135°	600.1	539.6	534.1	512.2	490.3
137.5°	614.6	561.9	556.4	534.7	513.0
140°	623.5	576.9	571.9	551.9	531.8
142.5°	630.9	588.0	583.4	564.8	546.3
145°	640.6	604.9	600.9	584.8	568.7
147.5°	654.8	626.3	622.3	606.6	590.9
150°	662.2	637.4	633.8	619.6	605.4
152.5°	667.1	644.7	642.0	631.2	620.5
155°	677.7	660.6	658.6	650.6	642.7
157.5°	688.3	676.5	674.6	666.9	659.2
160°	693.2	683.8	682.3	676.3	670.3
162.5°	698.3	691.6	690.5	685.9	681.4
165°	705.8	702.7	701.7	697.6	693.5
167.5°	711.6	709.0	708.5	706.5	704.7
170°	716.5	716.3	715.8	713.8	711.9
172.5°	716.7	716.7	716.6	716.2	715.8
175°	719.6	721.1	721.1	721.1	721.1
177.5°	720.0	721.1	721.1	721.1	721.1
180°	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935635
 CATALOG NUMBER: SQ4-FA-125U-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	12.67	13.47	13.70	14.50	15.88	15.47	16.27	16.49	17.30	18.68
	3H	13.15	13.86	14.18	14.90	16.30	16.80	17.51	17.83	18.55	19.95
	4H	13.33	14.01	14.38	15.05	16.46	17.24	17.91	18.28	18.95	20.36
	6H	13.45	14.07	14.50	15.12	16.54	17.51	18.13	18.57	19.18	20.60
	8H	13.45	14.04	14.51	15.10	16.52	17.58	18.17	18.64	19.23	20.65
	12H	13.42	13.98	14.48	15.03	16.47	17.61	18.17	18.68	19.23	20.67
4H	2H	13.69	14.36	14.74	15.41	16.81	15.87	16.55	16.93	17.59	19.00
	3H	14.71	15.27	15.77	16.34	17.76	17.36	17.93	18.42	19.00	20.42
	4H	14.98	15.50	16.05	16.56	18.00	17.88	18.40	18.95	19.46	20.90
	6H	15.11	15.55	16.18	16.63	18.07	18.24	18.68	19.31	19.76	21.20
	8H	15.11	15.52	16.19	16.60	18.05	18.34	18.75	19.41	19.83	21.28
	12H	15.07	15.45	16.17	16.54	18.00	18.38	18.76	19.48	19.85	21.31
8H	4H	15.43	15.84	16.50	16.92	18.37	18.00	18.41	19.08	19.49	20.94
	6H	15.69	16.03	16.78	17.15	18.60	18.43	18.77	19.53	19.89	21.34
	8H	15.73	16.03	16.83	17.13	18.60	18.57	18.87	19.68	19.97	21.44
	12H	15.71	15.97	16.82	17.07	18.58	18.66	18.93	19.77	20.02	21.53
12H	4H	15.43	15.80	16.52	16.89	18.35	17.96	18.34	19.06	19.43	20.89
	6H	15.74	16.04	16.85	17.15	18.61	18.42	18.72	19.53	19.82	21.29
	8H	15.81	16.07	16.92	17.17	18.68	18.58	18.84	19.69	19.94	21.45