

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: P935633

Luminaire Tested: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935633
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

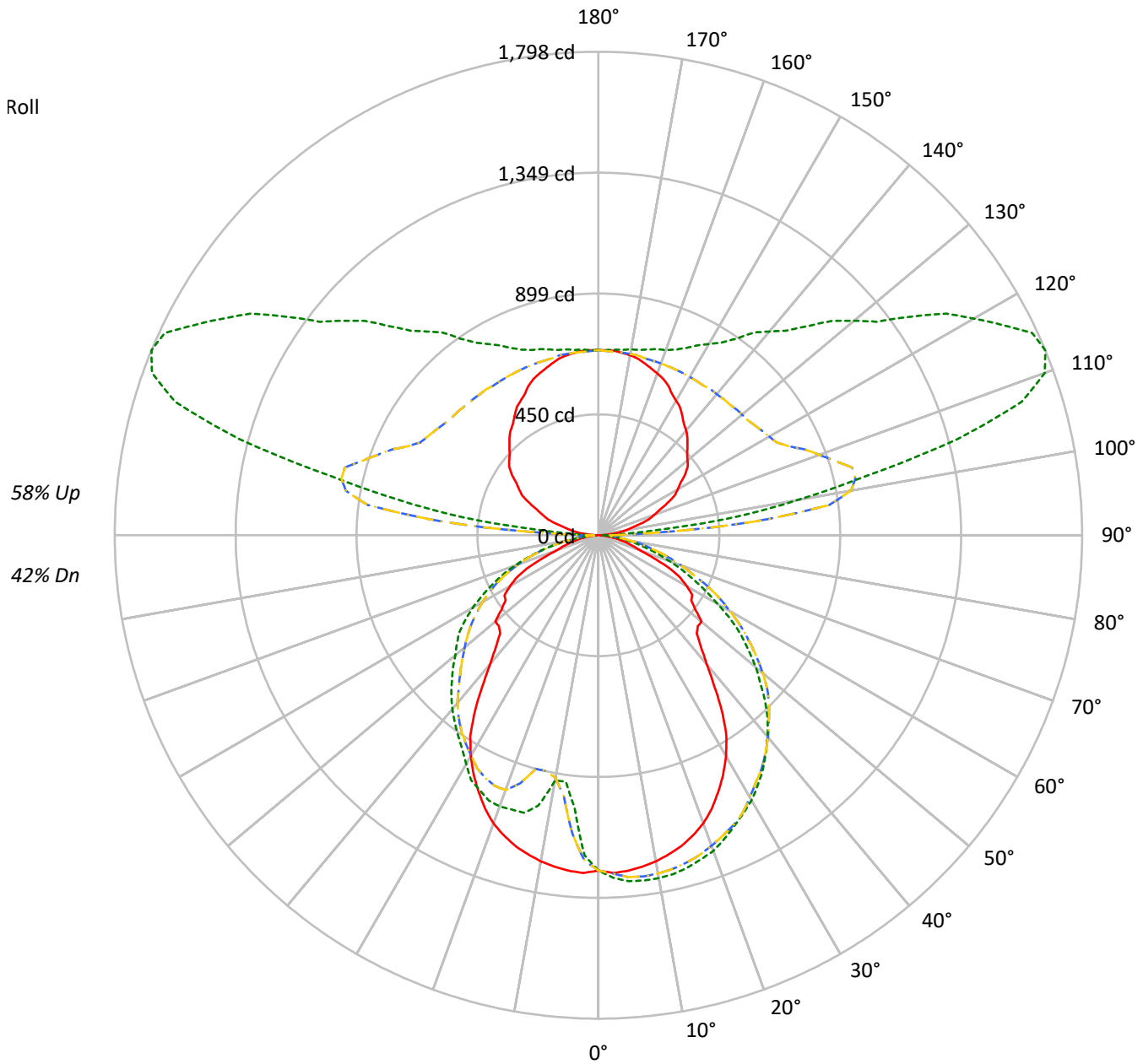
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7698.9 lumens
Efficiency: N/A
Efficacy: 119.5 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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CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11567	11567	11567	11567
5°	11641	11677	11641	9181
10°	11551	11502	11551	8223
15°	11411	11253	11411	9396
20°	11160	10958	11160	9416
25°	10659	10527	10659	9216
30°	10015	10170	10015	8778
35°	8915	9718	8915	8297
40°	7416	9185	7416	7933
45°	6614	8562	6614	7516
50°	7009	7820	7009	7095
55°	6576	7019	6576	6853
60°	6754	5961	6754	6275
65°	6095	4927	6095	5508
70°	4191	3927	4191	4617
75°	3637	2902	3637	3476
80°	2869	1918	2869	2090
85°	1557	1015	1557	864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.5
10°-20°	319.5	4.1
20°-30°	493.9	6.4
30°-40°	589.6	7.7
40°-50°	593.0	7.7
50°-60°	516.0	6.7
60°-70°	365.9	4.8
70°-80°	193.6	2.5
80°-90°	50.8	0.7
90°-100°	335.7	4.4
100°-110°	882.5	11.5
110°-120°	915.0	11.9
120°-130°	734.0	9.5
130°-140°	575.9	7.5
140°-150°	442.0	5.7
150°-160°	318.3	4.1
160°-170°	194.8	2.5
170°-180°	65.8	0.9
0°-30°	925.9	12.0
0°-40°	1515.5	19.7
0°-60°	2624.5	34.1
0°-90°	3234.8	42.0
90°-120°	2133.2	27.7
90°-150°	3885.1	50.5
90°-180°	4464.0	58.0
0°-180°	7698.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1246	1246	1246	1246	1246	
5°	1252	1291	1252	1015	1252	119
15°	1196	1280	1196	1068	1196	336
25°	1053	1194	1053	1045	1053	484
35°	801	1065	801	909	801	495
45°	517	877	517	770	517	414
55°	421	648	421	632	421	387
65°	292	390	292	436	292	280
75°	111	185	111	222	111	117
85°	19	47	19	40	19	25
90°	5	18	5	18	5	5
95°	44	203	44	203	44	49
105°	159	1382	159	1382	159	169
115°	282	1779	282	1779	282	279
125°	393	1417	393	1417	393	349
135°	468	1099	468	1099	468	362
145°	543	892	543	892	543	340
155°	614	768	614	768	614	282
165°	662	715	662	715	662	187
175°	689	693	689	693	689	65
180°	689	689	689	689	689	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1257.2	1257.2	1264.3	1266.6	1266.6	1263.1	1259.6	1263.1	1273.7	1277.2	1276.1
5°	1252.5	1261.9	1274.9	1277.2	1279.6	1278.4	1276.1	1278.4	1290.2	1292.6	1293.8
7.5°	1243.1	1260.7	1277.2	1280.8	1284.3	1280.8	1279.6	1282.0	1293.8	1296.1	1296.1
10°	1231.3	1256.0	1274.9	1277.2	1280.8	1277.2	1277.2	1282.0	1293.8	1296.1	1297.3
12.5°	1214.8	1249.0	1266.6	1269.0	1273.7	1272.5	1271.4	1276.1	1287.9	1290.2	1290.2
15°	1195.8	1236.0	1252.5	1254.8	1263.1	1260.7	1260.7	1265.5	1278.4	1282.0	1280.8
17.5°	1170.0	1219.5	1238.3	1241.9	1247.8	1246.5	1247.8	1252.5	1264.3	1266.6	1267.8
20°	1140.4	1197.1	1219.5	1223.0	1228.9	1228.9	1228.9	1234.8	1246.5	1251.3	1251.3
22.5°	1100.3	1173.4	1197.1	1199.4	1206.5	1206.5	1208.9	1217.1	1227.7	1228.9	1228.9
25°	1053.2	1147.6	1167.5	1174.7	1181.7	1185.2	1188.8	1193.5	1197.1	1195.8	1197.1
27.5°	1003.7	1114.5	1140.4	1145.1	1154.6	1158.2	1162.8	1164.1	1165.2	1168.7	1166.4
30°	948.2	1068.5	1107.4	1112.1	1127.5	1129.8	1125.1	1127.5	1133.4	1135.8	1138.1
32.5°	885.7	1000.1	1073.2	1083.8	1098.0	1090.9	1089.7	1093.3	1102.7	1102.7	1105.1
35°	800.8	947.1	1041.4	1050.8	1061.4	1053.2	1057.8	1059.1	1065.0	1068.5	1067.3
37.5°	707.6	901.0	1008.4	1015.4	1023.7	1013.0	1020.2	1023.7	1028.4	1026.1	1026.1
40°	625.1	829.1	969.5	974.1	981.3	973.0	980.0	982.4	984.7	982.4	981.3
42.5°	563.8	750.1	928.1	934.0	929.3	935.2	937.6	942.3	938.8	934.0	934.0
45°	516.6	728.8	883.3	890.4	883.3	892.8	896.3	896.3	885.7	883.3	882.2
47.5°	501.2	686.4	838.5	838.5	835.0	846.7	852.7	844.4	833.8	830.3	830.3
50°	500.0	639.2	777.2	772.5	789.0	803.2	797.3	789.0	780.8	767.7	767.7
52.5°	454.1	581.5	698.2	715.9	741.9	750.1	740.6	732.4	718.2	712.3	707.6
55°	421.0	521.3	626.3	661.6	688.7	699.4	681.7	673.4	652.1	648.7	646.3
57.5°	414.0	434.0	560.2	605.0	638.0	636.9	626.3	610.9	593.2	589.7	588.5
60°	379.7	313.7	489.4	542.5	576.7	573.2	563.8	549.6	533.1	530.8	528.3
62.5°	344.4	227.6	409.3	469.4	517.7	516.6	508.3	487.1	475.3	469.4	464.7
65°	292.5	191.0	291.3	390.3	460.0	462.3	444.6	429.3	416.3	409.3	408.0
67.5°	222.9	155.7	196.9	325.5	404.5	402.1	379.7	372.7	356.2	352.6	345.5
70°	165.1	103.8	136.8	264.2	350.3	344.4	326.7	318.4	303.1	294.8	290.1
72.5°	136.8	83.7	100.2	205.2	294.8	287.8	272.4	263.0	250.0	243.0	238.2
75°	110.9	88.5	76.7	152.1	239.4	234.7	220.6	211.1	200.5	191.0	192.3
77.5°	81.4	82.6	61.3	112.0	189.9	182.8	174.5	162.7	158.0	148.6	148.6
80°	61.3	64.9	46.0	76.7	136.8	136.8	129.7	121.5	113.2	108.5	108.5
82.5°	41.2	41.2	34.2	48.4	93.2	89.6	84.9	82.6	77.8	75.5	75.5
85°	18.8	23.6	21.2	29.5	50.7	53.1	53.1	50.7	49.5	47.1	48.4
87.5°	5.9	10.6	12.9	16.5	26.0	27.1	28.3	28.3	28.3	29.5	29.5
90°	4.6	8.3	12.1	12.9	20.4	30.2	35.1	31.2	23.4	17.6	17.6
92.5°	18.5	49.9	81.3	89.2	125.4	173.7	197.8	173.3	124.5	87.8	84.4
95°	44.4	101.8	159.4	173.8	308.6	488.3	578.1	515.9	391.5	298.1	287.5
97.5°	76.7	127.4	178.2	190.8	415.6	715.3	865.1	825.8	747.1	688.1	668.0
100°	101.7	147.7	193.7	205.2	454.6	787.1	953.4	956.3	962.1	966.4	942.3
102.5°	122.9	165.8	208.8	219.5	472.5	809.8	978.4	1028.6	1128.8	1204.0	1183.4
105°	159.0	195.4	231.7	240.8	485.8	812.4	975.6	1088.0	1312.7	1481.2	1470.1
107.5°	195.9	229.8	263.8	272.2	488.3	776.2	920.2	1076.9	1390.3	1625.4	1628.0
110°	220.9	251.5	282.1	289.7	484.5	744.2	874.0	1049.2	1399.6	1662.4	1673.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	245.4	274.6	303.7	311.0	484.6	716.1	831.9	1011.2	1369.9	1638.9	1656.5
115°	282.3	309.3	336.2	342.9	489.2	684.0	781.5	954.2	1299.7	1558.9	1583.3
117.5°	318.9	343.4	367.8	373.9	498.3	664.0	746.9	902.7	1214.5	1448.4	1475.5
120°	340.2	363.2	386.2	391.9	505.7	657.2	733.0	875.5	1160.3	1374.0	1400.4
122.5°	361.0	384.2	407.4	413.2	516.3	653.7	722.4	850.7	1107.2	1299.6	1325.6
125°	392.8	414.0	435.2	440.4	530.6	650.7	710.8	819.8	1037.7	1201.1	1225.1
127.5°	418.7	440.1	461.4	466.8	544.9	649.0	701.1	794.6	981.8	1122.1	1142.4
130°	432.6	455.6	478.6	484.3	555.4	650.1	697.4	780.7	947.2	1072.2	1090.9
132.5°	446.9	470.0	493.0	498.7	563.9	650.7	694.2	768.7	917.9	1029.7	1046.4
135°	468.2	489.2	510.0	515.3	573.1	650.1	688.7	751.1	876.0	969.7	984.1
137.5°	489.9	510.6	531.4	536.6	586.9	654.1	687.7	740.4	846.0	925.2	937.0
140°	507.9	527.0	546.1	550.9	595.5	654.8	684.5	730.1	821.3	889.7	900.7
142.5°	521.7	539.4	557.1	561.5	602.5	657.1	684.5	724.5	804.6	864.7	874.1
145°	543.1	558.4	573.9	577.7	611.7	657.1	679.8	712.6	778.1	827.3	834.5
147.5°	564.3	579.3	594.3	598.1	625.3	661.6	679.8	705.6	757.2	795.9	801.8
150°	578.1	591.7	605.3	608.7	632.4	664.0	679.8	701.6	745.2	777.8	782.6
152.5°	592.5	602.8	613.1	615.6	637.1	665.5	679.8	698.4	735.6	763.5	767.1
155°	613.8	621.4	628.9	630.8	647.1	668.9	679.8	694.6	724.2	746.4	748.8
157.5°	629.5	636.9	644.2	646.1	657.3	672.3	679.8	691.3	714.4	731.6	733.3
160°	640.1	645.8	651.6	653.0	662.0	673.8	679.8	689.6	709.4	724.2	725.2
162.5°	650.7	655.0	659.4	660.4	666.9	675.5	679.8	688.1	704.8	717.3	718.2
165°	662.2	666.2	670.1	671.1	674.0	677.9	679.8	685.8	697.7	706.6	707.6
167.5°	672.9	674.7	676.6	677.1	679.6	682.9	684.5	688.4	696.2	702.0	702.5
170°	679.8	681.7	683.6	684.0	684.2	684.4	684.5	688.4	696.2	702.0	702.0
172.5°	683.6	683.9	684.4	684.5	684.5	684.5	684.5	687.5	693.7	698.3	697.9
175°	688.7	688.7	688.7	688.7	687.2	685.4	684.5	686.4	690.3	693.2	693.2
177.5°	688.7	688.7	688.7	688.7	687.6	686.1	685.4	686.9	690.0	692.3	691.9
180°	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1278.4	1274.9	1278.4	1276.1	1277.2	1273.7	1263.1	1259.6	1263.1	1266.6	1266.6
5°	1293.8	1291.4	1293.8	1293.8	1292.6	1290.2	1278.4	1276.1	1278.4	1279.6	1277.2
7.5°	1298.5	1294.9	1298.5	1296.1	1296.1	1293.8	1282.0	1279.6	1280.8	1284.3	1280.8
10°	1298.5	1294.9	1298.5	1297.3	1296.1	1293.8	1282.0	1277.2	1277.2	1280.8	1277.2
12.5°	1292.6	1290.2	1292.6	1290.2	1290.2	1287.9	1276.1	1271.4	1272.5	1273.7	1269.0
15°	1283.1	1279.6	1283.1	1280.8	1282.0	1278.4	1265.5	1260.7	1260.7	1263.1	1254.8
17.5°	1269.0	1264.3	1269.0	1267.8	1266.6	1264.3	1252.5	1247.8	1246.5	1247.8	1241.9
20°	1252.5	1249.0	1252.5	1251.3	1251.3	1246.5	1234.8	1228.9	1228.9	1228.9	1223.0
22.5°	1226.5	1223.0	1226.5	1228.9	1228.9	1227.7	1217.1	1208.9	1206.5	1206.5	1199.4
25°	1197.1	1193.5	1197.1	1197.1	1195.8	1197.1	1193.5	1188.8	1185.2	1181.7	1174.7
27.5°	1168.7	1166.4	1168.7	1166.4	1168.7	1165.2	1164.1	1162.8	1158.2	1154.6	1145.1
30°	1140.4	1138.1	1140.4	1138.1	1135.8	1133.4	1127.5	1125.1	1129.8	1127.5	1112.1
32.5°	1105.1	1102.7	1105.1	1105.1	1102.7	1102.7	1093.3	1089.7	1090.9	1098.0	1083.8
35°	1068.5	1065.0	1068.5	1067.3	1068.5	1065.0	1059.1	1057.8	1053.2	1061.4	1050.8
37.5°	1026.1	1022.5	1026.1	1026.1	1026.1	1028.4	1023.7	1020.2	1013.0	1023.7	1015.4
40°	982.4	977.7	982.4	981.3	982.4	984.7	982.4	980.0	973.0	981.3	974.1
42.5°	932.9	931.7	932.9	934.0	934.0	938.8	942.3	937.6	935.2	929.3	934.0
45°	879.8	877.4	879.8	882.2	883.3	885.7	896.3	896.3	892.8	883.3	890.4
47.5°	823.2	817.3	823.2	830.3	830.3	833.8	844.4	852.7	846.7	835.0	838.5
50°	763.0	764.3	763.0	767.7	767.7	780.8	789.0	797.3	803.2	789.0	772.5
52.5°	704.1	702.9	704.1	707.6	712.3	718.2	732.4	740.6	750.1	741.9	715.9
55°	645.1	647.5	645.1	646.3	648.7	652.1	673.4	681.7	699.4	688.7	661.6
57.5°	586.2	582.6	586.2	588.5	589.7	593.2	610.9	626.3	636.9	638.0	605.0
60°	517.7	513.0	517.7	528.3	530.8	533.1	549.6	563.8	573.2	576.7	542.5
62.5°	457.6	449.3	457.6	464.7	469.4	475.3	487.1	508.3	516.6	517.7	469.4
65°	393.9	390.3	393.9	408.0	409.3	416.3	429.3	444.6	462.3	460.0	390.3
67.5°	336.2	336.2	336.2	345.5	352.6	356.2	372.7	379.7	402.1	404.5	325.5
70°	283.0	281.9	283.0	290.1	294.8	303.1	318.4	326.7	344.4	350.3	264.2
72.5°	232.3	231.2	232.3	238.2	243.0	250.0	263.0	272.4	287.8	294.8	205.2
75°	187.5	185.1	187.5	192.3	191.0	200.5	211.1	220.6	234.7	239.4	152.1
77.5°	143.9	143.9	143.9	148.6	148.6	158.0	162.7	174.5	182.8	189.9	112.0
80°	107.3	106.1	107.3	108.5	108.5	113.2	121.5	129.7	136.8	136.8	76.7
82.5°	75.5	73.1	75.5	75.5	75.5	77.8	82.6	84.9	89.6	93.2	48.4
85°	47.1	47.1	47.1	48.4	47.1	49.5	50.7	53.1	53.1	50.7	29.5
87.5°	30.7	29.5	30.7	29.5	29.5	28.3	28.3	28.3	27.1	26.0	16.5
90°	17.6	17.6	17.6	17.6	17.6	23.4	31.2	35.1	30.2	20.4	12.9
92.5°	70.3	56.4	70.3	84.4	87.8	124.5	173.3	197.8	173.7	125.4	89.2
95°	245.2	202.9	245.2	287.5	298.1	391.5	515.9	578.1	488.3	308.6	173.8
97.5°	587.5	507.0	587.5	668.0	688.1	747.1	825.8	865.1	715.3	415.6	190.8
100°	846.5	750.5	846.5	942.3	966.4	962.1	956.3	953.4	787.1	454.6	205.2
102.5°	1101.2	1019.1	1101.2	1183.4	1204.0	1128.8	1028.6	978.4	809.8	472.5	219.5
105°	1426.0	1381.9	1426.0	1470.1	1481.2	1312.7	1088.0	975.6	812.4	485.8	240.8
107.5°	1638.8	1649.5	1638.8	1628.0	1625.4	1390.3	1076.9	920.2	776.2	488.3	272.2
110°	1719.9	1765.9	1719.9	1673.9	1662.4	1399.6	1049.2	874.0	744.2	484.5	289.7



TEST NUMBER: P935633

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1727.1	1797.8	1727.1	1656.5	1638.9	1369.9	1011.2	831.9	716.1	484.6	311.0
115°	1681.3	1779.3	1681.3	1583.3	1558.9	1299.7	954.2	781.5	684.0	489.2	342.9
117.5°	1584.2	1692.9	1584.2	1475.5	1448.4	1214.5	902.7	746.9	664.0	498.3	373.9
120°	1505.9	1611.5	1505.9	1400.4	1374.0	1160.3	875.5	733.0	657.2	505.7	391.9
122.5°	1429.7	1533.9	1429.7	1325.6	1299.6	1107.2	850.7	722.4	653.7	516.3	413.2
125°	1321.0	1416.9	1321.0	1225.1	1201.1	1037.7	819.8	710.8	650.7	530.6	440.4
127.5°	1223.2	1304.2	1223.2	1142.4	1122.1	981.8	794.6	701.1	649.0	544.9	466.8
130°	1165.7	1240.5	1165.7	1090.9	1072.2	947.2	780.7	697.4	650.1	555.4	484.3
132.5°	1113.4	1180.3	1113.4	1046.4	1029.7	917.9	768.7	694.2	650.7	563.9	498.7
135°	1041.8	1099.4	1041.8	984.1	969.7	876.0	751.1	688.7	650.1	573.1	515.3
137.5°	984.3	1031.5	984.3	937.0	925.2	846.0	740.4	687.7	654.1	586.9	536.6
140°	944.8	989.0	944.8	900.7	889.7	821.3	730.1	684.5	654.8	595.5	550.9
142.5°	912.2	950.2	912.2	874.1	864.7	804.6	724.5	684.5	657.1	602.5	561.5
145°	863.3	892.0	863.3	834.5	827.3	778.1	712.6	679.8	657.1	611.7	577.7
147.5°	825.6	849.4	825.6	801.8	795.9	757.2	705.6	679.8	661.6	625.3	598.1
150°	802.0	821.3	802.0	782.6	777.8	745.2	701.6	679.8	664.0	632.4	608.7
152.5°	781.7	796.3	781.7	767.1	763.5	735.6	698.4	679.8	665.5	637.1	615.6
155°	758.5	768.1	758.5	748.8	746.4	724.2	694.6	679.8	668.9	647.1	630.8
157.5°	740.1	746.9	740.1	733.3	731.6	714.4	691.3	679.8	672.3	657.3	646.1
160°	729.1	733.0	729.1	725.2	724.2	709.4	689.6	679.8	673.8	662.0	653.0
162.5°	722.0	725.6	722.0	718.2	717.3	704.8	688.1	679.8	675.5	666.9	660.4
165°	711.5	715.4	711.5	707.6	706.6	697.7	685.8	679.8	677.9	674.0	671.1
167.5°	704.1	705.7	704.1	702.5	702.0	696.2	688.4	684.5	682.9	679.6	677.1
170°	702.0	702.0	702.0	702.0	702.0	696.2	688.4	684.5	684.4	684.2	684.0
172.5°	696.5	695.1	696.5	697.9	698.3	693.7	687.5	684.5	684.5	684.5	684.5
175°	693.2	693.2	693.2	693.2	693.2	690.3	686.4	684.5	685.4	687.2	688.7
177.5°	690.3	688.7	690.3	691.9	692.3	690.0	686.9	685.4	686.1	687.6	688.7
180°	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7



TEST NUMBER: P935633

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1264.3	1257.2	1257.2	1245.4	1240.7	1237.2	1231.3	1213.6	1208.9	1204.1	1211.2
5°	1274.9	1261.9	1252.5	1231.3	1213.6	1206.5	1184.1	1141.7	1113.3	1092.1	1080.3
7.5°	1277.2	1260.7	1243.1	1210.0	1167.5	1148.7	1080.3	1002.5	981.3	962.3	950.6
10°	1274.9	1256.0	1231.3	1181.7	1081.5	1048.5	980.0	929.3	916.4	912.8	916.4
12.5°	1266.6	1249.0	1214.8	1132.2	991.9	969.5	929.3	899.9	897.5	903.4	935.2
15°	1252.5	1236.0	1195.8	1066.1	942.3	925.8	897.5	886.9	899.9	941.1	1036.7
17.5°	1238.3	1219.5	1170.0	1001.3	904.6	892.8	872.7	894.0	967.1	1022.5	1054.4
20°	1219.5	1197.1	1140.4	954.1	877.4	866.8	857.4	953.0	1008.4	1028.4	1046.1
22.5°	1197.1	1173.4	1100.3	921.1	849.1	840.8	846.7	986.0	1008.4	1022.5	1037.8
25°	1167.5	1147.6	1053.2	895.1	826.7	817.3	839.7	982.4	995.4	998.9	1029.5
27.5°	1140.4	1114.5	1003.7	871.6	799.6	796.0	845.6	967.1	976.5	980.0	1013.0
30°	1107.4	1068.5	948.2	846.7	771.3	770.2	846.7	948.2	945.8	955.3	988.3
32.5°	1073.2	1000.1	885.7	816.1	744.2	743.0	838.5	919.9	917.5	930.6	955.3
35°	1041.4	947.1	800.8	780.8	710.0	711.2	818.4	886.9	888.1	899.9	915.2
37.5°	1008.4	901.0	707.6	741.9	677.0	677.0	791.3	856.2	853.9	857.4	878.6
40°	969.5	829.1	625.1	691.1	646.3	642.8	758.4	823.2	815.0	813.8	843.3
42.5°	928.1	750.1	563.8	623.9	610.9	606.2	718.2	783.1	767.7	771.3	809.1
45°	883.3	728.8	516.6	527.2	574.3	570.8	674.6	737.1	726.5	736.0	774.9
47.5°	838.5	686.4	501.2	437.6	535.4	534.2	626.3	692.3	686.4	695.8	737.1
50°	777.2	639.2	500.0	375.1	491.8	496.5	568.4	648.7	648.7	656.9	700.5
52.5°	698.2	581.5	454.1	339.6	441.0	455.2	517.7	610.9	613.2	621.5	660.4
55°	626.3	521.3	421.0	312.5	381.0	411.6	468.2	572.0	576.7	584.9	620.4
57.5°	560.2	434.0	414.0	280.7	325.5	355.0	424.5	534.2	536.6	543.7	577.9
60°	489.4	313.7	379.7	246.5	277.2	299.6	384.5	489.4	497.7	502.4	531.9
62.5°	409.3	227.6	344.4	222.9	253.6	258.3	351.4	446.9	457.6	461.1	478.8
65°	291.3	191.0	292.5	202.9	228.8	229.9	316.1	403.4	412.7	418.6	431.7
67.5°	196.9	155.7	222.9	184.0	209.9	211.1	281.9	352.6	365.6	370.3	378.6
70°	136.8	103.8	165.1	164.0	188.7	191.0	245.3	306.6	318.4	322.0	326.7
72.5°	100.2	83.7	136.8	147.5	166.3	168.6	207.5	254.8	266.5	270.1	272.4
75°	76.7	88.5	110.9	128.5	141.5	142.7	169.9	207.5	215.8	218.2	219.3
77.5°	61.3	82.6	81.4	103.8	115.6	113.2	133.3	160.4	167.5	167.5	167.5
80°	46.0	64.9	61.3	74.3	84.9	82.6	95.5	114.4	116.8	119.1	117.9
82.5°	34.2	41.2	41.2	47.1	56.6	54.3	63.6	74.3	74.3	74.3	76.7
85°	21.2	23.6	18.8	24.7	31.9	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	12.9	10.6	5.9	9.5	14.2	14.2	16.5	17.7	16.5	16.5	16.5
90°	12.1	8.3	4.6	8.3	12.1	12.9	20.4	30.2	35.1	31.2	23.4
92.5°	81.3	49.9	18.5	49.9	81.3	89.2	125.4	173.7	197.8	173.3	124.5
95°	159.4	101.8	44.4	101.8	159.4	173.8	308.6	488.3	578.1	515.9	391.5
97.5°	178.2	127.4	76.7	127.4	178.2	190.8	415.6	715.3	865.1	825.8	747.1
100°	193.7	147.7	101.7	147.7	193.7	205.2	454.6	787.1	953.4	956.3	962.1
102.5°	208.8	165.8	122.9	165.8	208.8	219.5	472.5	809.8	978.4	1028.6	1128.8
105°	231.7	195.4	159.0	195.4	231.7	240.8	485.8	812.4	975.6	1088.0	1312.7
107.5°	263.8	229.8	195.9	229.8	263.8	272.2	488.3	776.2	920.2	1076.9	1390.3
110°	282.1	251.5	220.9	251.5	282.1	289.7	484.5	744.2	874.0	1049.2	1399.6



TEST NUMBER: P935633

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	303.7	274.6	245.4	274.6	303.7	311.0	484.6	716.1	831.9	1011.2	1369.9
115°	336.2	309.3	282.3	309.3	336.2	342.9	489.2	684.0	781.5	954.2	1299.7
117.5°	367.8	343.4	318.9	343.4	367.8	373.9	498.3	664.0	746.9	902.7	1214.5
120°	386.2	363.2	340.2	363.2	386.2	391.9	505.7	657.2	733.0	875.5	1160.3
122.5°	407.4	384.2	361.0	384.2	407.4	413.2	516.3	653.7	722.4	850.7	1107.2
125°	435.2	414.0	392.8	414.0	435.2	440.4	530.6	650.7	710.8	819.8	1037.7
127.5°	461.4	440.1	418.7	440.1	461.4	466.8	544.9	649.0	701.1	794.6	981.8
130°	478.6	455.6	432.6	455.6	478.6	484.3	555.4	650.1	697.4	780.7	947.2
132.5°	493.0	470.0	446.9	470.0	493.0	498.7	563.9	650.7	694.2	768.7	917.9
135°	510.0	489.2	468.2	489.2	510.0	515.3	573.1	650.1	688.7	751.1	876.0
137.5°	531.4	510.6	489.9	510.6	531.4	536.6	586.9	654.1	687.7	740.4	846.0
140°	546.1	527.0	507.9	527.0	546.1	550.9	595.5	654.8	684.5	730.1	821.3
142.5°	557.1	539.4	521.7	539.4	557.1	561.5	602.5	657.1	684.5	724.5	804.6
145°	573.9	558.4	543.1	558.4	573.9	577.7	611.7	657.1	679.8	712.6	778.1
147.5°	594.3	579.3	564.3	579.3	594.3	598.1	625.3	661.6	679.8	705.6	757.2
150°	605.3	591.7	578.1	591.7	605.3	608.7	632.4	664.0	679.8	701.6	745.2
152.5°	613.1	602.8	592.5	602.8	613.1	615.6	637.1	665.5	679.8	698.4	735.6
155°	628.9	621.4	613.8	621.4	628.9	630.8	647.1	668.9	679.8	694.6	724.2
157.5°	644.2	636.9	629.5	636.9	644.2	646.1	657.3	672.3	679.8	691.3	714.4
160°	651.6	645.8	640.1	645.8	651.6	653.0	662.0	673.8	679.8	689.6	709.4
162.5°	659.4	655.0	650.7	655.0	659.4	660.4	666.9	675.5	679.8	688.1	704.8
165°	670.1	666.2	662.2	666.2	670.1	671.1	674.0	677.9	679.8	685.8	697.7
167.5°	676.6	674.7	672.9	674.7	676.6	677.1	679.6	682.9	684.5	688.4	696.2
170°	683.6	681.7	679.8	681.7	683.6	684.0	684.2	684.4	684.5	688.4	696.2
172.5°	684.4	683.9	683.6	683.9	684.4	684.5	684.5	684.5	684.5	687.5	693.7
175°	688.7	688.7	688.7	688.7	688.7	688.7	687.2	685.4	684.5	686.4	690.3
177.5°	688.7	688.7	688.7	688.7	688.7	688.7	687.6	686.1	685.4	686.9	690.0
180°	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7



TEST NUMBER: P935633

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1203.0	1199.4	1204.1	1191.1	1204.1	1199.4	1203.0	1211.2	1204.1	1208.9	1213.6
5°	1055.5	1049.6	1030.8	1015.4	1030.8	1049.6	1055.5	1080.3	1092.1	1113.3	1141.7
7.5°	943.5	938.8	934.0	924.6	934.0	938.8	943.5	950.6	962.3	981.3	1002.5
10°	918.7	919.9	927.0	925.8	927.0	919.9	918.7	916.4	912.8	916.4	929.3
12.5°	982.4	993.0	1032.0	1029.5	1032.0	993.0	982.4	935.2	903.4	897.5	899.9
15°	1055.5	1059.1	1067.3	1068.5	1067.3	1059.1	1055.5	1036.7	941.1	899.9	886.9
17.5°	1062.6	1063.8	1069.7	1069.7	1069.7	1063.8	1062.6	1054.4	1022.5	967.1	894.0
20°	1056.7	1059.1	1070.9	1073.2	1070.9	1059.1	1056.7	1046.1	1028.4	1008.4	953.0
22.5°	1054.4	1059.1	1068.5	1067.3	1068.5	1059.1	1054.4	1037.8	1022.5	1008.4	986.0
25°	1042.6	1042.6	1043.7	1044.9	1043.7	1042.6	1042.6	1029.5	998.9	995.4	982.4
27.5°	1017.8	1020.2	1027.2	1026.1	1027.2	1020.2	1017.8	1013.0	980.0	976.5	967.1
30°	995.4	993.0	987.1	982.4	987.1	993.0	995.4	988.3	955.3	945.8	948.2
32.5°	957.6	951.7	945.8	942.3	945.8	951.7	957.6	955.3	930.6	917.5	919.9
35°	912.8	914.0	912.8	909.3	912.8	914.0	912.8	915.2	899.9	888.1	886.9
37.5°	881.0	883.3	882.2	877.4	882.2	883.3	881.0	878.6	857.4	853.9	856.2
40°	848.0	849.1	848.0	844.4	848.0	849.1	848.0	843.3	813.8	815.0	823.2
42.5°	816.1	815.0	811.4	809.1	811.4	815.0	816.1	809.1	771.3	767.7	783.1
45°	779.5	780.8	773.6	770.2	773.6	780.8	779.5	774.9	736.0	726.5	737.1
47.5°	743.0	743.0	737.1	733.6	737.1	743.0	743.0	737.1	695.8	686.4	692.3
50°	704.1	702.9	694.6	693.5	694.6	702.9	704.1	700.5	656.9	648.7	648.7
52.5°	659.3	659.3	660.4	662.8	660.4	659.3	659.3	660.4	621.5	613.2	610.9
55°	620.4	621.5	629.7	632.2	629.7	621.5	620.4	620.4	584.9	576.7	572.0
57.5°	580.2	580.2	586.2	586.2	586.2	580.2	580.2	577.9	543.7	536.6	534.2
60°	534.2	536.6	541.3	540.1	541.3	536.6	534.2	531.9	502.4	497.7	489.4
62.5°	485.9	488.3	489.4	487.1	489.4	488.3	485.9	478.8	461.1	457.6	446.9
65°	435.2	437.6	438.7	436.4	438.7	437.6	435.2	431.7	418.6	412.7	403.4
67.5°	383.3	382.1	381.0	385.6	381.0	382.1	383.3	378.6	370.3	365.6	352.6
70°	330.2	330.2	329.0	331.4	329.0	330.2	330.2	326.7	322.0	318.4	306.6
72.5°	273.6	272.4	277.2	273.6	277.2	272.4	273.6	272.4	270.1	266.5	254.8
75°	218.2	220.6	218.2	221.7	218.2	220.6	218.2	219.3	218.2	215.8	207.5
77.5°	166.3	168.6	166.3	166.3	166.3	168.6	166.3	167.5	167.5	167.5	160.4
80°	117.9	116.8	116.8	115.6	116.8	116.8	117.9	117.9	119.1	116.8	114.4
82.5°	75.5	74.3	74.3	76.7	74.3	74.3	75.5	76.7	74.3	74.3	74.3
85°	41.2	42.5	40.1	40.1	40.1	42.5	41.2	38.9	41.2	41.2	40.1
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.5	16.5	16.5	17.7
90°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23.4	31.2	35.1	30.2
92.5°	87.8	84.4	70.3	56.4	70.3	84.4	87.8	124.5	173.3	197.8	173.7
95°	298.1	287.5	245.2	202.9	245.2	287.5	298.1	391.5	515.9	578.1	488.3
97.5°	688.1	668.0	587.5	507.0	587.5	668.0	688.1	747.1	825.8	865.1	715.3
100°	966.4	942.3	846.5	750.5	846.5	942.3	966.4	962.1	956.3	953.4	787.1
102.5°	1204.0	1183.4	1101.2	1019.1	1101.2	1183.4	1204.0	1128.8	1028.6	978.4	809.8
105°	1481.2	1470.1	1426.0	1381.9	1426.0	1470.1	1481.2	1312.7	1088.0	975.6	812.4
107.5°	1625.4	1628.0	1638.8	1649.5	1638.8	1628.0	1625.4	1390.3	1076.9	920.2	776.2
110°	1662.4	1673.9	1719.9	1765.9	1719.9	1673.9	1662.4	1399.6	1049.2	874.0	744.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1638.9	1656.5	1727.1	1797.8	1727.1	1656.5	1638.9	1369.9	1011.2	831.9	716.1
115°	1558.9	1583.3	1681.3	1779.3	1681.3	1583.3	1558.9	1299.7	954.2	781.5	684.0
117.5°	1448.4	1475.5	1584.2	1692.9	1584.2	1475.5	1448.4	1214.5	902.7	746.9	664.0
120°	1374.0	1400.4	1505.9	1611.5	1505.9	1400.4	1374.0	1160.3	875.5	733.0	657.2
122.5°	1299.6	1325.6	1429.7	1533.9	1429.7	1325.6	1299.6	1107.2	850.7	722.4	653.7
125°	1201.1	1225.1	1321.0	1416.9	1321.0	1225.1	1201.1	1037.7	819.8	710.8	650.7
127.5°	1122.1	1142.4	1223.2	1304.2	1223.2	1142.4	1122.1	981.8	794.6	701.1	649.0
130°	1072.2	1090.9	1165.7	1240.5	1165.7	1090.9	1072.2	947.2	780.7	697.4	650.1
132.5°	1029.7	1046.4	1113.4	1180.3	1113.4	1046.4	1029.7	917.9	768.7	694.2	650.7
135°	969.7	984.1	1041.8	1099.4	1041.8	984.1	969.7	876.0	751.1	688.7	650.1
137.5°	925.2	937.0	984.3	1031.5	984.3	937.0	925.2	846.0	740.4	687.7	654.1
140°	889.7	900.7	944.8	989.0	944.8	900.7	889.7	821.3	730.1	684.5	654.8
142.5°	864.7	874.1	912.2	950.2	912.2	874.1	864.7	804.6	724.5	684.5	657.1
145°	827.3	834.5	863.3	892.0	863.3	834.5	827.3	778.1	712.6	679.8	657.1
147.5°	795.9	801.8	825.6	849.4	825.6	801.8	795.9	757.2	705.6	679.8	661.6
150°	777.8	782.6	802.0	821.3	802.0	782.6	777.8	745.2	701.6	679.8	664.0
152.5°	763.5	767.1	781.7	796.3	781.7	767.1	763.5	735.6	698.4	679.8	665.5
155°	746.4	748.8	758.5	768.1	758.5	748.8	746.4	724.2	694.6	679.8	668.9
157.5°	731.6	733.3	740.1	746.9	740.1	733.3	731.6	714.4	691.3	679.8	672.3
160°	724.2	725.2	729.1	733.0	729.1	725.2	724.2	709.4	689.6	679.8	673.8
162.5°	717.3	718.2	722.0	725.6	722.0	718.2	717.3	704.8	688.1	679.8	675.5
165°	706.6	707.6	711.5	715.4	711.5	707.6	706.6	697.7	685.8	679.8	677.9
167.5°	702.0	702.5	704.1	705.7	704.1	702.5	702.0	696.2	688.4	684.5	682.9
170°	702.0	702.0	702.0	702.0	702.0	702.0	702.0	696.2	688.4	684.5	684.4
172.5°	698.3	697.9	696.5	695.1	696.5	697.9	698.3	693.7	687.5	684.5	684.5
175°	693.2	693.2	693.2	693.2	693.2	693.2	693.2	690.3	686.4	684.5	685.4
177.5°	692.3	691.9	690.3	688.7	690.3	691.9	692.3	690.0	686.9	685.4	686.1
180°	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1231.3	1237.2	1240.7	1245.4	1257.2
5°	1184.1	1206.5	1213.6	1231.3	1252.5
7.5°	1080.3	1148.7	1167.5	1210.0	1243.1
10°	980.0	1048.5	1081.5	1181.7	1231.3
12.5°	929.3	969.5	991.9	1132.2	1214.8
15°	897.5	925.8	942.3	1066.1	1195.8
17.5°	872.7	892.8	904.6	1001.3	1170.0
20°	857.4	866.8	877.4	954.1	1140.4
22.5°	846.7	840.8	849.1	921.1	1100.3
25°	839.7	817.3	826.7	895.1	1053.2
27.5°	845.6	796.0	799.6	871.6	1003.7
30°	846.7	770.2	771.3	846.7	948.2
32.5°	838.5	743.0	744.2	816.1	885.7
35°	818.4	711.2	710.0	780.8	800.8
37.5°	791.3	677.0	677.0	741.9	707.6
40°	758.4	642.8	646.3	691.1	625.1
42.5°	718.2	606.2	610.9	623.9	563.8
45°	674.6	570.8	574.3	527.2	516.6
47.5°	626.3	534.2	535.4	437.6	501.2
50°	568.4	496.5	491.8	375.1	500.0
52.5°	517.7	455.2	441.0	339.6	454.1
55°	468.2	411.6	381.0	312.5	421.0
57.5°	424.5	355.0	325.5	280.7	414.0
60°	384.5	299.6	277.2	246.5	379.7
62.5°	351.4	258.3	253.6	222.9	344.4
65°	316.1	229.9	228.8	202.9	292.5
67.5°	281.9	211.1	209.9	184.0	222.9
70°	245.3	191.0	188.7	164.0	165.1
72.5°	207.5	168.6	166.3	147.5	136.8
75°	169.9	142.7	141.5	128.5	110.9
77.5°	133.3	113.2	115.6	103.8	81.4
80°	95.5	82.6	84.9	74.3	61.3
82.5°	63.6	54.3	56.6	47.1	41.2
85°	35.3	30.7	31.9	24.7	18.8
87.5°	16.5	14.2	14.2	9.5	5.9
90°	20.4	12.9	12.1	8.3	4.6
92.5°	125.4	89.2	81.3	49.9	18.5
95°	308.6	173.8	159.4	101.8	44.4
97.5°	415.6	190.8	178.2	127.4	76.7
100°	454.6	205.2	193.7	147.7	101.7
102.5°	472.5	219.5	208.8	165.8	122.9
105°	485.8	240.8	231.7	195.4	159.0
107.5°	488.3	272.2	263.8	229.8	195.9
110°	484.5	289.7	282.1	251.5	220.9



TEST NUMBER: P935633

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	484.6	311.0	303.7	274.6	245.4
115°	489.2	342.9	336.2	309.3	282.3
117.5°	498.3	373.9	367.8	343.4	318.9
120°	505.7	391.9	386.2	363.2	340.2
122.5°	516.3	413.2	407.4	384.2	361.0
125°	530.6	440.4	435.2	414.0	392.8
127.5°	544.9	466.8	461.4	440.1	418.7
130°	555.4	484.3	478.6	455.6	432.6
132.5°	563.9	498.7	493.0	470.0	446.9
135°	573.1	515.3	510.0	489.2	468.2
137.5°	586.9	536.6	531.4	510.6	489.9
140°	595.5	550.9	546.1	527.0	507.9
142.5°	602.5	561.5	557.1	539.4	521.7
145°	611.7	577.7	573.9	558.4	543.1
147.5°	625.3	598.1	594.3	579.3	564.3
150°	632.4	608.7	605.3	591.7	578.1
152.5°	637.1	615.6	613.1	602.8	592.5
155°	647.1	630.8	628.9	621.4	613.8
157.5°	657.3	646.1	644.2	636.9	629.5
160°	662.0	653.0	651.6	645.8	640.1
162.5°	666.9	660.4	659.4	655.0	650.7
165°	674.0	671.1	670.1	666.2	662.2
167.5°	679.6	677.1	676.6	674.7	672.9
170°	684.2	684.0	683.6	681.7	679.8
172.5°	684.5	684.5	684.4	683.9	683.6
175°	687.2	688.7	688.7	688.7	688.7
177.5°	687.6	688.7	688.7	688.7	688.7
180°	688.7	688.7	688.7	688.7	688.7



TEST NUMBER: P935633
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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	12.51	13.31	13.54	14.34	15.72	15.31	16.10	16.33	17.14	18.52
	3H	12.99	13.70	14.02	14.74	16.14	16.64	17.35	17.67	18.39	19.79
	4H	13.17	13.85	14.22	14.89	16.30	17.08	17.75	18.12	18.79	20.20
	6H	13.29	13.91	14.34	14.96	16.38	17.35	17.97	18.40	19.02	20.44
	8H	13.29	13.88	14.35	14.94	16.36	17.42	18.01	18.48	19.07	20.49
	12H	13.26	13.82	14.32	14.87	16.31	17.45	18.01	18.51	19.07	20.51
4H	2H	13.53	14.20	14.58	15.25	16.65	15.71	16.39	16.77	17.43	18.84
	3H	14.55	15.11	15.61	16.18	17.60	17.20	17.76	18.26	18.83	20.26
	4H	14.82	15.34	15.89	16.40	17.84	17.72	18.24	18.79	19.30	20.74
	6H	14.95	15.39	16.02	16.47	17.91	18.08	18.52	19.15	19.60	21.04
	8H	14.95	15.36	16.03	16.44	17.89	18.18	18.59	19.25	19.66	21.12
	12H	14.91	15.29	16.01	16.38	17.84	18.22	18.60	19.32	19.69	21.15
8H	4H	15.27	15.68	16.34	16.76	18.21	17.84	18.25	18.92	19.33	20.78
	6H	15.53	15.87	16.62	16.99	18.44	18.27	18.61	19.37	19.73	21.18
	8H	15.57	15.87	16.67	16.97	18.44	18.41	18.71	19.52	19.81	21.28
	12H	15.55	15.81	16.66	16.91	18.42	18.50	18.77	19.61	19.86	21.37
12H	4H	15.27	15.64	16.36	16.73	18.19	17.80	18.18	18.90	19.27	20.72
	6H	15.58	15.88	16.69	16.98	18.45	18.26	18.56	19.37	19.66	21.13
	8H	15.65	15.91	16.76	17.01	18.52	18.42	18.68	19.53	19.78	21.29