

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: P934060

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934060
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

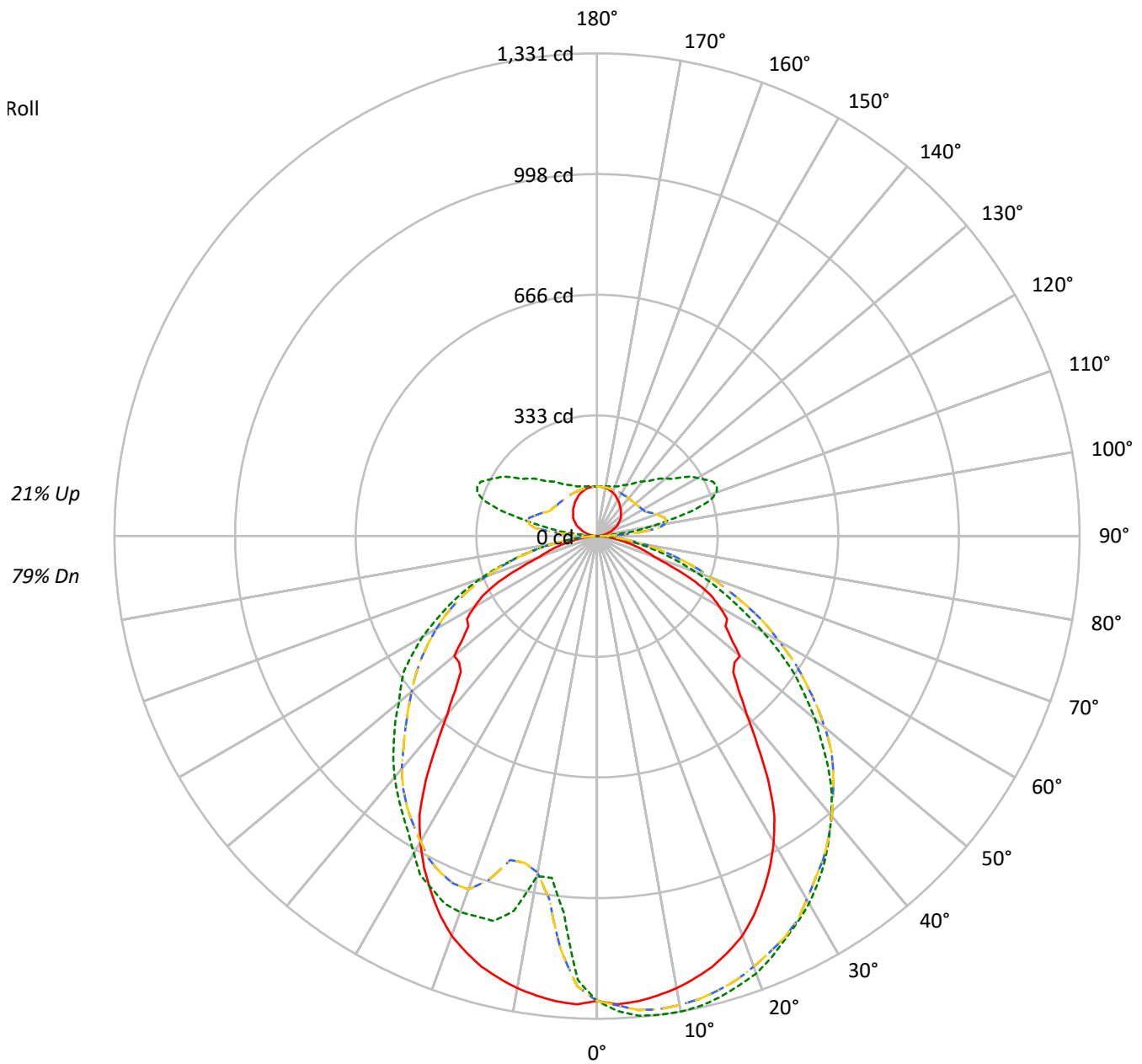
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.3 lumens
Efficiency: N/A
Efficacy: 108.5 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: Semi-Direct

Input Watts (W): 38.8
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: P934060
CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11892	11892	11892	11892
5°	11968	12005	11968	9440
10°	11875	11825	11875	8454
15°	11732	11569	11732	9660
20°	11473	11265	11473	9680
25°	10959	10822	10959	9476
30°	10297	10456	10297	9025
35°	9166	9991	9166	8531
40°	7625	9444	7625	8156
45°	6800	8803	6800	7726
50°	7207	8039	7207	7295
55°	6762	7216	6762	7045
60°	6945	6128	6945	6452
65°	6266	5065	6266	5664
70°	4311	4037	4311	4747
75°	3738	2983	3738	3574
80°	2948	1973	2948	2148
85°	1606	1045	1606	888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10441 cd/sqm



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CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	2.7
10°-20°	328.5	7.8
20°-30°	507.8	12.1
30°-40°	606.1	14.4
40°-50°	609.7	14.5
50°-60°	530.5	12.6
60°-70°	376.1	8.9
70°-80°	199.0	4.7
80°-90°	50.1	1.2
90°-100°	66.8	1.6
100°-110°	175.5	4.2
110°-120°	182.0	4.3
120°-130°	146.0	3.5
130°-140°	114.5	2.7
140°-150°	87.9	2.1
150°-160°	63.3	1.5
160°-170°	38.7	0.9
170°-180°	13.1	0.3
0°-30°	951.9	22.6
0°-40°	1558.1	37.0
0°-60°	2698.3	64.1
0°-90°	3323.5	78.9
90°-120°	424.3	10.1
90°-150°	772.7	18.3
90°-180°	888.0	21.1
0°-180°	4211.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1282	1282	1282	1282	1282	
5°	1288	1328	1288	1044	1288	122
15°	1229	1316	1229	1098	1229	346
25°	1083	1227	1083	1074	1083	497
35°	823	1095	823	935	823	509
45°	531	902	531	792	531	425
55°	433	666	433	650	433	398
65°	301	401	301	449	301	287
75°	114	190	114	228	114	120
85°	19	48	19	41	19	26
90°	1	4	1	4	1	2
95°	9	40	9	40	9	10
105°	32	275	32	275	32	34
115°	56	354	56	354	56	55
125°	78	282	78	282	78	69
135°	93	219	93	219	93	72
145°	108	177	108	177	108	68
155°	122	153	122	153	122	56
165°	132	142	132	142	132	37
175°	137	138	137	138	137	13
180°	137	137	137	137	137	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1292.5	1292.5	1299.8	1302.2	1302.2	1298.5	1295.0	1298.5	1309.5	1313.1	1311.9
5°	1287.7	1297.3	1310.7	1313.1	1315.5	1314.3	1311.9	1314.3	1326.4	1328.9	1330.1
7.5°	1278.0	1296.2	1313.1	1316.8	1320.4	1316.8	1315.5	1318.0	1330.1	1332.5	1332.5
10°	1265.9	1291.3	1310.7	1313.1	1316.8	1313.1	1313.1	1318.0	1330.1	1332.5	1333.8
12.5°	1248.9	1284.0	1302.2	1304.7	1309.5	1308.3	1307.1	1311.9	1324.1	1326.4	1326.4
15°	1229.4	1270.7	1287.7	1290.1	1298.5	1296.2	1296.2	1301.0	1314.3	1318.0	1316.8
17.5°	1202.8	1253.8	1273.1	1276.8	1282.8	1281.6	1282.8	1287.7	1299.8	1302.2	1303.4
20°	1172.4	1230.7	1253.8	1257.3	1263.4	1263.4	1263.4	1269.4	1281.6	1286.4	1286.4
22.5°	1131.2	1206.4	1230.7	1233.1	1240.4	1240.4	1242.8	1251.3	1262.2	1263.4	1263.4
25°	1082.8	1179.8	1200.3	1207.7	1214.9	1218.5	1222.2	1227.0	1230.7	1229.4	1230.7
27.5°	1031.9	1145.8	1172.4	1177.3	1187.0	1190.7	1195.5	1196.8	1198.0	1201.5	1199.2
30°	974.9	1098.5	1138.5	1143.4	1159.1	1161.5	1156.8	1159.1	1165.2	1167.7	1170.1
32.5°	910.5	1028.2	1103.3	1114.3	1128.9	1121.5	1120.3	1124.0	1133.7	1133.7	1136.1
35°	823.3	973.7	1070.7	1080.3	1091.2	1082.8	1087.6	1088.8	1094.9	1098.5	1097.3
37.5°	727.5	926.3	1036.7	1044.0	1052.4	1041.5	1048.8	1052.4	1057.3	1054.9	1054.9
40°	642.7	852.4	996.7	1001.5	1008.8	1000.3	1007.5	1010.0	1012.4	1010.0	1008.8
42.5°	579.6	771.1	954.2	960.3	955.4	961.5	963.9	968.8	965.1	960.3	960.3
45°	531.1	749.3	908.2	915.4	908.2	917.9	921.5	921.5	910.5	908.2	907.0
47.5°	515.3	705.7	862.1	862.1	858.4	870.5	876.7	868.1	857.2	853.6	853.6
50°	514.1	657.2	799.0	794.2	811.2	825.7	819.7	811.2	802.7	789.3	789.3
52.5°	466.8	597.8	717.8	736.0	762.7	771.1	761.4	753.0	738.4	732.3	727.5
55°	432.9	535.9	643.9	680.2	708.1	719.0	700.8	692.3	670.5	666.9	664.4
57.5°	425.6	446.2	575.9	622.0	656.0	654.8	643.9	628.1	609.9	606.2	605.0
60°	390.4	322.5	503.2	557.8	592.9	589.3	579.6	565.0	548.0	545.7	543.2
62.5°	354.0	234.0	420.8	482.6	532.3	531.1	522.6	500.8	488.7	482.6	477.8
65°	300.7	196.4	299.4	401.3	472.9	475.3	457.1	441.3	428.0	420.8	419.5
67.5°	229.1	160.0	202.4	334.7	415.9	413.4	390.4	383.1	366.2	362.5	355.2
70°	169.8	106.7	140.7	271.6	360.1	354.0	335.9	327.3	311.6	303.1	298.3
72.5°	140.7	86.1	103.1	211.0	303.1	295.9	280.1	270.4	257.0	249.8	244.9
75°	114.0	90.9	78.8	156.4	246.1	241.3	226.8	217.0	206.1	196.4	197.7
77.5°	83.7	84.9	63.0	115.2	195.2	187.9	179.4	167.3	162.4	152.8	152.8
80°	63.0	66.7	47.3	78.8	140.7	140.7	133.3	124.9	116.4	111.6	111.6
82.5°	42.4	42.4	35.1	49.7	95.8	92.1	87.3	84.9	80.0	77.6	77.6
85°	19.4	24.2	21.8	30.3	52.1	54.6	54.6	52.1	50.9	48.5	49.7
87.5°	6.1	10.9	13.3	17.0	26.7	27.9	29.1	29.1	29.1	30.3	30.3
90°	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7	3.5	3.5
92.5°	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8	17.4	16.7
95°	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8	59.3	57.2
97.5°	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6	136.8	132.8
100°	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3	192.2	187.4
102.5°	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5	239.4	235.3
105°	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1	294.6	292.4
107.5°	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5	323.3	323.9
110°	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3	330.6	332.9



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5	326.0	329.5
115°	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5	310.0	314.9
117.5°	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5	288.1	293.5
120°	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8	273.3	278.5
122.5°	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2	258.4	263.6
125°	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4	238.9	243.6
127.5°	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3	223.2	227.2
130°	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4	213.3	216.9
132.5°	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5	204.8	208.1
135°	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2	192.8	195.7
137.5°	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2	184.0	186.4
140°	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3	176.9	179.1
142.5°	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0	172.0	173.9
145°	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7	164.5	166.0
147.5°	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6	158.3	159.5
150°	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2	154.7	155.6
152.5°	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3	151.9	152.6
155°	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1	148.5	148.9
157.5°	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1	145.5	145.8
160°	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0	144.0	144.2
162.5°	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1	142.6	142.8
165°	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8	140.5	140.7
167.5°	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4	139.6	139.7
170°	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4	139.6	139.6
172.5°	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9	138.8	138.8
175°	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3	137.8	137.8
177.5°	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2	137.7	137.6
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1314.3	1310.7	1314.3	1311.9	1313.1	1309.5	1298.5	1295.0	1298.5	1302.2	1302.2
5°	1330.1	1327.7	1330.1	1330.1	1328.9	1326.4	1314.3	1311.9	1314.3	1315.5	1313.1
7.5°	1335.0	1331.3	1335.0	1332.5	1332.5	1330.1	1318.0	1315.5	1316.8	1320.4	1316.8
10°	1335.0	1331.3	1335.0	1333.8	1332.5	1330.1	1318.0	1313.1	1313.1	1316.8	1313.1
12.5°	1328.9	1326.4	1328.9	1326.4	1326.4	1324.1	1311.9	1307.1	1308.3	1309.5	1304.7
15°	1319.2	1315.5	1319.2	1316.8	1318.0	1314.3	1301.0	1296.2	1296.2	1298.5	1290.1
17.5°	1304.7	1299.8	1304.7	1303.4	1302.2	1299.8	1287.7	1282.8	1281.6	1282.8	1276.8
20°	1287.7	1284.0	1287.7	1286.4	1286.4	1281.6	1269.4	1263.4	1263.4	1263.4	1257.3
22.5°	1261.0	1257.3	1261.0	1263.4	1263.4	1262.2	1251.3	1242.8	1240.4	1240.4	1233.1
25°	1230.7	1227.0	1230.7	1230.7	1229.4	1230.7	1227.0	1222.2	1218.5	1214.9	1207.7
27.5°	1201.5	1199.2	1201.5	1199.2	1201.5	1198.0	1196.8	1195.5	1190.7	1187.0	1177.3
30°	1172.4	1170.1	1172.4	1170.1	1167.7	1165.2	1159.1	1156.8	1161.5	1159.1	1143.4
32.5°	1136.1	1133.7	1136.1	1136.1	1133.7	1133.7	1124.0	1120.3	1121.5	1128.9	1114.3
35°	1098.5	1094.9	1098.5	1097.3	1098.5	1094.9	1088.8	1087.6	1082.8	1091.2	1080.3
37.5°	1054.9	1051.2	1054.9	1054.9	1054.9	1057.3	1052.4	1048.8	1041.5	1052.4	1044.0
40°	1010.0	1005.2	1010.0	1008.8	1010.0	1012.4	1010.0	1007.5	1000.3	1008.8	1001.5
42.5°	959.1	957.9	959.1	960.3	960.3	965.1	968.8	963.9	961.5	955.4	960.3
45°	904.5	902.1	904.5	907.0	908.2	910.5	921.5	921.5	917.9	908.2	915.4
47.5°	846.3	840.2	846.3	853.6	853.6	857.2	868.1	876.7	870.5	858.4	862.1
50°	784.4	785.7	784.4	789.3	789.3	802.7	811.2	819.7	825.7	811.2	794.2
52.5°	723.9	722.7	723.9	727.5	732.3	738.4	753.0	761.4	771.1	762.7	736.0
55°	663.2	665.7	663.2	664.4	666.9	670.5	692.3	700.8	719.0	708.1	680.2
57.5°	602.7	599.0	602.7	605.0	606.2	609.9	628.1	643.9	654.8	656.0	622.0
60°	532.3	527.4	532.3	543.2	545.7	548.0	565.0	579.6	589.3	592.9	557.8
62.5°	470.4	462.0	470.4	477.8	482.6	488.7	500.8	522.6	531.1	532.3	482.6
65°	405.0	401.3	405.0	419.5	420.8	428.0	441.3	457.1	475.3	472.9	401.3
67.5°	345.6	345.6	345.6	355.2	362.5	366.2	383.1	390.4	413.4	415.9	334.7
70°	291.0	289.8	291.0	298.3	303.1	311.6	327.3	335.9	354.0	360.1	271.6
72.5°	238.9	237.7	238.9	244.9	249.8	257.0	270.4	280.1	295.9	303.1	211.0
75°	192.8	190.3	192.8	197.7	196.4	206.1	217.0	226.8	241.3	246.1	156.4
77.5°	147.9	147.9	147.9	152.8	152.8	162.4	167.3	179.4	187.9	195.2	115.2
80°	110.3	109.1	110.3	111.6	111.6	116.4	124.9	133.3	140.7	140.7	78.8
82.5°	77.6	75.2	77.6	77.6	77.6	80.0	84.9	87.3	92.1	95.8	49.7
85°	48.5	48.5	48.5	49.7	48.5	50.9	52.1	54.6	54.6	52.1	30.3
87.5°	31.6	30.3	31.6	30.3	30.3	29.1	29.1	29.1	27.9	26.7	17.0
90°	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0	4.0	2.6
92.5°	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6	25.0	17.7
95°	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1	61.4	34.6
97.5°	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2	82.7	38.0
100°	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6	90.4	40.8
102.5°	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1	94.0	43.7
105°	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5	96.6	47.9
107.5°	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4	97.1	54.1
110°	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0	96.4	57.6



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4	96.4	61.9
115°	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1	97.3	68.2
117.5°	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1	99.1	74.3
120°	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7	100.5	77.9
122.5°	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9	102.6	82.1
125°	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4	105.5	87.6
127.5°	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0	108.4	92.9
130°	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3	110.5	96.4
132.5°	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4	112.1	99.2
135°	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3	114.0	102.5
137.5°	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0	116.7	106.7
140°	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2	118.4	109.6
142.5°	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7	119.9	111.7
145°	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7	121.7	114.9
147.5°	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6	124.3	118.9
150°	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1	125.7	121.0
152.5°	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3	126.6	122.4
155°	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0	128.7	125.4
157.5°	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7	130.7	128.5
160°	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0	131.6	129.9
162.5°	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4	132.6	131.3
165°	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8	134.0	133.4
167.5°	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7	135.1	134.6
170°	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1	136.0	136.0
172.5°	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3	136.6	136.9
177.5°	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5	136.7	136.9
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1299.8	1292.5	1292.5	1280.4	1275.5	1271.9	1265.9	1247.7	1242.8	1238.0	1245.2
5°	1310.7	1297.3	1287.7	1265.9	1247.7	1240.4	1217.3	1173.7	1144.5	1122.8	1110.7
7.5°	1313.1	1296.2	1278.0	1244.0	1200.3	1181.0	1110.7	1030.7	1008.8	989.4	977.3
10°	1310.7	1291.3	1265.9	1214.9	1111.9	1077.9	1007.5	955.4	942.1	938.4	942.1
12.5°	1302.2	1284.0	1248.9	1164.0	1019.7	996.7	955.4	925.1	922.7	928.8	961.5
15°	1287.7	1270.7	1229.4	1096.1	968.8	951.8	922.7	911.8	925.1	967.5	1065.8
17.5°	1273.1	1253.8	1202.8	1029.4	930.0	917.9	897.2	919.1	994.2	1051.2	1084.0
20°	1253.8	1230.7	1172.4	980.9	902.1	891.2	881.4	979.7	1036.7	1057.3	1075.4
22.5°	1230.7	1206.4	1131.2	947.0	873.0	864.5	870.5	1013.7	1036.7	1051.2	1067.0
25°	1200.3	1179.8	1082.8	920.3	850.0	840.2	863.3	1010.0	1023.3	1027.0	1058.5
27.5°	1172.4	1145.8	1031.9	896.0	822.1	818.4	869.3	994.2	1004.0	1007.5	1041.5
30°	1138.5	1098.5	974.9	870.5	793.0	791.8	870.5	974.9	972.4	982.1	1016.1
32.5°	1103.3	1028.2	910.5	839.0	765.1	763.9	862.1	945.8	943.3	956.7	982.1
35°	1070.7	973.7	823.3	802.7	729.9	731.1	841.4	911.8	913.0	925.1	940.9
37.5°	1036.7	926.3	727.5	762.7	696.0	696.0	813.5	880.3	877.9	881.4	903.3
40°	996.7	852.4	642.7	710.5	664.4	660.8	779.7	846.3	837.9	836.7	866.9
42.5°	954.2	771.1	579.6	641.4	628.1	623.2	738.4	805.1	789.3	793.0	831.8
45°	908.2	749.3	531.1	542.0	590.4	586.9	693.5	757.8	746.9	756.6	796.7
47.5°	862.1	705.7	515.3	449.9	550.4	549.2	643.9	711.8	705.7	715.3	757.8
50°	799.0	657.2	514.1	385.6	505.6	510.4	584.4	666.9	666.9	675.3	720.2
52.5°	717.8	597.8	466.8	349.2	453.4	468.0	532.3	628.1	630.5	639.0	679.0
55°	643.9	535.9	432.9	321.3	391.7	423.1	481.3	588.1	592.9	601.4	637.8
57.5°	575.9	446.2	425.6	288.6	334.7	365.0	436.5	549.2	551.7	559.0	594.1
60°	503.2	322.5	390.4	253.4	284.9	308.0	395.3	503.2	511.7	516.5	546.9
62.5°	420.8	234.0	354.0	229.1	260.7	265.6	361.3	459.5	470.4	474.1	492.3
65°	299.4	196.4	300.7	208.6	235.2	236.4	325.0	414.7	424.3	430.4	443.8
67.5°	202.4	160.0	229.1	189.1	215.8	217.0	289.8	362.5	375.9	380.8	389.2
70°	140.7	106.7	169.8	168.6	194.0	196.4	252.2	315.2	327.3	331.0	335.9
72.5°	103.1	86.1	140.7	151.6	171.0	173.4	213.4	261.9	274.0	277.7	280.1
75°	78.8	90.9	114.0	132.1	145.5	146.7	174.6	213.4	221.9	224.3	225.5
77.5°	63.0	84.9	83.7	106.7	118.8	116.4	137.0	164.9	172.2	172.2	172.2
80°	47.3	66.7	63.0	76.4	87.3	84.9	98.2	117.6	120.0	122.4	121.2
82.5°	35.1	42.4	42.4	48.5	58.2	55.8	65.4	76.4	76.4	76.4	78.8
85°	21.8	24.2	19.4	25.4	32.8	31.6	36.3	41.2	42.4	42.4	40.0
87.5°	13.3	10.9	6.1	9.7	14.6	14.6	17.0	18.2	17.0	17.0	17.0
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7
92.5°	16.2	9.9	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8
95°	31.8	20.3	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8
97.5°	35.4	25.3	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6
100°	38.5	29.4	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3
102.5°	41.6	32.9	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5
105°	46.1	38.9	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1
107.5°	52.5	45.7	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5
110°	56.1	50.0	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	60.4	54.6	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5
115°	66.8	61.5	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5
117.5°	73.1	68.3	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5
120°	76.8	72.2	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8
122.5°	80.9	76.4	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2
125°	86.5	82.3	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4
127.5°	91.8	87.5	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3
130°	95.2	90.6	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4
132.5°	98.1	93.5	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5
135°	101.5	97.3	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2
137.5°	105.7	101.6	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2
140°	108.7	104.8	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3
142.5°	110.8	107.3	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0
145°	114.2	111.0	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7
147.5°	118.2	115.2	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6
150°	120.4	117.6	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2
152.5°	121.9	119.9	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3
155°	125.1	123.5	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1
157.5°	128.1	126.6	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1
160°	129.6	128.4	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0
162.5°	131.1	130.2	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1
165°	133.2	132.4	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8
167.5°	134.5	134.2	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4
170°	135.9	135.5	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4
172.5°	136.1	136.0	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9
175°	136.9	136.9	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3
177.5°	136.9	136.9	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1236.8	1233.1	1238.0	1224.6	1238.0	1233.1	1236.8	1245.2	1238.0	1242.8	1247.7
5°	1085.2	1079.1	1059.8	1044.0	1059.8	1079.1	1085.2	1110.7	1122.8	1144.5	1173.7
7.5°	970.0	965.1	960.3	950.5	960.3	965.1	970.0	977.3	989.4	1008.8	1030.7
10°	944.5	945.8	953.0	951.8	953.0	945.8	944.5	942.1	938.4	942.1	955.4
12.5°	1010.0	1020.9	1060.9	1058.5	1060.9	1020.9	1010.0	961.5	928.8	922.7	925.1
15°	1085.2	1088.8	1097.3	1098.5	1097.3	1088.8	1085.2	1065.8	967.5	925.1	911.8
17.5°	1092.4	1093.7	1099.8	1099.8	1099.8	1093.7	1092.4	1084.0	1051.2	994.2	919.1
20°	1086.4	1088.8	1101.0	1103.3	1101.0	1088.8	1086.4	1075.4	1057.3	1036.7	979.7
22.5°	1084.0	1088.8	1098.5	1097.3	1098.5	1088.8	1084.0	1067.0	1051.2	1036.7	1013.7
25°	1071.9	1071.9	1073.1	1074.3	1073.1	1071.9	1071.9	1058.5	1027.0	1023.3	1010.0
27.5°	1046.4	1048.8	1056.1	1054.9	1056.1	1048.8	1046.4	1041.5	1007.5	1004.0	994.2
30°	1023.3	1020.9	1014.9	1010.0	1014.9	1020.9	1023.3	1016.1	982.1	972.4	974.9
32.5°	984.5	978.4	972.4	968.8	972.4	978.4	984.5	982.1	956.7	943.3	945.8
35°	938.4	939.7	938.4	934.9	938.4	939.7	938.4	940.9	925.1	913.0	911.8
37.5°	905.8	908.2	907.0	902.1	907.0	908.2	905.8	903.3	881.4	877.9	880.3
40°	871.8	873.0	871.8	868.1	871.8	873.0	871.8	866.9	836.7	837.9	846.3
42.5°	839.0	837.9	834.2	831.8	834.2	837.9	839.0	831.8	793.0	789.3	805.1
45°	801.4	802.7	795.4	791.8	795.4	802.7	801.4	796.7	756.6	746.9	757.8
47.5°	763.9	763.9	757.8	754.2	757.8	763.9	763.9	757.8	715.3	705.7	711.8
50°	723.9	722.7	714.2	713.0	714.2	722.7	723.9	720.2	675.3	666.9	666.9
52.5°	677.8	677.8	679.0	681.4	679.0	677.8	677.8	679.0	639.0	630.5	628.1
55°	637.8	639.0	647.4	649.9	647.4	639.0	637.8	637.8	601.4	592.9	588.1
57.5°	596.5	596.5	602.7	602.7	602.7	596.5	596.5	594.1	559.0	551.7	549.2
60°	549.2	551.7	556.5	555.3	556.5	551.7	549.2	546.9	516.5	511.7	503.2
62.5°	499.5	502.0	503.2	500.8	503.2	502.0	499.5	492.3	474.1	470.4	459.5
65°	447.4	449.9	451.0	448.7	451.0	449.9	447.4	443.8	430.4	424.3	414.7
67.5°	394.1	392.9	391.7	396.4	391.7	392.9	394.1	389.2	380.8	375.9	362.5
70°	339.5	339.5	338.3	340.7	338.3	339.5	339.5	335.9	331.0	327.3	315.2
72.5°	281.3	280.1	284.9	281.3	284.9	280.1	281.3	280.1	277.7	274.0	261.9
75°	224.3	226.8	224.3	228.0	224.3	226.8	224.3	225.5	224.3	221.9	213.4
77.5°	171.0	173.4	171.0	171.0	171.0	173.4	171.0	172.2	172.2	172.2	164.9
80°	121.2	120.0	120.0	118.8	120.0	120.0	121.2	121.2	122.4	120.0	117.6
82.5°	77.6	76.4	76.4	78.8	76.4	76.4	77.6	78.8	76.4	76.4	76.4
85°	42.4	43.7	41.2	41.2	41.2	43.7	42.4	40.0	42.4	42.4	41.2
87.5°	15.8	14.6	14.6	14.6	14.6	14.6	15.8	17.0	17.0	17.0	18.2
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0
92.5°	17.4	16.7	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6
95°	59.3	57.2	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1
97.5°	136.8	132.8	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2
100°	192.2	187.4	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6
102.5°	239.4	235.3	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1
105°	294.6	292.4	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5
107.5°	323.3	323.9	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4
110°	330.6	332.9	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	326.0	329.5	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4
115°	310.0	314.9	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1
117.5°	288.1	293.5	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1
120°	273.3	278.5	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7
122.5°	258.4	263.6	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9
125°	238.9	243.6	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4
127.5°	223.2	227.2	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0
130°	213.3	216.9	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3
132.5°	204.8	208.1	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4
135°	192.8	195.7	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3
137.5°	184.0	186.4	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0
140°	176.9	179.1	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2
142.5°	172.0	173.9	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7
145°	164.5	166.0	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7
147.5°	158.3	159.5	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6
150°	154.7	155.6	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1
152.5°	151.9	152.6	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3
155°	148.5	148.9	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0
157.5°	145.5	145.8	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7
160°	144.0	144.2	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0
162.5°	142.6	142.8	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4
165°	140.5	140.7	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8
167.5°	139.6	139.7	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7
170°	139.6	139.6	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1
172.5°	138.8	138.8	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3
177.5°	137.7	137.6	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1265.9	1271.9	1275.5	1280.4	1292.5
5°	1217.3	1240.4	1247.7	1265.9	1287.7
7.5°	1110.7	1181.0	1200.3	1244.0	1278.0
10°	1007.5	1077.9	1111.9	1214.9	1265.9
12.5°	955.4	996.7	1019.7	1164.0	1248.9
15°	922.7	951.8	968.8	1096.1	1229.4
17.5°	897.2	917.9	930.0	1029.4	1202.8
20°	881.4	891.2	902.1	980.9	1172.4
22.5°	870.5	864.5	873.0	947.0	1131.2
25°	863.3	840.2	850.0	920.3	1082.8
27.5°	869.3	818.4	822.1	896.0	1031.9
30°	870.5	791.8	793.0	870.5	974.9
32.5°	862.1	763.9	765.1	839.0	910.5
35°	841.4	731.1	729.9	802.7	823.3
37.5°	813.5	696.0	696.0	762.7	727.5
40°	779.7	660.8	664.4	710.5	642.7
42.5°	738.4	623.2	628.1	641.4	579.6
45°	693.5	586.9	590.4	542.0	531.1
47.5°	643.9	549.2	550.4	449.9	515.3
50°	584.4	510.4	505.6	385.6	514.1
52.5°	532.3	468.0	453.4	349.2	466.8
55°	481.3	423.1	391.7	321.3	432.9
57.5°	436.5	365.0	334.7	288.6	425.6
60°	395.3	308.0	284.9	253.4	390.4
62.5°	361.3	265.6	260.7	229.1	354.0
65°	325.0	236.4	235.2	208.6	300.7
67.5°	289.8	217.0	215.8	189.1	229.1
70°	252.2	196.4	194.0	168.6	169.8
72.5°	213.4	173.4	171.0	151.6	140.7
75°	174.6	146.7	145.5	132.1	114.0
77.5°	137.0	116.4	118.8	106.7	83.7
80°	98.2	84.9	87.3	76.4	63.0
82.5°	65.4	55.8	58.2	48.5	42.4
85°	36.3	31.6	32.8	25.4	19.4
87.5°	17.0	14.6	14.6	9.7	6.1
90°	4.0	2.6	2.4	1.7	0.9
92.5°	25.0	17.7	16.2	9.9	3.7
95°	61.4	34.6	31.8	20.3	8.8
97.5°	82.7	38.0	35.4	25.3	15.2
100°	90.4	40.8	38.5	29.4	20.2
102.5°	94.0	43.7	41.6	32.9	24.4
105°	96.6	47.9	46.1	38.9	31.7
107.5°	97.1	54.1	52.5	45.7	39.0
110°	96.4	57.6	56.1	50.0	44.0



TEST NUMBER: P934060

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	96.4	61.9	60.4	54.6	48.8
115°	97.3	68.2	66.8	61.5	56.2
117.5°	99.1	74.3	73.1	68.3	63.4
120°	100.5	77.9	76.8	72.2	67.6
122.5°	102.6	82.1	80.9	76.4	71.8
125°	105.5	87.6	86.5	82.3	78.1
127.5°	108.4	92.9	91.8	87.5	83.2
130°	110.5	96.4	95.2	90.6	86.0
132.5°	112.1	99.2	98.1	93.5	88.9
135°	114.0	102.5	101.5	97.3	93.1
137.5°	116.7	106.7	105.7	101.6	97.5
140°	118.4	109.6	108.7	104.8	101.0
142.5°	119.9	111.7	110.8	107.3	103.8
145°	121.7	114.9	114.2	111.0	108.0
147.5°	124.3	118.9	118.2	115.2	112.2
150°	125.7	121.0	120.4	117.6	115.0
152.5°	126.6	122.4	121.9	119.9	117.8
155°	128.7	125.4	125.1	123.5	122.1
157.5°	130.7	128.5	128.1	126.6	125.2
160°	131.6	129.9	129.6	128.4	127.3
162.5°	132.6	131.3	131.1	130.2	129.4
165°	134.0	133.4	133.2	132.4	131.7
167.5°	135.1	134.6	134.5	134.2	133.8
170°	136.0	136.0	135.9	135.5	135.2
172.5°	136.1	136.1	136.1	136.0	135.9
175°	136.6	136.9	136.9	136.9	136.9
177.5°	136.7	136.9	136.9	136.9	136.9
180°	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P934060
 CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-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	15.73	16.93	16.39	17.61	18.39	18.53	19.73	19.19	20.40	21.19
	3H	16.23	17.31	16.91	18.00	18.82	19.89	20.97	20.56	21.65	22.48
	4H	16.44	17.45	17.13	18.15	18.99	20.34	21.36	21.04	22.06	22.89
	6H	16.57	17.51	17.28	18.22	19.07	20.64	21.57	21.34	22.28	23.13
	8H	16.59	17.48	17.30	18.21	19.06	20.72	21.61	21.43	22.34	23.19
	12H	16.57	17.42	17.29	18.14	19.02	20.76	21.61	21.49	22.34	23.22
4H	2H	16.80	17.81	17.49	18.51	19.35	18.98	19.99	19.68	20.69	21.53
	3H	17.85	18.70	18.56	19.44	20.29	20.51	21.35	21.22	22.09	22.94
	4H	18.14	18.91	18.87	19.65	20.53	21.04	21.81	21.77	22.55	23.43
	6H	18.29	18.95	19.03	19.72	20.61	21.42	22.08	22.16	22.85	23.74
	8H	18.30	18.92	19.05	19.68	20.59	21.53	22.15	22.28	22.91	23.81
	12H	18.28	18.84	19.05	19.63	20.54	21.59	22.15	22.37	22.94	23.85
8H	4H	18.62	19.24	19.37	20.00	20.90	21.19	21.82	21.94	22.58	23.48
	6H	18.89	19.41	19.67	20.21	21.12	21.63	22.15	22.42	22.95	23.86
	8H	18.94	19.40	19.73	20.20	21.12	21.79	22.24	22.58	23.05	23.97
	12H	18.94	19.34	19.73	20.14	21.12	21.89	22.30	22.69	23.09	24.07
12H	4H	18.64	19.20	19.41	19.98	20.89	21.17	21.73	21.94	22.52	23.43
	6H	18.95	19.42	19.75	20.22	21.14	21.63	22.09	22.43	22.90	23.82
	8H	19.04	19.44	19.83	20.24	21.22	21.81	22.21	22.60	23.01	23.99