

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: P935235

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

Issue Date: 12/17/2024

**Test Information**

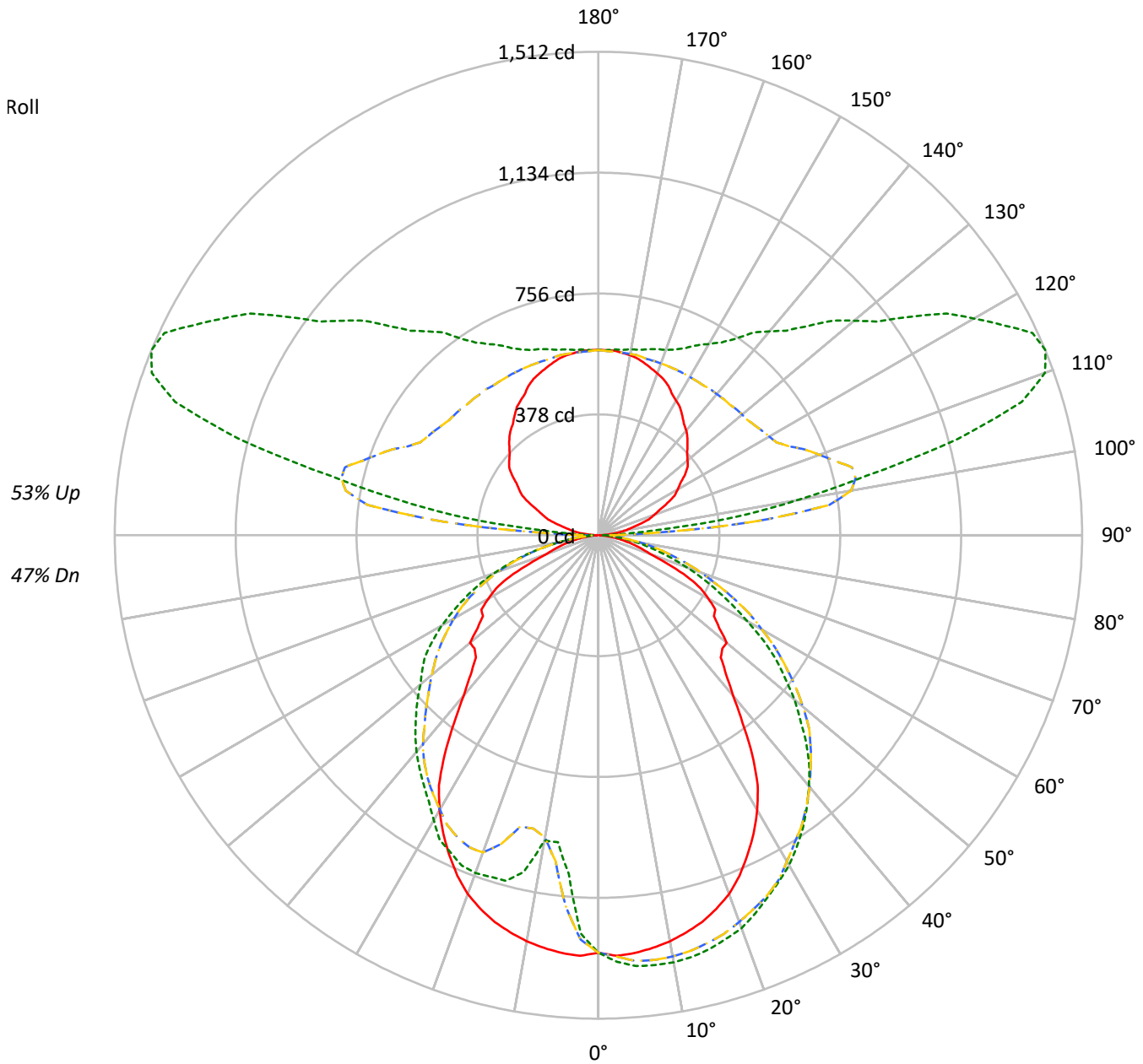
Test Method: LM-79-2019  
Report Number: P935235  
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7142.1 lumens  
Efficiency: N/A  
Efficacy: 123.1 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): 58  
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	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

**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	1.6
10°-20°	334.6	4.7
20°-30°	517.2	7.2
30°-40°	617.4	8.6
40°-50°	621.0	8.7
50°-60°	540.3	7.6
60°-70°	383.1	5.4
70°-80°	202.7	2.8
80°-90°	52.7	0.7
90°-100°	282.4	4.0
100°-110°	742.4	10.4
110°-120°	769.8	10.8
120°-130°	617.4	8.6
130°-140°	484.5	6.8
140°-150°	371.9	5.2
150°-160°	267.8	3.7
160°-170°	163.9	2.3
170°-180°	55.4	0.8
0°-30°	969.6	13.6
0°-40°	1586.9	22.2
0°-60°	2748.3	38.5
0°-90°	3386.8	47.4
90°-120°	1794.5	25.1
90°-150°	3268.3	45.8
90°-180°	3755.0	52.6
0°-180°	7142.1	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°	4	15	4	15	4	4
95°	37	171	37	171	37	41
105°	134	1162	134	1162	134	142
115°	238	1497	238	1497	238	235
125°	330	1192	330	1192	330	293
135°	394	925	394	925	394	305
145°	457	750	457	750	457	286
155°	516	646	516	646	516	237
165°	557	602	557	602	557	157
175°	579	583	579	583	579	55
180°	579	579	579	579	579	



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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°	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.3	19.7	14.8	14.8
92.5°	15.5	42.0	68.4	75.1	105.5	146.1	166.4	145.8	104.7	73.8	70.9
95°	37.3	85.7	134.1	146.2	259.6	410.7	486.3	434.0	329.3	250.8	241.9
97.5°	64.5	107.2	149.9	160.6	349.7	601.8	727.8	694.7	628.5	578.9	561.9
100°	85.5	124.2	162.9	172.6	382.5	662.2	802.1	804.5	809.3	812.9	792.7
102.5°	103.4	139.6	175.6	184.7	397.5	681.2	823.1	865.3	949.6	1012.8	995.5
105°	133.8	164.3	194.9	202.6	408.7	683.4	820.8	915.3	1104.3	1246.1	1236.8
107.5°	164.9	193.4	221.9	229.0	410.7	652.9	774.0	905.9	1169.6	1367.4	1369.6
110°	185.8	211.6	237.3	243.8	407.5	626.0	735.1	882.5	1177.4	1398.4	1408.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	206.5	231.0	255.5	261.6	407.7	602.4	699.8	850.7	1152.3	1378.6	1393.5
115°	237.5	260.1	282.7	288.5	411.5	575.5	657.5	802.8	1093.4	1311.4	1332.0
117.5°	268.3	288.8	309.4	314.5	419.1	558.6	628.3	759.4	1021.7	1218.5	1241.3
120°	286.1	305.5	324.8	329.7	425.3	552.9	616.6	736.5	976.1	1155.9	1178.1
122.5°	303.7	323.2	342.8	347.6	434.3	549.9	607.7	715.5	931.3	1093.2	1115.1
125°	330.5	348.3	366.0	370.5	446.3	547.4	597.9	689.6	872.9	1010.4	1030.6
127.5°	352.2	370.1	388.2	392.7	458.4	546.0	589.8	668.5	825.9	944.0	961.0
130°	363.9	383.2	402.6	407.4	467.2	546.9	586.7	656.8	796.9	902.0	917.7
132.5°	375.9	395.3	414.6	419.5	474.3	547.4	583.9	646.6	772.1	866.2	880.3
135°	393.9	411.5	429.1	433.5	482.1	546.9	579.3	631.9	736.8	815.6	827.8
137.5°	412.1	429.6	447.0	451.4	493.7	550.3	578.5	622.9	711.7	778.3	788.2
140°	427.3	443.3	459.4	463.4	500.9	550.8	575.8	614.1	690.8	748.4	757.7
142.5°	438.9	453.8	468.7	472.4	506.9	552.8	575.8	609.4	676.8	727.4	735.4
145°	456.8	469.8	482.7	486.0	514.6	552.9	571.9	599.5	654.6	695.9	702.0
147.5°	474.7	487.4	499.9	503.1	526.1	556.6	571.9	593.6	637.0	669.5	674.6
150°	486.3	497.7	509.1	512.0	532.0	558.7	571.9	590.3	626.8	654.3	658.3
152.5°	498.4	507.0	515.7	517.8	535.9	559.9	571.9	587.6	618.8	642.2	645.3
155°	516.3	522.7	529.1	530.7	544.5	562.8	571.9	584.4	609.2	627.8	629.9
157.5°	529.5	535.8	541.9	543.5	553.0	565.6	571.9	581.6	600.9	615.4	616.8
160°	538.5	543.3	548.1	549.3	556.9	566.9	571.9	580.3	596.8	609.2	610.1
162.5°	547.4	551.0	554.7	555.6	561.0	568.3	571.9	579.0	592.9	603.4	604.1
165°	557.1	560.4	563.6	564.5	567.0	570.3	571.9	577.0	587.0	594.5	595.3
167.5°	566.1	567.6	569.2	569.6	571.7	574.4	575.8	579.1	585.6	590.5	590.9
170°	571.9	573.4	575.0	575.4	575.5	575.7	575.8	579.1	585.6	590.5	590.5
172.5°	575.0	575.4	575.7	575.8	575.8	575.8	575.8	578.4	583.5	587.5	587.2
175°	579.3	579.3	579.3	579.3	578.1	576.5	575.8	577.5	580.7	583.2	583.2
177.5°	579.3	579.3	579.3	579.3	578.4	577.2	576.5	577.8	580.5	582.4	582.0
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



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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°	14.8	14.8	14.8	14.8	14.8	19.7	26.3	29.5	25.4	17.1	10.8
92.5°	59.2	47.4	59.2	70.9	73.8	104.7	145.8	166.4	146.1	105.5	75.1
95°	206.3	170.7	206.3	241.9	250.8	329.3	434.0	486.3	410.7	259.6	146.2
97.5°	494.2	426.5	494.2	561.9	578.9	628.5	694.7	727.8	601.8	349.7	160.6
100°	712.1	631.4	712.1	792.7	812.9	809.3	804.5	802.1	662.2	382.5	172.6
102.5°	926.4	857.3	926.4	995.5	1012.8	949.6	865.3	823.1	681.2	397.5	184.7
105°	1199.6	1162.5	1199.6	1236.8	1246.1	1104.3	915.3	820.8	683.4	408.7	202.6
107.5°	1378.6	1387.6	1378.6	1369.6	1367.4	1169.6	905.9	774.0	652.9	410.7	229.0
110°	1446.8	1485.5	1446.8	1408.1	1398.4	1177.4	882.5	735.1	626.0	407.5	243.8





TEST NUMBER: P935235

CATALOG NUMBER: SQ4-FA-100U-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°	1452.9	1512.4	1452.9	1393.5	1378.6	1152.3	850.7	699.8	602.4	407.7	261.6
115°	1414.4	1496.8	1414.4	1332.0	1311.4	1093.4	802.8	657.5	575.5	411.5	288.5
117.5°	1332.7	1424.1	1332.7	1241.3	1218.5	1021.7	759.4	628.3	558.6	419.1	314.5
120°	1266.9	1355.7	1266.9	1178.1	1155.9	976.1	736.5	616.6	552.9	425.3	329.7
122.5°	1202.8	1290.4	1202.8	1115.1	1093.2	931.3	715.5	607.7	549.9	434.3	347.6
125°	1111.3	1192.0	1111.3	1030.6	1010.4	872.9	689.6	597.9	547.4	446.3	370.5
127.5°	1029.1	1097.2	1029.1	961.0	944.0	825.9	668.5	589.8	546.0	458.4	392.7
130°	980.6	1043.5	980.6	917.7	902.0	796.9	656.8	586.7	546.9	467.2	407.4
132.5°	936.6	992.9	936.6	880.3	866.2	772.1	646.6	583.9	547.4	474.3	419.5
135°	876.3	924.9	876.3	827.8	815.6	736.8	631.9	579.3	546.9	482.1	433.5
137.5°	828.1	867.8	828.1	788.2	778.3	711.7	622.9	578.5	550.3	493.7	451.4
140°	794.9	832.0	794.9	757.7	748.4	690.8	614.1	575.8	550.8	500.9	463.4
142.5°	767.4	799.4	767.4	735.4	727.4	676.8	609.4	575.8	552.8	506.9	472.4
145°	726.2	750.4	726.2	702.0	695.9	654.6	599.5	571.9	552.9	514.6	486.0
147.5°	694.6	714.6	694.6	674.6	669.5	637.0	593.6	571.9	556.6	526.1	503.1
150°	674.6	690.8	674.6	658.3	654.3	626.8	590.3	571.9	558.7	532.0	512.0
152.5°	657.6	669.9	657.6	645.3	642.2	618.8	587.6	571.9	559.9	535.9	517.8
155°	638.0	646.2	638.0	629.9	627.8	609.2	584.4	571.9	562.8	544.5	530.7
157.5°	622.6	628.3	622.6	616.8	615.4	600.9	581.6	571.9	565.6	553.0	543.5
160°	613.4	616.6	613.4	610.1	609.2	596.8	580.3	571.9	566.9	556.9	549.3
162.5°	607.3	610.4	607.3	604.1	603.4	592.9	579.0	571.9	568.3	561.0	555.6
165°	598.6	601.9	598.6	595.3	594.5	587.0	577.0	571.9	570.3	567.0	564.5
167.5°	592.2	593.6	592.2	590.9	590.5	585.6	579.1	575.8	574.4	571.7	569.6
170°	590.5	590.5	590.5	590.5	590.5	585.6	579.1	575.8	575.7	575.5	575.4
172.5°	586.0	584.8	586.0	587.2	587.5	583.5	578.4	575.8	575.8	575.8	575.8
175°	583.2	583.2	583.2	583.2	583.2	580.7	577.5	575.8	576.5	578.1	579.3
177.5°	580.7	579.3	580.7	582.0	582.4	580.5	577.8	576.5	577.2	578.4	579.3
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



TEST NUMBER: P935235

CATALOG NUMBER: SQ4-FA-100U-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°	10.1	7.0	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.3	19.7
92.5°	68.4	42.0	15.5	42.0	68.4	75.1	105.5	146.1	166.4	145.8	104.7
95°	134.1	85.7	37.3	85.7	134.1	146.2	259.6	410.7	486.3	434.0	329.3
97.5°	149.9	107.2	64.5	107.2	149.9	160.6	349.7	601.8	727.8	694.7	628.5
100°	162.9	124.2	85.5	124.2	162.9	172.6	382.5	662.2	802.1	804.5	809.3
102.5°	175.6	139.6	103.4	139.6	175.6	184.7	397.5	681.2	823.1	865.3	949.6
105°	194.9	164.3	133.8	164.3	194.9	202.6	408.7	683.4	820.8	915.3	1104.3
107.5°	221.9	193.4	164.9	193.4	221.9	229.0	410.7	652.9	774.0	905.9	1169.6
110°	237.3	211.6	185.8	211.6	237.3	243.8	407.5	626.0	735.1	882.5	1177.4



TEST NUMBER: P935235

CATALOG NUMBER: SQ4-FA-100U-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°	255.5	231.0	206.5	231.0	255.5	261.6	407.7	602.4	699.8	850.7	1152.3
115°	282.7	260.1	237.5	260.1	282.7	288.5	411.5	575.5	657.5	802.8	1093.4
117.5°	309.4	288.8	268.3	288.8	309.4	314.5	419.1	558.6	628.3	759.4	1021.7
120°	324.8	305.5	286.1	305.5	324.8	329.7	425.3	552.9	616.6	736.5	976.1
122.5°	342.8	323.2	303.7	323.2	342.8	347.6	434.3	549.9	607.7	715.5	931.3
125°	366.0	348.3	330.5	348.3	366.0	370.5	446.3	547.4	597.9	689.6	872.9
127.5°	388.2	370.1	352.2	370.1	388.2	392.7	458.4	546.0	589.8	668.5	825.9
130°	402.6	383.2	363.9	383.2	402.6	407.4	467.2	546.9	586.7	656.8	796.9
132.5°	414.6	395.3	375.9	395.3	414.6	419.5	474.3	547.4	583.9	646.6	772.1
135°	429.1	411.5	393.9	411.5	429.1	433.5	482.1	546.9	579.3	631.9	736.8
137.5°	447.0	429.6	412.1	429.6	447.0	451.4	493.7	550.3	578.5	622.9	711.7
140°	459.4	443.3	427.3	443.3	459.4	463.4	500.9	550.8	575.8	614.1	690.8
142.5°	468.7	453.8	438.9	453.8	468.7	472.4	506.9	552.8	575.8	609.4	676.8
145°	482.7	469.8	456.8	469.8	482.7	486.0	514.6	552.9	571.9	599.5	654.6
147.5°	499.9	487.4	474.7	487.4	499.9	503.1	526.1	556.6	571.9	593.6	637.0
150°	509.1	497.7	486.3	497.7	509.1	512.0	532.0	558.7	571.9	590.3	626.8
152.5°	515.7	507.0	498.4	507.0	515.7	517.8	535.9	559.9	571.9	587.6	618.8
155°	529.1	522.7	516.3	522.7	529.1	530.7	544.5	562.8	571.9	584.4	609.2
157.5°	541.9	535.8	529.5	535.8	541.9	543.5	553.0	565.6	571.9	581.6	600.9
160°	548.1	543.3	538.5	543.3	548.1	549.3	556.9	566.9	571.9	580.3	596.8
162.5°	554.7	551.0	547.4	551.0	554.7	555.6	561.0	568.3	571.9	579.0	592.9
165°	563.6	560.4	557.1	560.4	563.6	564.5	567.0	570.3	571.9	577.0	587.0
167.5°	569.2	567.6	566.1	567.6	569.2	569.6	571.7	574.4	575.8	579.1	585.6
170°	575.0	573.4	571.9	573.4	575.0	575.4	575.5	575.7	575.8	579.1	585.6
172.5°	575.7	575.4	575.0	575.4	575.7	575.8	575.8	575.8	575.8	578.4	583.5
175°	579.3	579.3	579.3	579.3	579.3	579.3	578.1	576.5	575.8	577.5	580.7
177.5°	579.3	579.3	579.3	579.3	579.3	579.3	578.4	577.2	576.5	577.8	580.5
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



TEST NUMBER: P935235

CATALOG NUMBER: SQ4-FA-100U-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°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	19.7	26.3	29.5	25.4
92.5°	73.8	70.9	59.2	47.4	59.2	70.9	73.8	104.7	145.8	166.4	146.1
95°	250.8	241.9	206.3	170.7	206.3	241.9	250.8	329.3	434.0	486.3	410.7
97.5°	578.9	561.9	494.2	426.5	494.2	561.9	578.9	628.5	694.7	727.8	601.8
100°	812.9	792.7	712.1	631.4	712.1	792.7	812.9	809.3	804.5	802.1	662.2
102.5°	1012.8	995.5	926.4	857.3	926.4	995.5	1012.8	949.6	865.3	823.1	681.2
105°	1246.1	1236.8	1199.6	1162.5	1199.6	1236.8	1246.1	1104.3	915.3	820.8	683.4
107.5°	1367.4	1369.6	1378.6	1387.6	1378.6	1369.6	1367.4	1169.6	905.9	774.0	652.9
110°	1398.4	1408.1	1446.8	1485.5	1446.8	1408.1	1398.4	1177.4	882.5	735.1	626.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1378.6	1393.5	1452.9	1512.4	1452.9	1393.5	1378.6	1152.3	850.7	699.8	602.4
115°	1311.4	1332.0	1414.4	1496.8	1414.4	1332.0	1311.4	1093.4	802.8	657.5	575.5
117.5°	1218.5	1241.3	1332.7	1424.1	1332.7	1241.3	1218.5	1021.7	759.4	628.3	558.6
120°	1155.9	1178.1	1266.9	1355.7	1266.9	1178.1	1155.9	976.1	736.5	616.6	552.9
122.5°	1093.2	1115.1	1202.8	1290.4	1202.8	1115.1	1093.2	931.3	715.5	607.7	549.9
125°	1010.4	1030.6	1111.3	1192.0	1111.3	1030.6	1010.4	872.9	689.6	597.9	547.4
127.5°	944.0	961.0	1029.1	1097.2	1029.1	961.0	944.0	825.9	668.5	589.8	546.0
130°	902.0	917.7	980.6	1043.5	980.6	917.7	902.0	796.9	656.8	586.7	546.9
132.5°	866.2	880.3	936.6	992.9	936.6	880.3	866.2	772.1	646.6	583.9	547.4
135°	815.6	827.8	876.3	924.9	876.3	827.8	815.6	736.8	631.9	579.3	546.9
137.5°	778.3	788.2	828.1	867.8	828.1	788.2	778.3	711.7	622.9	578.5	550.3
140°	748.4	757.7	794.9	832.0	794.9	757.7	748.4	690.8	614.1	575.8	550.8
142.5°	727.4	735.4	767.4	799.4	767.4	735.4	727.4	676.8	609.4	575.8	552.8
145°	695.9	702.0	726.2	750.4	726.2	702.0	695.9	654.6	599.5	571.9	552.9
147.5°	669.5	674.6	694.6	714.6	694.6	674.6	669.5	637.0	593.6	571.9	556.6
150°	654.3	658.3	674.6	690.8	674.6	658.3	654.3	626.8	590.3	571.9	558.7
152.5°	642.2	645.3	657.6	669.9	657.6	645.3	642.2	618.8	587.6	571.9	559.9
155°	627.8	629.9	638.0	646.2	638.0	629.9	627.8	609.2	584.4	571.9	562.8
157.5°	615.4	616.8	622.6	628.3	622.6	616.8	615.4	600.9	581.6	571.9	565.6
160°	609.2	610.1	613.4	616.6	613.4	610.1	609.2	596.8	580.3	571.9	566.9
162.5°	603.4	604.1	607.3	610.4	607.3	604.1	603.4	592.9	579.0	571.9	568.3
165°	594.5	595.3	598.6	601.9	598.6	595.3	594.5	587.0	577.0	571.9	570.3
167.5°	590.5	590.9	592.2	593.6	592.2	590.9	590.5	585.6	579.1	575.8	574.4
170°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	585.6	579.1	575.8	575.7
172.5°	587.5	587.2	586.0	584.8	586.0	587.2	587.5	583.5	578.4	575.8	575.8
175°	583.2	583.2	583.2	583.2	583.2	583.2	583.2	580.7	577.5	575.8	576.5
177.5°	582.4	582.0	580.7	579.3	580.7	582.0	582.4	580.5	577.8	576.5	577.2
180°	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3



TEST NUMBER: P935235

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**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°	17.1	10.8	10.1	7.0	3.9
92.5°	105.5	75.1	68.4	42.0	15.5
95°	259.6	146.2	134.1	85.7	37.3
97.5°	349.7	160.6	149.9	107.2	64.5
100°	382.5	172.6	162.9	124.2	85.5
102.5°	397.5	184.7	175.6	139.6	103.4
105°	408.7	202.6	194.9	164.3	133.8
107.5°	410.7	229.0	221.9	193.4	164.9
110°	407.5	243.8	237.3	211.6	185.8



TEST NUMBER: P935235

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

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	407.7	261.6	255.5	231.0	206.5
115°	411.5	288.5	282.7	260.1	237.5
117.5°	419.1	314.5	309.4	288.8	268.3
120°	425.3	329.7	324.8	305.5	286.1
122.5°	434.3	347.6	342.8	323.2	303.7
125°	446.3	370.5	366.0	348.3	330.5
127.5°	458.4	392.7	388.2	370.1	352.2
130°	467.2	407.4	402.6	383.2	363.9
132.5°	474.3	419.5	414.6	395.3	375.9
135°	482.1	433.5	429.1	411.5	393.9
137.5°	493.7	451.4	447.0	429.6	412.1
140°	500.9	463.4	459.4	443.3	427.3
142.5°	506.9	472.4	468.7	453.8	438.9
145°	514.6	486.0	482.7	469.8	456.8
147.5°	526.1	503.1	499.9	487.4	474.7
150°	532.0	512.0	509.1	497.7	486.3
152.5°	535.9	517.8	515.7	507.0	498.4
155°	544.5	530.7	529.1	522.7	516.3
157.5°	553.0	543.5	541.9	535.8	529.5
160°	556.9	549.3	548.1	543.3	538.5
162.5°	561.0	555.6	554.7	551.0	547.4
165°	567.0	564.5	563.6	560.4	557.1
167.5°	571.7	569.6	569.2	567.6	566.1
170°	575.5	575.4	575.0	573.4	571.9
172.5°	575.8	575.8	575.7	575.4	575.0
175°	578.1	579.3	579.3	579.3	579.3
177.5°	578.4	579.3	579.3	579.3	579.3
180°	579.3	579.3	579.3	579.3	579.3



TEST NUMBER: P935235  
 CATALOG NUMBER: SQ4-FA-100U-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	13.22	14.05	14.19	15.05	16.35	16.01	16.85	16.99	17.84	19.15
	3H	13.69	14.44	14.68	15.44	16.77	17.35	18.10	18.34	19.10	20.43
	4H	13.88	14.59	14.88	15.60	16.93	17.78	18.50	18.79	19.50	20.84
	6H	14.00	14.65	15.01	15.66	17.01	18.06	18.72	19.07	19.72	21.07
	8H	14.00	14.62	15.02	15.65	17.00	18.13	18.75	19.15	19.78	21.13
	12H	13.97	14.56	15.00	15.58	16.95	18.16	18.76	19.19	19.78	21.15
4H	2H	14.24	14.95	15.25	15.95	17.29	16.42	17.13	17.43	18.14	19.47
	3H	15.26	15.86	16.28	16.89	18.24	17.92	18.51	18.93	19.54	20.89
	4H	15.54	16.08	16.56	17.11	18.48	18.44	18.98	19.46	20.00	21.38
	6H	15.66	16.13	16.70	17.18	18.55	18.79	19.26	19.83	20.31	21.68
	8H	15.67	16.10	16.71	17.14	18.53	18.89	19.33	19.93	20.37	21.76
	12H	15.63	16.03	16.69	17.08	18.47	18.94	19.34	20.00	20.39	21.79
8H	4H	15.98	16.42	17.02	17.46	18.85	18.56	19.00	19.60	20.04	21.42
	6H	16.25	16.61	17.31	17.69	19.07	18.99	19.35	20.05	20.43	21.81
	8H	16.29	16.60	17.36	17.67	19.07	19.13	19.45	20.20	20.52	21.92
	12H	16.27	16.55	17.34	17.61	19.06	19.23	19.50	20.30	20.57	22.01
12H	4H	15.99	16.38	17.04	17.44	18.83	18.52	18.92	19.58	19.97	21.36
	6H	16.30	16.62	17.37	17.69	19.09	18.98	19.30	20.05	20.37	21.77
	8H	16.37	16.65	17.44	17.71	19.15	19.14	19.42	20.21	20.48	21.92