

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: P935233

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935233
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

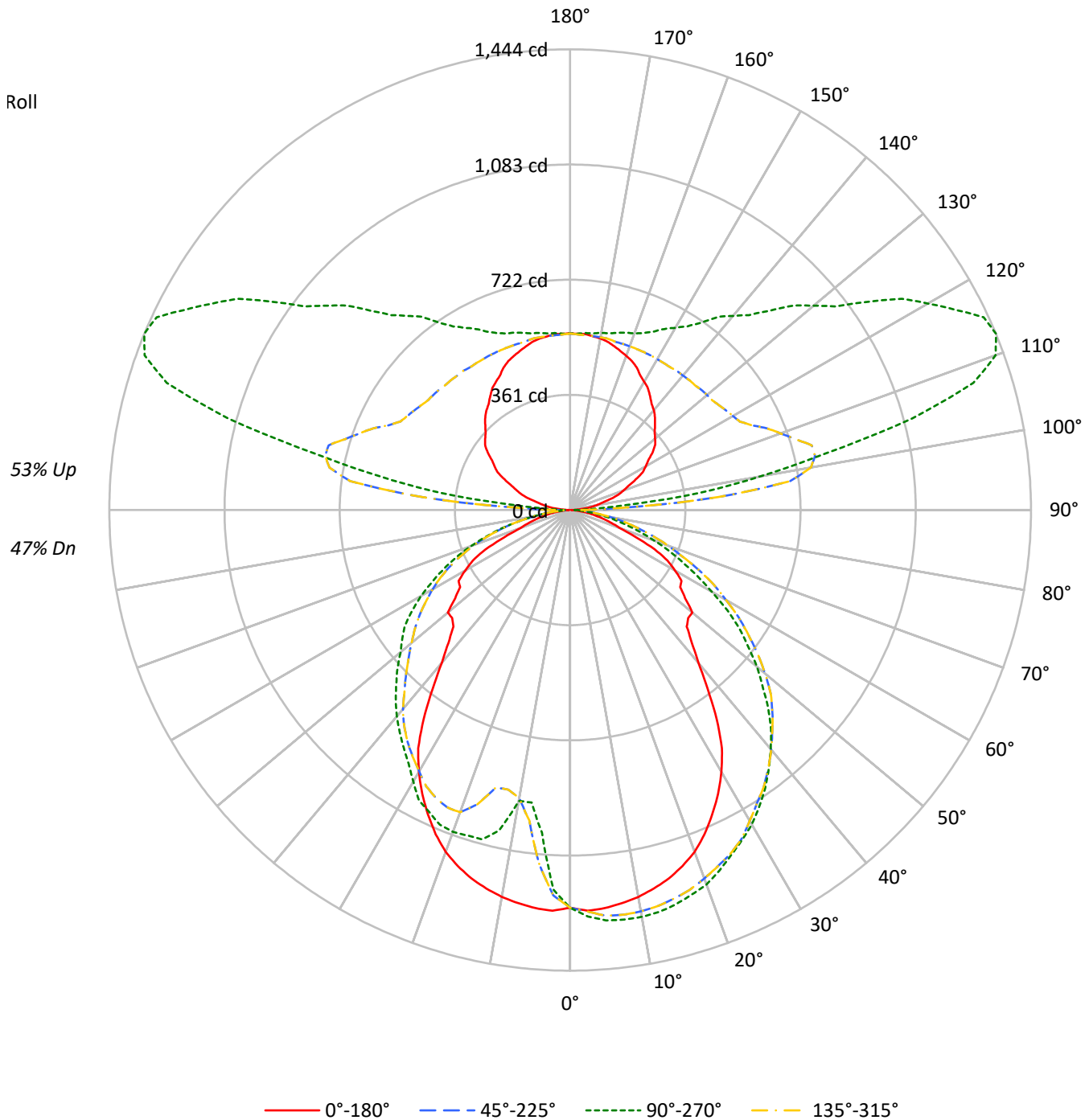
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6820.5 lumens
Efficiency: N/A
Efficacy: 117.6 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

TEST NUMBER: P935233
CATALOG NUMBER: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P935233

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

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	1.6
10°-20°	319.5	4.7
20°-30°	493.9	7.2
30°-40°	589.6	8.6
40°-50°	593.0	8.7
50°-60°	516.0	7.6
60°-70°	365.9	5.4
70°-80°	193.6	2.8
80°-90°	50.3	0.7
90°-100°	269.7	4.0
100°-110°	709.0	10.4
110°-120°	735.1	10.8
120°-130°	589.6	8.6
130°-140°	462.7	6.8
140°-150°	355.1	5.2
150°-160°	255.7	3.7
160°-170°	156.5	2.3
170°-180°	52.9	0.8
0°-30°	925.9	13.6
0°-40°	1515.5	22.2
0°-60°	2624.5	38.5
0°-90°	3234.3	47.4
90°-120°	1713.7	25.1
90°-150°	3121.1	45.8
90°-180°	3586.0	52.6
0°-180°	6820.5	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°	4	14	4	14	4	4
95°	36	163	36	163	36	40
105°	128	1110	128	1110	128	135
115°	227	1429	227	1429	227	224
125°	316	1138	316	1138	316	280
135°	376	883	376	883	376	291
145°	436	717	436	717	436	273
155°	493	617	493	617	493	227
165°	532	575	532	575	532	150
175°	553	557	553	557	553	53
180°	553	553	553	553	553	



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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°	3.7	6.7	9.6	10.4	16.3	24.3	28.2	25.1	18.8	14.1	14.1
92.5°	14.8	40.1	65.3	71.7	100.8	139.5	158.9	139.2	100.0	70.5	67.7
95°	35.6	81.9	128.1	139.6	247.9	392.2	464.4	414.4	314.5	239.5	231.0
97.5°	61.6	102.4	143.2	153.4	333.9	574.7	695.0	663.4	600.2	552.8	536.6
100°	81.7	118.6	155.6	164.9	365.3	632.4	766.0	768.3	772.8	776.3	757.0
102.5°	98.7	133.3	167.7	176.4	379.6	650.5	786.0	826.3	906.8	967.2	950.6
105°	127.7	156.9	186.1	193.4	390.3	652.6	783.8	874.1	1054.5	1190.0	1181.1
107.5°	157.5	184.7	211.9	218.7	392.2	623.5	739.2	865.1	1116.9	1305.8	1308.0
110°	177.5	202.1	226.6	232.8	389.2	597.8	702.0	842.8	1124.3	1335.4	1344.7



TEST NUMBER: P935233

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	197.2	220.6	244.0	249.8	389.4	575.3	668.3	812.4	1100.4	1316.5	1330.7
115°	226.8	248.4	270.0	275.5	392.9	549.6	627.9	766.7	1044.2	1252.3	1272.0
117.5°	256.2	275.8	295.5	300.4	400.3	533.4	600.0	725.3	975.7	1163.6	1185.4
120°	273.2	291.7	310.2	314.8	406.1	528.0	588.9	703.3	932.2	1103.8	1125.1
122.5°	290.0	308.7	327.3	332.0	414.7	525.1	580.3	683.3	889.4	1044.0	1064.9
125°	315.6	332.6	349.5	353.8	426.2	522.7	571.0	658.6	833.6	964.9	984.2
127.5°	336.3	353.5	370.7	375.0	437.7	521.4	563.2	638.4	788.7	901.5	917.7
130°	347.5	366.0	384.5	389.1	446.1	522.3	560.3	627.2	761.0	861.4	876.4
132.5°	359.0	377.5	396.0	400.6	452.9	522.7	557.6	617.5	737.3	827.2	840.7
135°	376.2	392.9	409.8	414.0	460.4	522.3	553.2	603.4	703.7	778.9	790.5
137.5°	393.6	410.2	426.9	431.0	471.5	525.5	552.4	594.8	679.6	743.3	752.7
140°	408.0	423.4	438.7	442.6	478.4	526.0	549.9	586.5	659.7	714.7	723.6
142.5°	419.2	433.4	447.6	451.1	484.1	527.9	549.9	582.0	646.3	694.6	702.3
145°	436.2	448.6	460.9	464.1	491.5	528.0	546.2	572.5	625.1	664.6	670.4
147.5°	453.4	465.4	477.4	480.4	502.4	531.6	546.2	566.9	608.3	639.4	644.2
150°	464.4	475.3	486.2	489.0	508.1	533.5	546.2	563.7	598.6	624.8	628.7
152.5°	475.9	484.2	492.5	494.5	511.7	534.7	546.2	561.1	590.9	613.3	616.3
155°	493.1	499.2	505.3	506.8	520.0	537.4	546.2	558.1	581.8	599.6	601.5
157.5°	505.7	511.6	517.5	519.1	528.1	540.1	546.2	555.4	573.9	587.7	589.0
160°	514.2	518.9	523.4	524.6	531.8	541.4	546.2	554.1	569.9	581.8	582.6
162.5°	522.7	526.2	529.7	530.6	535.8	542.7	546.2	552.9	566.2	576.2	576.9
165°	532.0	535.1	538.2	539.1	541.5	544.6	546.2	551.0	560.6	567.7	568.5
167.5°	540.6	542.1	543.6	544.0	545.9	548.5	549.9	553.0	559.2	564.0	564.3
170°	546.2	547.6	549.1	549.5	549.6	549.8	549.9	553.0	559.2	564.0	564.0
172.5°	549.1	549.5	549.8	549.9	549.9	549.9	549.9	552.4	557.3	561.0	560.7
175°	553.2	553.2	553.2	553.2	552.1	550.6	549.9	551.5	554.6	556.9	556.9
177.5°	553.2	553.2	553.2	553.2	552.4	551.2	550.6	551.8	554.3	556.2	555.8
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



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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°	14.1	14.1	14.1	14.1	14.1	18.8	25.1	28.2	24.3	16.3	10.4
92.5°	56.5	45.3	56.5	67.7	70.5	100.0	139.2	158.9	139.5	100.8	71.7
95°	197.0	163.0	197.0	231.0	239.5	314.5	414.4	464.4	392.2	247.9	139.6
97.5°	471.9	407.3	471.9	536.6	552.8	600.2	663.4	695.0	574.7	333.9	153.4
100°	680.0	603.0	680.0	757.0	776.3	772.8	768.3	766.0	632.4	365.3	164.9
102.5°	884.7	818.7	884.7	950.6	967.2	906.8	826.3	786.0	650.5	379.6	176.4
105°	1145.6	1110.2	1145.6	1181.1	1190.0	1054.5	874.1	783.8	652.6	390.3	193.4
107.5°	1316.5	1325.1	1316.5	1308.0	1305.8	1116.9	865.1	739.2	623.5	392.2	218.7
110°	1381.7	1418.6	1381.7	1344.7	1335.4	1124.3	842.8	702.0	597.8	389.2	232.8



TEST NUMBER: P935233

CATALOG NUMBER: SQ4-FA-100U-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°	1387.5	1444.3	1387.5	1330.7	1316.5	1100.4	812.4	668.3	575.3	389.4	249.8
115°	1350.7	1429.4	1350.7	1272.0	1252.3	1044.2	766.7	627.9	549.6	392.9	275.5
117.5°	1272.7	1360.0	1272.7	1185.4	1163.6	975.7	725.3	600.0	533.4	400.3	300.4
120°	1209.9	1294.7	1209.9	1125.1	1103.8	932.2	703.3	588.9	528.0	406.1	314.8
122.5°	1148.6	1232.3	1148.6	1064.9	1044.0	889.4	683.3	580.3	525.1	414.7	332.0
125°	1061.2	1138.4	1061.2	984.2	964.9	833.6	658.6	571.0	522.7	426.2	353.8
127.5°	982.8	1047.8	982.8	917.7	901.5	788.7	638.4	563.2	521.4	437.7	375.0
130°	936.4	996.5	936.4	876.4	861.4	761.0	627.2	560.3	522.3	446.1	389.1
132.5°	894.4	948.2	894.4	840.7	827.2	737.3	617.5	557.6	522.7	452.9	400.6
135°	836.8	883.2	836.8	790.5	778.9	703.7	603.4	553.2	522.3	460.4	414.0
137.5°	790.8	828.7	790.8	752.7	743.3	679.6	594.8	552.4	525.5	471.5	431.0
140°	759.1	794.5	759.1	723.6	714.7	659.7	586.5	549.9	526.0	478.4	442.6
142.5°	732.8	763.4	732.8	702.3	694.6	646.3	582.0	549.9	527.9	484.1	451.1
145°	693.5	716.6	693.5	670.4	664.6	625.1	572.5	546.2	528.0	491.5	464.1
147.5°	663.3	682.4	663.3	644.2	639.4	608.3	566.9	546.2	531.6	502.4	480.4
150°	644.2	659.7	644.2	628.7	624.8	598.6	563.7	546.2	533.5	508.1	489.0
152.5°	628.0	639.7	628.0	616.3	613.3	590.9	561.1	546.2	534.7	511.7	494.5
155°	609.3	617.1	609.3	601.5	599.6	581.8	558.1	546.2	537.4	520.0	506.8
157.5°	594.6	600.0	594.6	589.0	587.7	573.9	555.4	546.2	540.1	528.1	519.1
160°	585.7	588.9	585.7	582.6	581.8	569.9	554.1	546.2	541.4	531.8	524.6
162.5°	579.9	582.9	579.9	576.9	576.2	566.2	552.9	546.2	542.7	535.8	530.6
165°	571.6	574.8	571.6	568.5	567.7	560.6	551.0	546.2	544.6	541.5	539.1
167.5°	565.6	566.9	565.6	564.3	564.0	559.2	553.0	549.9	548.5	545.9	544.0
170°	564.0	564.0	564.0	564.0	564.0	559.2	553.0	549.9	549.8	549.6	549.5
172.5°	559.6	558.4	559.6	560.7	561.0	557.3	552.4	549.9	549.9	549.9	549.9
175°	556.9	556.9	556.9	556.9	556.9	554.6	551.5	549.9	550.6	552.1	553.2
177.5°	554.6	553.2	554.6	555.8	556.2	554.3	551.8	550.6	551.2	552.4	553.2
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935233

CATALOG NUMBER: SQ4-FA-100U-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°	9.6	6.7	3.7	6.7	9.6	10.4	16.3	24.3	28.2	25.1	18.8
92.5°	65.3	40.1	14.8	40.1	65.3	71.7	100.8	139.5	158.9	139.2	100.0
95°	128.1	81.9	35.6	81.9	128.1	139.6	247.9	392.2	464.4	414.4	314.5
97.5°	143.2	102.4	61.6	102.4	143.2	153.4	333.9	574.7	695.0	663.4	600.2
100°	155.6	118.6	81.7	118.6	155.6	164.9	365.3	632.4	766.0	768.3	772.8
102.5°	167.7	133.3	98.7	133.3	167.7	176.4	379.6	650.5	786.0	826.3	906.8
105°	186.1	156.9	127.7	156.9	186.1	193.4	390.3	652.6	783.8	874.1	1054.5
107.5°	211.9	184.7	157.5	184.7	211.9	218.7	392.2	623.5	739.2	865.1	1116.9
110°	226.6	202.1	177.5	202.1	226.6	232.8	389.2	597.8	702.0	842.8	1124.3



TEST NUMBER: P935233

CATALOG NUMBER: SQ4-FA-100U-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°	244.0	220.6	197.2	220.6	244.0	249.8	389.4	575.3	668.3	812.4	1100.4
115°	270.0	248.4	226.8	248.4	270.0	275.5	392.9	549.6	627.9	766.7	1044.2
117.5°	295.5	275.8	256.2	275.8	295.5	300.4	400.3	533.4	600.0	725.3	975.7
120°	310.2	291.7	273.2	291.7	310.2	314.8	406.1	528.0	588.9	703.3	932.2
122.5°	327.3	308.7	290.0	308.7	327.3	332.0	414.7	525.1	580.3	683.3	889.4
125°	349.5	332.6	315.6	332.6	349.5	353.8	426.2	522.7	571.0	658.6	833.6
127.5°	370.7	353.5	336.3	353.5	370.7	375.0	437.7	521.4	563.2	638.4	788.7
130°	384.5	366.0	347.5	366.0	384.5	389.1	446.1	522.3	560.3	627.2	761.0
132.5°	396.0	377.5	359.0	377.5	396.0	400.6	452.9	522.7	557.6	617.5	737.3
135°	409.8	392.9	376.2	392.9	409.8	414.0	460.4	522.3	553.2	603.4	703.7
137.5°	426.9	410.2	393.6	410.2	426.9	431.0	471.5	525.5	552.4	594.8	679.6
140°	438.7	423.4	408.0	423.4	438.7	442.6	478.4	526.0	549.9	586.5	659.7
142.5°	447.6	433.4	419.2	433.4	447.6	451.1	484.1	527.9	549.9	582.0	646.3
145°	460.9	448.6	436.2	448.6	460.9	464.1	491.5	528.0	546.2	572.5	625.1
147.5°	477.4	465.4	453.4	465.4	477.4	480.4	502.4	531.6	546.2	566.9	608.3
150°	486.2	475.3	464.4	475.3	486.2	489.0	508.1	533.5	546.2	563.7	598.6
152.5°	492.5	484.2	475.9	484.2	492.5	494.5	511.7	534.7	546.2	561.1	590.9
155°	505.3	499.2	493.1	499.2	505.3	506.8	520.0	537.4	546.2	558.1	581.8
157.5°	517.5	511.6	505.7	511.6	517.5	519.1	528.1	540.1	546.2	555.4	573.9
160°	523.4	518.9	514.2	518.9	523.4	524.6	531.8	541.4	546.2	554.1	569.9
162.5°	529.7	526.2	522.7	526.2	529.7	530.6	535.8	542.7	546.2	552.9	566.2
165°	538.2	535.1	532.0	535.1	538.2	539.1	541.5	544.6	546.2	551.0	560.6
167.5°	543.6	542.1	540.6	542.1	543.6	544.0	545.9	548.5	549.9	553.0	559.2
170°	549.1	547.6	546.2	547.6	549.1	549.5	549.6	549.8	549.9	553.0	559.2
172.5°	549.8	549.5	549.1	549.5	549.8	549.9	549.9	549.9	549.9	552.4	557.3
175°	553.2	553.2	553.2	553.2	553.2	553.2	552.1	550.6	549.9	551.5	554.6
177.5°	553.2	553.2	553.2	553.2	553.2	553.2	552.4	551.2	550.6	551.8	554.3
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935233

CATALOG NUMBER: SQ4-FA-100U-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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	18.8	25.1	28.2	24.3
92.5°	70.5	67.7	56.5	45.3	56.5	67.7	70.5	100.0	139.2	158.9	139.5
95°	239.5	231.0	197.0	163.0	197.0	231.0	239.5	314.5	414.4	464.4	392.2
97.5°	552.8	536.6	471.9	407.3	471.9	536.6	552.8	600.2	663.4	695.0	574.7
100°	776.3	757.0	680.0	603.0	680.0	757.0	776.3	772.8	768.3	766.0	632.4
102.5°	967.2	950.6	884.7	818.7	884.7	950.6	967.2	906.8	826.3	786.0	650.5
105°	1190.0	1181.1	1145.6	1110.2	1145.6	1181.1	1190.0	1054.5	874.1	783.8	652.6
107.5°	1305.8	1308.0	1316.5	1325.1	1316.5	1308.0	1305.8	1116.9	865.1	739.2	623.5
110°	1335.4	1344.7	1381.7	1418.6	1381.7	1344.7	1335.4	1124.3	842.8	702.0	597.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1316.5	1330.7	1387.5	1444.3	1387.5	1330.7	1316.5	1100.4	812.4	668.3	575.3
115°	1252.3	1272.0	1350.7	1429.4	1350.7	1272.0	1252.3	1044.2	766.7	627.9	549.6
117.5°	1163.6	1185.4	1272.7	1360.0	1272.7	1185.4	1163.6	975.7	725.3	600.0	533.4
120°	1103.8	1125.1	1209.9	1294.7	1209.9	1125.1	1103.8	932.2	703.3	588.9	528.0
122.5°	1044.0	1064.9	1148.6	1232.3	1148.6	1064.9	1044.0	889.4	683.3	580.3	525.1
125°	964.9	984.2	1061.2	1138.4	1061.2	984.2	964.9	833.6	658.6	571.0	522.7
127.5°	901.5	917.7	982.8	1047.8	982.8	917.7	901.5	788.7	638.4	563.2	521.4
130°	861.4	876.4	936.4	996.5	936.4	876.4	861.4	761.0	627.2	560.3	522.3
132.5°	827.2	840.7	894.4	948.2	894.4	840.7	827.2	737.3	617.5	557.6	522.7
135°	778.9	790.5	836.8	883.2	836.8	790.5	778.9	703.7	603.4	553.2	522.3
137.5°	743.3	752.7	790.8	828.7	790.8	752.7	743.3	679.6	594.8	552.4	525.5
140°	714.7	723.6	759.1	794.5	759.1	723.6	714.7	659.7	586.5	549.9	526.0
142.5°	694.6	702.3	732.8	763.4	732.8	702.3	694.6	646.3	582.0	549.9	527.9
145°	664.6	670.4	693.5	716.6	693.5	670.4	664.6	625.1	572.5	546.2	528.0
147.5°	639.4	644.2	663.3	682.4	663.3	644.2	639.4	608.3	566.9	546.2	531.6
150°	624.8	628.7	644.2	659.7	644.2	628.7	624.8	598.6	563.7	546.2	533.5
152.5°	613.3	616.3	628.0	639.7	628.0	616.3	613.3	590.9	561.1	546.2	534.7
155°	599.6	601.5	609.3	617.1	609.3	601.5	599.6	581.8	558.1	546.2	537.4
157.5°	587.7	589.0	594.6	600.0	594.6	589.0	587.7	573.9	555.4	546.2	540.1
160°	581.8	582.6	585.7	588.9	585.7	582.6	581.8	569.9	554.1	546.2	541.4
162.5°	576.2	576.9	579.9	582.9	579.9	576.9	576.2	566.2	552.9	546.2	542.7
165°	567.7	568.5	571.6	574.8	571.6	568.5	567.7	560.6	551.0	546.2	544.6
167.5°	564.0	564.3	565.6	566.9	565.6	564.3	564.0	559.2	553.0	549.9	548.5
170°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	559.2	553.0	549.9	549.8
172.5°	561.0	560.7	559.6	558.4	559.6	560.7	561.0	557.3	552.4	549.9	549.9
175°	556.9	556.9	556.9	556.9	556.9	556.9	556.9	554.6	551.5	549.9	550.6
177.5°	556.2	555.8	554.6	553.2	554.6	555.8	556.2	554.3	551.8	550.6	551.2
180°	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2	553.2



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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°	16.3	10.4	9.6	6.7	3.7
92.5°	100.8	71.7	65.3	40.1	14.8
95°	247.9	139.6	128.1	81.9	35.6
97.5°	333.9	153.4	143.2	102.4	61.6
100°	365.3	164.9	155.6	118.6	81.7
102.5°	379.6	176.4	167.7	133.3	98.7
105°	390.3	193.4	186.1	156.9	127.7
107.5°	392.2	218.7	211.9	184.7	157.5
110°	389.2	232.8	226.6	202.1	177.5



TEST NUMBER: P935233

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	389.4	249.8	244.0	220.6	197.2
115°	392.9	275.5	270.0	248.4	226.8
117.5°	400.3	300.4	295.5	275.8	256.2
120°	406.1	314.8	310.2	291.7	273.2
122.5°	414.7	332.0	327.3	308.7	290.0
125°	426.2	353.8	349.5	332.6	315.6
127.5°	437.7	375.0	370.7	353.5	336.3
130°	446.1	389.1	384.5	366.0	347.5
132.5°	452.9	400.6	396.0	377.5	359.0
135°	460.4	414.0	409.8	392.9	376.2
137.5°	471.5	431.0	426.9	410.2	393.6
140°	478.4	442.6	438.7	423.4	408.0
142.5°	484.1	451.1	447.6	433.4	419.2
145°	491.5	464.1	460.9	448.6	436.2
147.5°	502.4	480.4	477.4	465.4	453.4
150°	508.1	489.0	486.2	475.3	464.4
152.5°	511.7	494.5	492.5	484.2	475.9
155°	520.0	506.8	505.3	499.2	493.1
157.5°	528.1	519.1	517.5	511.6	505.7
160°	531.8	524.6	523.4	518.9	514.2
162.5°	535.8	530.6	529.7	526.2	522.7
165°	541.5	539.1	538.2	535.1	532.0
167.5°	545.9	544.0	543.6	542.1	540.6
170°	549.6	549.5	549.1	547.6	546.2
172.5°	549.9	549.9	549.8	549.5	549.1
175°	552.1	553.2	553.2	553.2	553.2
177.5°	552.4	553.2	553.2	553.2	553.2
180°	553.2	553.2	553.2	553.2	553.2



TEST NUMBER: P935233

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

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	13.06	13.89	14.03	14.89	16.19	15.85	16.69	16.83	17.68	18.99
	3H	13.53	14.28	14.52	15.28	16.61	17.19	17.94	18.18	18.94	20.27
	4H	13.72	14.43	14.72	15.44	16.77	17.62	18.33	18.63	19.34	20.68
	6H	13.84	14.49	14.85	15.50	16.85	17.90	18.55	18.91	19.56	20.91
	8H	13.84	14.46	14.86	15.49	16.84	17.97	18.59	18.99	19.62	20.96
	12H	13.81	14.40	14.84	15.42	16.79	18.00	18.60	19.03	19.62	20.99
4H	2H	14.08	14.79	15.09	15.79	17.13	16.26	16.97	17.27	17.98	19.31
	3H	15.10	15.69	16.12	16.73	18.08	17.76	18.35	18.77	19.38	20.73
	4H	15.38	15.92	16.40	16.95	18.32	18.28	18.82	19.30	19.84	21.22
	6H	15.50	15.97	16.54	17.02	18.39	18.63	19.10	19.67	20.15	21.52
	8H	15.51	15.94	16.54	16.98	18.37	18.73	19.17	19.77	20.21	21.60
	12H	15.47	15.87	16.53	16.92	18.31	18.78	19.18	19.84	20.23	21.62
8H	4H	15.82	16.26	16.86	17.30	18.69	18.40	18.83	19.44	19.88	21.26
	6H	16.09	16.44	17.15	17.53	18.91	18.83	19.19	19.89	20.27	21.65
	8H	16.13	16.44	17.20	17.51	18.91	18.97	19.29	20.04	20.36	21.76
	12H	16.11	16.39	17.18	17.45	18.90	19.06	19.34	20.14	20.41	21.85
12H	4H	15.83	16.22	16.88	17.28	18.67	18.36	18.76	19.42	19.81	21.20
	6H	16.14	16.46	17.21	17.53	18.93	18.82	19.14	19.89	20.21	21.61
	8H	16.21	16.49	17.28	17.55	18.99	18.98	19.26	20.05	20.32	21.76