

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: P934057

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934057
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

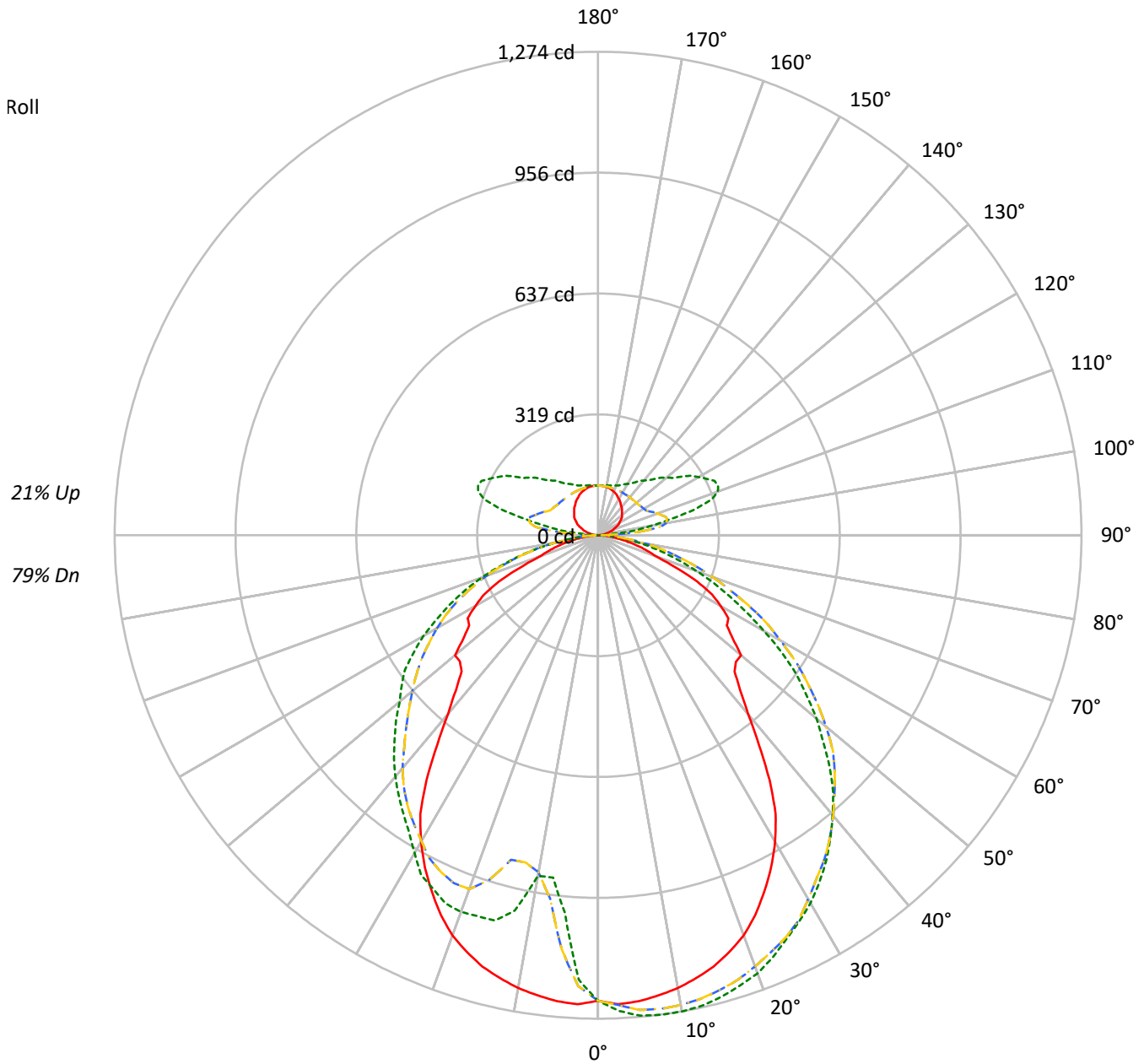
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4030.5 lumens
Efficiency: N/A
Efficacy: 103.9 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: P934057
CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

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°	11381	11381	11381	11381
5°	11454	11490	11454	9035
10°	11365	11318	11365	8092
15°	11229	11072	11229	9245
20°	10981	10782	10981	9265
25°	10488	10358	10488	9068
30°	9855	10006	9855	8638
35°	8772	9562	8772	8164
40°	7298	9038	7298	7806
45°	6508	8425	6508	7395
50°	6897	7694	6897	6982
55°	6471	6906	6471	6742
60°	6646	5865	6646	6175
65°	5998	4848	5998	5420
70°	4125	3865	4125	4543
75°	3578	2856	3578	3421
80°	2822	1888	2822	2056
85°	1532	1000	1532	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9993 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	2.7
10°-20°	314.4	7.8
20°-30°	486.0	12.1
30°-40°	580.1	14.4
40°-50°	583.5	14.5
50°-60°	507.7	12.6
60°-70°	360.0	8.9
70°-80°	190.5	4.7
80°-90°	47.9	1.2
90°-100°	63.9	1.6
100°-110°	168.0	4.2
110°-120°	174.2	4.3
120°-130°	139.7	3.5
130°-140°	109.6	2.7
140°-150°	84.1	2.1
150°-160°	60.6	1.5
160°-170°	37.1	0.9
170°-180°	12.5	0.3
0°-30°	911.0	22.6
0°-40°	1491.2	37.0
0°-60°	2582.4	64.1
0°-90°	3180.8	78.9
90°-120°	406.0	10.1
90°-150°	739.5	18.3
90°-180°	850.0	21.1
0°-180°	4030.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1226	1226	1226	1226	1226	
5°	1232	1271	1232	999	1232	117
15°	1177	1259	1177	1051	1177	331
25°	1036	1174	1036	1028	1036	476
35°	788	1048	788	895	788	487
45°	508	863	508	758	508	407
55°	414	637	414	622	414	381
65°	288	384	288	429	288	275
75°	109	182	109	218	109	115
85°	18	46	18	39	18	25
90°	1	3	1	3	1	2
95°	8	39	8	39	8	9
105°	30	263	30	263	30	32
115°	54	339	54	339	54	53
125°	75	270	75	270	75	66
135°	89	209	89	209	89	69
145°	103	170	103	170	103	65
155°	117	146	117	146	117	54
165°	126	136	126	136	126	36
175°	131	132	131	132	131	12
180°	131	131	131	131	131	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1237.0	1237.0	1244.0	1246.3	1246.3	1242.8	1239.4	1242.8	1253.2	1256.8	1255.6
5°	1232.4	1241.7	1254.5	1256.8	1259.0	1257.9	1255.6	1257.9	1269.5	1271.9	1273.0
7.5°	1223.1	1240.5	1256.8	1260.3	1263.7	1260.3	1259.0	1261.4	1273.0	1275.3	1275.3
10°	1211.5	1235.9	1254.5	1256.8	1260.3	1256.8	1256.8	1261.4	1273.0	1275.3	1276.5
12.5°	1195.3	1228.9	1246.3	1248.7	1253.2	1252.1	1251.0	1255.6	1267.2	1269.5	1269.5
15°	1176.7	1216.2	1232.4	1234.7	1242.8	1240.5	1240.5	1245.2	1257.9	1261.4	1260.3
17.5°	1151.2	1199.9	1218.5	1222.0	1227.8	1226.5	1227.8	1232.4	1244.0	1246.3	1247.5
20°	1122.1	1177.9	1199.9	1203.4	1209.2	1209.2	1209.2	1215.0	1226.5	1231.2	1231.2
22.5°	1082.7	1154.6	1177.9	1180.2	1187.1	1187.1	1189.5	1197.6	1208.0	1209.2	1209.2
25°	1036.3	1129.1	1148.8	1155.8	1162.8	1166.2	1169.7	1174.4	1177.9	1176.7	1177.9
27.5°	987.6	1096.6	1122.1	1126.8	1136.1	1139.6	1144.2	1145.4	1146.5	1150.0	1147.7
30°	933.0	1051.3	1089.6	1094.3	1109.4	1111.7	1107.1	1109.4	1115.2	1117.6	1119.8
32.5°	871.5	984.0	1056.0	1066.4	1080.4	1073.4	1072.2	1075.7	1085.1	1085.1	1087.3
35°	787.9	931.9	1024.7	1033.9	1044.4	1036.3	1040.9	1042.1	1047.9	1051.3	1050.2
37.5°	696.2	886.6	992.2	999.2	1007.2	996.8	1003.8	1007.2	1011.9	1009.6	1009.6
40°	615.1	815.8	953.9	958.5	965.5	957.3	964.3	966.7	968.9	966.7	965.5
42.5°	554.7	738.0	913.3	919.1	914.4	920.2	922.6	927.2	923.7	919.1	919.1
45°	508.3	717.1	869.2	876.1	869.2	878.5	881.9	881.9	871.5	869.2	868.0
47.5°	493.2	675.4	825.1	825.1	821.6	833.2	839.0	830.9	820.4	817.0	817.0
50°	492.0	629.0	764.7	760.1	776.3	790.3	784.5	776.3	768.2	755.4	755.4
52.5°	446.8	572.1	687.0	704.4	730.0	738.0	728.7	720.6	706.7	700.9	696.2
55°	414.3	512.9	616.2	651.0	677.7	688.1	670.8	662.6	641.7	638.3	635.9
57.5°	407.4	427.0	551.2	595.3	627.8	626.7	616.2	601.1	583.7	580.2	579.1
60°	373.6	308.6	481.6	533.8	567.5	564.0	554.7	540.8	524.5	522.2	519.9
62.5°	338.8	224.0	402.7	461.9	509.4	508.3	500.2	479.3	467.7	461.9	457.2
65°	287.8	188.0	286.6	384.1	452.6	454.9	437.5	422.4	409.6	402.7	401.5
67.5°	219.3	153.2	193.8	320.3	398.0	395.7	373.6	366.7	350.4	346.9	340.0
70°	162.5	102.1	134.6	260.0	344.6	338.8	321.5	313.3	298.3	290.1	285.4
72.5°	134.6	82.4	98.6	201.9	290.1	283.2	268.1	258.7	246.0	239.1	234.4
75°	109.1	87.0	75.4	149.7	235.6	230.9	217.0	207.7	197.3	188.0	189.2
77.5°	80.1	81.2	60.3	110.2	186.8	179.9	171.7	160.1	155.5	146.2	146.2
80°	60.3	63.9	45.2	75.4	134.6	134.6	127.6	119.5	111.4	106.8	106.8
82.5°	40.6	40.6	33.6	47.6	91.7	88.2	83.5	81.2	76.6	74.3	74.3
85°	18.5	23.2	20.9	29.0	49.9	52.3	52.3	49.9	48.7	46.4	47.6
87.5°	5.8	10.5	12.7	16.2	25.6	26.7	27.8	27.8	27.8	29.0	29.0
90°	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5	3.3	3.3
92.5°	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7	16.7	16.0
95°	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5	56.7	54.7
97.5°	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2	131.0	127.1
100°	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1	183.9	179.3
102.5°	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8	229.1	225.2
105°	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9	281.9	279.8
107.5°	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6	309.4	310.0
110°	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4	316.5	318.6



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8	312.0	315.3
115°	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4	296.7	301.3
117.5°	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2	275.7	280.9
120°	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9	261.6	266.6
122.5°	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7	247.3	252.2
125°	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5	228.6	233.2
127.5°	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9	213.6	217.5
130°	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3	204.1	207.6
132.5°	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7	196.0	199.2
135°	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7	184.5	187.3
137.5°	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0	176.1	178.4
140°	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3	169.3	171.4
142.5°	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2	164.6	166.4
145°	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1	157.5	158.9
147.5°	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1	151.5	152.6
150°	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8	148.1	149.0
152.5°	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0	145.4	146.1
155°	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9	142.1	142.5
157.5°	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0	139.2	139.6
160°	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0	137.8	138.0
162.5°	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1	136.5	136.7
165°	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8	134.5	134.6
167.5°	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4	133.6	133.7
170°	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4	133.6	133.6
172.5°	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0	132.9	132.8
175°	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4	131.9	131.9
177.5°	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3	131.7	131.7
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1257.9	1254.5	1257.9	1255.6	1256.8	1253.2	1242.8	1239.4	1242.8	1246.3	1246.3
5°	1273.0	1270.7	1273.0	1273.0	1271.9	1269.5	1257.9	1255.6	1257.9	1259.0	1256.8
7.5°	1277.7	1274.2	1277.7	1275.3	1275.3	1273.0	1261.4	1259.0	1260.3	1263.7	1260.3
10°	1277.7	1274.2	1277.7	1276.5	1275.3	1273.0	1261.4	1256.8	1256.8	1260.3	1256.8
12.5°	1271.9	1269.5	1271.9	1269.5	1269.5	1267.2	1255.6	1251.0	1252.1	1253.2	1248.7
15°	1262.6	1259.0	1262.6	1260.3	1261.4	1257.9	1245.2	1240.5	1240.5	1242.8	1234.7
17.5°	1248.7	1244.0	1248.7	1247.5	1246.3	1244.0	1232.4	1227.8	1226.5	1227.8	1222.0
20°	1232.4	1228.9	1232.4	1231.2	1231.2	1226.5	1215.0	1209.2	1209.2	1209.2	1203.4
22.5°	1206.9	1203.4	1206.9	1209.2	1209.2	1208.0	1197.6	1189.5	1187.1	1187.1	1180.2
25°	1177.9	1174.4	1177.9	1177.9	1176.7	1177.9	1174.4	1169.7	1166.2	1162.8	1155.8
27.5°	1150.0	1147.7	1150.0	1147.7	1150.0	1146.5	1145.4	1144.2	1139.6	1136.1	1126.8
30°	1122.1	1119.8	1122.1	1119.8	1117.6	1115.2	1109.4	1107.1	1111.7	1109.4	1094.3
32.5°	1087.3	1085.1	1087.3	1087.3	1085.1	1085.1	1075.7	1072.2	1073.4	1080.4	1066.4
35°	1051.3	1047.9	1051.3	1050.2	1051.3	1047.9	1042.1	1040.9	1036.3	1044.4	1033.9
37.5°	1009.6	1006.1	1009.6	1009.6	1009.6	1011.9	1007.2	1003.8	996.8	1007.2	999.2
40°	966.7	962.0	966.7	965.5	966.7	968.9	966.7	964.3	957.3	965.5	958.5
42.5°	917.9	916.8	917.9	919.1	919.1	923.7	927.2	922.6	920.2	914.4	919.1
45°	865.7	863.4	865.7	868.0	869.2	871.5	881.9	881.9	878.5	869.2	876.1
47.5°	810.0	804.2	810.0	817.0	817.0	820.4	830.9	839.0	833.2	821.6	825.1
50°	750.8	752.0	750.8	755.4	755.4	768.2	776.3	784.5	790.3	776.3	760.1
52.5°	692.8	691.7	692.8	696.2	700.9	706.7	720.6	728.7	738.0	730.0	704.4
55°	634.7	637.1	634.7	635.9	638.3	641.7	662.6	670.8	688.1	677.7	651.0
57.5°	576.8	573.3	576.8	579.1	580.2	583.7	601.1	616.2	626.7	627.8	595.3
60°	509.4	504.8	509.4	519.9	522.2	524.5	540.8	554.7	564.0	567.5	533.8
62.5°	450.2	442.1	450.2	457.2	461.9	467.7	479.3	500.2	508.3	509.4	461.9
65°	387.6	384.1	387.6	401.5	402.7	409.6	422.4	437.5	454.9	452.6	384.1
67.5°	330.8	330.8	330.8	340.0	346.9	350.4	366.7	373.6	395.7	398.0	320.3
70°	278.5	277.4	278.5	285.4	290.1	298.3	313.3	321.5	338.8	344.6	260.0
72.5°	228.6	227.5	228.6	234.4	239.1	246.0	258.7	268.1	283.2	290.1	201.9
75°	184.5	182.2	184.5	189.2	188.0	197.3	207.7	217.0	230.9	235.6	149.7
77.5°	141.6	141.6	141.6	146.2	146.2	155.5	160.1	171.7	179.9	186.8	110.2
80°	105.6	104.4	105.6	106.8	106.8	111.4	119.5	127.6	134.6	134.6	75.4
82.5°	74.3	71.9	74.3	74.3	74.3	76.6	81.2	83.5	88.2	91.7	47.6
85°	46.4	46.4	46.4	47.6	46.4	48.7	49.9	52.3	52.3	49.9	29.0
87.5°	30.2	29.0	30.2	29.0	29.0	27.8	27.8	27.8	26.7	25.6	16.2
90°	3.3	3.3	3.3	3.3	3.3	4.5	6.0	6.7	5.7	3.9	2.5
92.5°	13.4	10.7	13.4	16.0	16.7	23.7	33.0	37.7	33.1	23.9	17.0
95°	46.7	38.6	46.7	54.7	56.7	74.5	98.2	110.1	92.9	58.8	33.1
97.5°	111.8	96.5	111.8	127.1	131.0	142.2	157.2	164.7	136.1	79.1	36.4
100°	161.2	142.9	161.2	179.3	183.9	183.1	182.0	181.5	149.8	86.5	39.1
102.5°	209.6	193.9	209.6	225.2	229.1	214.8	195.8	186.2	154.1	89.9	41.8
105°	271.5	263.1	271.5	279.8	281.9	249.9	207.1	185.7	154.6	92.5	45.8
107.5°	312.0	314.0	312.0	310.0	309.4	264.6	205.0	175.1	147.7	92.9	51.8
110°	327.3	336.1	327.3	318.6	316.5	266.4	199.7	166.4	141.7	92.2	55.2



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	328.7	342.2	328.7	315.3	312.0	260.8	192.5	158.4	136.3	92.2	59.2
115°	320.1	338.7	320.1	301.3	296.7	247.4	181.6	148.8	130.3	93.1	65.3
117.5°	301.5	322.2	301.5	280.9	275.7	231.2	171.9	142.2	126.4	94.9	71.1
120°	286.7	306.7	286.7	266.6	261.6	220.9	166.6	139.5	125.1	96.2	74.6
122.5°	272.1	291.9	272.1	252.2	247.3	210.7	161.9	137.5	124.4	98.2	78.6
125°	251.5	269.7	251.5	233.2	228.6	197.5	156.0	135.3	123.8	101.0	83.9
127.5°	232.8	248.2	232.8	217.5	213.6	186.9	151.2	133.4	123.5	103.7	88.9
130°	221.9	236.1	221.9	207.6	204.1	180.3	148.6	132.7	123.8	105.7	92.2
132.5°	211.9	224.7	211.9	199.2	196.0	174.7	146.3	132.1	123.8	107.3	94.9
135°	198.3	209.3	198.3	187.3	184.5	166.7	142.9	131.0	123.8	109.1	98.1
137.5°	187.3	196.4	187.3	178.4	176.1	161.0	140.9	130.9	124.5	111.7	102.1
140°	179.8	188.2	179.8	171.4	169.3	156.3	138.9	130.3	124.6	113.3	104.9
142.5°	173.6	180.8	173.6	166.4	164.6	153.2	137.9	130.3	125.1	114.7	106.9
145°	164.3	169.8	164.3	158.9	157.5	148.1	135.6	129.4	125.1	116.5	110.0
147.5°	157.1	161.7	157.1	152.6	151.5	144.1	134.3	129.4	125.9	119.0	113.8
150°	152.6	156.3	152.6	149.0	148.1	141.8	133.5	129.4	126.4	120.3	115.8
152.5°	148.8	151.6	148.8	146.1	145.4	140.0	132.9	129.4	126.7	121.2	117.2
155°	144.4	146.2	144.4	142.5	142.1	137.9	132.2	129.4	127.3	123.1	120.1
157.5°	140.9	142.2	140.9	139.6	139.2	136.0	131.6	129.4	128.0	125.1	123.0
160°	138.8	139.5	138.8	138.0	137.8	135.0	131.2	129.4	128.2	125.9	124.3
162.5°	137.4	138.1	137.4	136.7	136.5	134.1	131.0	129.4	128.6	126.9	125.7
165°	135.4	136.1	135.4	134.6	134.5	132.8	130.5	129.4	129.0	128.2	127.7
167.5°	133.9	134.3	133.9	133.7	133.6	132.4	131.0	130.3	129.9	129.3	128.8
170°	133.6	133.6	133.6	133.6	133.6	132.4	131.0	130.3	130.3	130.2	130.2
172.5°	132.5	132.3	132.5	132.8	132.9	132.0	130.9	130.3	130.3	130.3	130.3
175°	131.9	131.9	131.9	131.9	131.9	131.4	130.6	130.3	130.4	130.8	131.0
177.5°	131.4	131.0	131.4	131.7	131.7	131.3	130.7	130.4	130.6	130.9	131.0
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1244.0	1237.0	1237.0	1225.4	1220.8	1217.3	1211.5	1194.1	1189.5	1184.8	1191.8
5°	1254.5	1241.7	1232.4	1211.5	1194.1	1187.1	1165.1	1123.3	1095.4	1074.6	1063.0
7.5°	1256.8	1240.5	1223.1	1190.6	1148.8	1130.3	1063.0	986.4	965.5	946.9	935.3
10°	1254.5	1235.9	1211.5	1162.8	1064.1	1031.7	964.3	914.4	901.7	898.2	901.7
12.5°	1246.3	1228.9	1195.3	1114.0	976.0	953.9	914.4	885.4	883.1	888.9	920.2
15°	1232.4	1216.2	1176.7	1049.0	927.2	911.0	883.1	872.7	885.4	926.0	1020.1
17.5°	1218.5	1199.9	1151.2	985.2	890.1	878.5	858.7	879.6	951.6	1006.1	1037.4
20°	1199.9	1177.9	1122.1	938.8	863.4	852.9	843.6	937.7	992.2	1011.9	1029.3
22.5°	1177.9	1154.6	1082.7	906.3	835.5	827.4	833.2	970.2	992.2	1006.1	1021.2
25°	1148.8	1129.1	1036.3	880.8	813.5	804.2	826.2	966.7	979.4	982.9	1013.0
27.5°	1122.1	1096.6	987.6	857.6	786.8	783.3	832.0	951.6	960.9	964.3	996.8
30°	1089.6	1051.3	933.0	833.2	758.9	757.8	833.2	933.0	930.6	940.0	972.5
32.5°	1056.0	984.0	871.5	803.0	732.2	731.1	825.1	905.2	902.8	915.6	940.0
35°	1024.7	931.9	787.9	768.2	698.6	699.7	805.3	872.7	873.8	885.4	900.5
37.5°	992.2	886.6	696.2	730.0	666.1	666.1	778.6	842.5	840.2	843.6	864.5
40°	953.9	815.8	615.1	680.0	635.9	632.5	746.2	810.0	801.9	800.7	829.7
42.5°	913.3	738.0	554.7	613.8	601.1	596.5	706.7	770.5	755.4	758.9	796.1
45°	869.2	717.1	508.3	518.7	565.1	561.7	663.7	725.3	714.8	724.2	762.5
47.5°	825.1	675.4	493.2	430.5	526.8	525.7	616.2	681.2	675.4	684.6	725.3
50°	764.7	629.0	492.0	369.1	483.9	488.5	559.3	638.3	638.3	646.3	689.3
52.5°	687.0	572.1	446.8	334.2	434.0	447.9	509.4	601.1	603.4	611.6	649.9
55°	616.2	512.9	414.3	307.5	374.9	405.0	460.7	562.8	567.5	575.6	610.4
57.5°	551.2	427.0	407.4	276.2	320.3	349.3	417.7	525.7	528.0	535.0	568.6
60°	481.6	308.6	373.6	242.5	272.7	294.8	378.3	481.6	489.7	494.3	523.4
62.5°	402.7	224.0	338.8	219.3	249.5	254.2	345.8	439.8	450.2	453.7	471.1
65°	286.6	188.0	287.8	199.6	225.1	226.3	311.0	396.9	406.1	411.9	424.7
67.5°	193.8	153.2	219.3	181.0	206.6	207.7	277.4	346.9	359.8	364.4	372.5
70°	134.6	102.1	162.5	161.3	185.7	188.0	241.4	301.7	313.3	316.8	321.5
72.5°	98.6	82.4	134.6	145.1	163.6	165.9	204.2	250.7	262.3	265.8	268.1
75°	75.4	87.0	109.1	126.5	139.2	140.4	167.1	204.2	212.4	214.7	215.8
77.5°	60.3	81.2	80.1	102.1	113.7	111.4	131.1	157.8	164.8	164.8	164.8
80°	45.2	63.9	60.3	73.1	83.5	81.2	94.0	112.6	114.9	117.2	116.0
82.5°	33.6	40.6	40.6	46.4	55.7	53.4	62.6	73.1	73.1	73.1	75.4
85°	20.9	23.2	18.5	24.3	31.4	30.2	34.8	39.4	40.6	40.6	38.3
87.5°	12.7	10.5	5.8	9.3	14.0	14.0	16.2	17.4	16.2	16.2	16.2
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5
92.5°	15.5	9.5	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7
95°	30.4	19.4	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5
97.5°	33.9	24.2	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2
100°	36.9	28.1	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1
102.5°	39.8	31.5	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8
105°	44.1	37.2	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9
107.5°	50.2	43.7	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6
110°	53.7	47.9	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	57.8	52.3	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8
115°	63.9	58.8	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4
117.5°	70.0	65.3	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2
120°	73.5	69.1	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9
122.5°	77.5	73.1	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7
125°	82.8	78.8	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5
127.5°	87.8	83.8	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9
130°	91.1	86.7	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3
132.5°	93.9	89.5	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7
135°	97.1	93.1	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7
137.5°	101.2	97.2	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0
140°	104.0	100.3	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3
142.5°	106.0	102.7	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2
145°	109.3	106.3	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1
147.5°	113.1	110.2	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1
150°	115.2	112.6	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8
152.5°	116.6	114.7	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0
155°	119.7	118.2	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9
157.5°	122.6	121.2	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0
160°	124.0	122.9	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0
162.5°	125.5	124.6	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1
165°	127.5	126.7	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8
167.5°	128.8	128.4	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4
170°	130.1	129.7	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4
172.5°	130.3	130.2	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0
175°	131.0	131.0	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4
177.5°	131.0	131.0	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1183.7	1180.2	1184.8	1172.0	1184.8	1180.2	1183.7	1191.8	1184.8	1189.5	1194.1
5°	1038.6	1032.8	1014.3	999.2	1014.3	1032.8	1038.6	1063.0	1074.6	1095.4	1123.3
7.5°	928.4	923.7	919.1	909.7	919.1	923.7	928.4	935.3	946.9	965.5	986.4
10°	903.9	905.2	912.1	911.0	912.1	905.2	903.9	901.7	898.2	901.7	914.4
12.5°	966.7	977.1	1015.4	1013.0	1015.4	977.1	966.7	920.2	888.9	883.1	885.4
15°	1038.6	1042.1	1050.2	1051.3	1050.2	1042.1	1038.6	1020.1	926.0	885.4	872.7
17.5°	1045.5	1046.8	1052.6	1052.6	1052.6	1046.8	1045.5	1037.4	1006.1	951.6	879.6
20°	1039.7	1042.1	1053.7	1056.0	1053.7	1042.1	1039.7	1029.3	1011.9	992.2	937.7
22.5°	1037.4	1042.1	1051.3	1050.2	1051.3	1042.1	1037.4	1021.2	1006.1	992.2	970.2
25°	1025.9	1025.9	1027.0	1028.1	1027.0	1025.9	1025.9	1013.0	982.9	979.4	966.7
27.5°	1001.4	1003.8	1010.7	1009.6	1010.7	1003.8	1001.4	996.8	964.3	960.9	951.6
30°	979.4	977.1	971.3	966.7	971.3	977.1	979.4	972.5	940.0	930.6	933.0
32.5°	942.2	936.4	930.6	927.2	930.6	936.4	942.2	940.0	915.6	902.8	905.2
35°	898.2	899.4	898.2	894.7	898.2	899.4	898.2	900.5	885.4	873.8	872.7
37.5°	866.9	869.2	868.0	863.4	868.0	869.2	866.9	864.5	843.6	840.2	842.5
40°	834.4	835.5	834.4	830.9	834.4	835.5	834.4	829.7	800.7	801.9	810.0
42.5°	803.0	801.9	798.4	796.1	798.4	801.9	803.0	796.1	758.9	755.4	770.5
45°	767.0	768.2	761.2	757.8	761.2	768.2	767.0	762.5	724.2	714.8	725.3
47.5°	731.1	731.1	725.3	721.8	725.3	731.1	731.1	725.3	684.6	675.4	681.2
50°	692.8	691.7	683.5	682.4	683.5	691.7	692.8	689.3	646.3	638.3	638.3
52.5°	648.7	648.7	649.9	652.1	649.9	648.7	648.7	649.9	611.6	603.4	601.1
55°	610.4	611.6	619.6	622.0	619.6	611.6	610.4	610.4	575.6	567.5	562.8
57.5°	570.9	570.9	576.8	576.8	576.8	570.9	570.9	568.6	535.0	528.0	525.7
60°	525.7	528.0	532.6	531.5	532.6	528.0	525.7	523.4	494.3	489.7	481.6
62.5°	478.1	480.4	481.6	479.3	481.6	480.4	478.1	471.1	453.7	450.2	439.8
65°	428.2	430.5	431.7	429.4	431.7	430.5	428.2	424.7	411.9	406.1	396.9
67.5°	377.1	376.0	374.9	379.4	374.9	376.0	377.1	372.5	364.4	359.8	346.9
70°	324.9	324.9	323.7	326.1	323.7	324.9	324.9	321.5	316.8	313.3	301.7
72.5°	269.2	268.1	272.7	269.2	272.7	268.1	269.2	268.1	265.8	262.3	250.7
75°	214.7	217.0	214.7	218.2	214.7	217.0	214.7	215.8	214.7	212.4	204.2
77.5°	163.6	165.9	163.6	163.6	163.6	165.9	163.6	164.8	164.8	164.8	157.8
80°	116.0	114.9	114.9	113.7	114.9	114.9	116.0	116.0	117.2	114.9	112.6
82.5°	74.3	73.1	73.1	75.4	73.1	73.1	74.3	75.4	73.1	73.1	73.1
85°	40.6	41.8	39.4	39.4	39.4	41.8	40.6	38.3	40.6	40.6	39.4
87.5°	15.1	14.0	14.0	14.0	14.0	14.0	15.1	16.2	16.2	16.2	17.4
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.5	6.0	6.7	5.7
92.5°	16.7	16.0	13.4	10.7	13.4	16.0	16.7	23.7	33.0	37.7	33.1
95°	56.7	54.7	46.7	38.6	46.7	54.7	56.7	74.5	98.2	110.1	92.9
97.5°	131.0	127.1	111.8	96.5	111.8	127.1	131.0	142.2	157.2	164.7	136.1
100°	183.9	179.3	161.2	142.9	161.2	179.3	183.9	183.1	182.0	181.5	149.8
102.5°	229.1	225.2	209.6	193.9	209.6	225.2	229.1	214.8	195.8	186.2	154.1
105°	281.9	279.8	271.5	263.1	271.5	279.8	281.9	249.9	207.1	185.7	154.6
107.5°	309.4	310.0	312.0	314.0	312.0	310.0	309.4	264.6	205.0	175.1	147.7
110°	316.5	318.6	327.3	336.1	327.3	318.6	316.5	266.4	199.7	166.4	141.7



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	312.0	315.3	328.7	342.2	328.7	315.3	312.0	260.8	192.5	158.4	136.3
115°	296.7	301.3	320.1	338.7	320.1	301.3	296.7	247.4	181.6	148.8	130.3
117.5°	275.7	280.9	301.5	322.2	301.5	280.9	275.7	231.2	171.9	142.2	126.4
120°	261.6	266.6	286.7	306.7	286.7	266.6	261.6	220.9	166.6	139.5	125.1
122.5°	247.3	252.2	272.1	291.9	272.1	252.2	247.3	210.7	161.9	137.5	124.4
125°	228.6	233.2	251.5	269.7	251.5	233.2	228.6	197.5	156.0	135.3	123.8
127.5°	213.6	217.5	232.8	248.2	232.8	217.5	213.6	186.9	151.2	133.4	123.5
130°	204.1	207.6	221.9	236.1	221.9	207.6	204.1	180.3	148.6	132.7	123.8
132.5°	196.0	199.2	211.9	224.7	211.9	199.2	196.0	174.7	146.3	132.1	123.8
135°	184.5	187.3	198.3	209.3	198.3	187.3	184.5	166.7	142.9	131.0	123.8
137.5°	176.1	178.4	187.3	196.4	187.3	178.4	176.1	161.0	140.9	130.9	124.5
140°	169.3	171.4	179.8	188.2	179.8	171.4	169.3	156.3	138.9	130.3	124.6
142.5°	164.6	166.4	173.6	180.8	173.6	166.4	164.6	153.2	137.9	130.3	125.1
145°	157.5	158.9	164.3	169.8	164.3	158.9	157.5	148.1	135.6	129.4	125.1
147.5°	151.5	152.6	157.1	161.7	157.1	152.6	151.5	144.1	134.3	129.4	125.9
150°	148.1	149.0	152.6	156.3	152.6	149.0	148.1	141.8	133.5	129.4	126.4
152.5°	145.4	146.1	148.8	151.6	148.8	146.1	145.4	140.0	132.9	129.4	126.7
155°	142.1	142.5	144.4	146.2	144.4	142.5	142.1	137.9	132.2	129.4	127.3
157.5°	139.2	139.6	140.9	142.2	140.9	139.6	139.2	136.0	131.6	129.4	128.0
160°	137.8	138.0	138.8	139.5	138.8	138.0	137.8	135.0	131.2	129.4	128.2
162.5°	136.5	136.7	137.4	138.1	137.4	136.7	136.5	134.1	131.0	129.4	128.6
165°	134.5	134.6	135.4	136.1	135.4	134.6	134.5	132.8	130.5	129.4	129.0
167.5°	133.6	133.7	133.9	134.3	133.9	133.7	133.6	132.4	131.0	130.3	129.9
170°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	132.4	131.0	130.3	130.3
172.5°	132.9	132.8	132.5	132.3	132.5	132.8	132.9	132.0	130.9	130.3	130.3
175°	131.9	131.9	131.9	131.9	131.9	131.9	131.9	131.4	130.6	130.3	130.4
177.5°	131.7	131.7	131.4	131.0	131.4	131.7	131.7	131.3	130.7	130.4	130.6
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1211.5	1217.3	1220.8	1225.4	1237.0
5°	1165.1	1187.1	1194.1	1211.5	1232.4
7.5°	1063.0	1130.3	1148.8	1190.6	1223.1
10°	964.3	1031.7	1064.1	1162.8	1211.5
12.5°	914.4	953.9	976.0	1114.0	1195.3
15°	883.1	911.0	927.2	1049.0	1176.7
17.5°	858.7	878.5	890.1	985.2	1151.2
20°	843.6	852.9	863.4	938.8	1122.1
22.5°	833.2	827.4	835.5	906.3	1082.7
25°	826.2	804.2	813.5	880.8	1036.3
27.5°	832.0	783.3	786.8	857.6	987.6
30°	833.2	757.8	758.9	833.2	933.0
32.5°	825.1	731.1	732.2	803.0	871.5
35°	805.3	699.7	698.6	768.2	787.9
37.5°	778.6	666.1	666.1	730.0	696.2
40°	746.2	632.5	635.9	680.0	615.1
42.5°	706.7	596.5	601.1	613.8	554.7
45°	663.7	561.7	565.1	518.7	508.3
47.5°	616.2	525.7	526.8	430.5	493.2
50°	559.3	488.5	483.9	369.1	492.0
52.5°	509.4	447.9	434.0	334.2	446.8
55°	460.7	405.0	374.9	307.5	414.3
57.5°	417.7	349.3	320.3	276.2	407.4
60°	378.3	294.8	272.7	242.5	373.6
62.5°	345.8	254.2	249.5	219.3	338.8
65°	311.0	226.3	225.1	199.6	287.8
67.5°	277.4	207.7	206.6	181.0	219.3
70°	241.4	188.0	185.7	161.3	162.5
72.5°	204.2	165.9	163.6	145.1	134.6
75°	167.1	140.4	139.2	126.5	109.1
77.5°	131.1	111.4	113.7	102.1	80.1
80°	94.0	81.2	83.5	73.1	60.3
82.5°	62.6	53.4	55.7	46.4	40.6
85°	34.8	30.2	31.4	24.3	18.5
87.5°	16.2	14.0	14.0	9.3	5.8
90°	3.9	2.5	2.3	1.6	0.9
92.5°	23.9	17.0	15.5	9.5	3.5
95°	58.8	33.1	30.4	19.4	8.4
97.5°	79.1	36.4	33.9	24.2	14.6
100°	86.5	39.1	36.9	28.1	19.3
102.5°	89.9	41.8	39.8	31.5	23.4
105°	92.5	45.8	44.1	37.2	30.3
107.5°	92.9	51.8	50.2	43.7	37.3
110°	92.2	55.2	53.7	47.9	42.1



TEST NUMBER: P934057

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	92.2	59.2	57.8	52.3	46.7
115°	93.1	65.3	63.9	58.8	53.8
117.5°	94.9	71.1	70.0	65.3	60.7
120°	96.2	74.6	73.5	69.1	64.7
122.5°	98.2	78.6	77.5	73.1	68.7
125°	101.0	83.9	82.8	78.8	74.7
127.5°	103.7	88.9	87.8	83.8	79.7
130°	105.7	92.2	91.1	86.7	82.3
132.5°	107.3	94.9	93.9	89.5	85.1
135°	109.1	98.1	97.1	93.1	89.1
137.5°	111.7	102.1	101.2	97.2	93.3
140°	113.3	104.9	104.0	100.3	96.7
142.5°	114.7	106.9	106.0	102.7	99.3
145°	116.5	110.0	109.3	106.3	103.4
147.5°	119.0	113.8	113.1	110.2	107.4
150°	120.3	115.8	115.2	112.6	110.1
152.5°	121.2	117.2	116.6	114.7	112.8
155°	123.1	120.1	119.7	118.2	116.8
157.5°	125.1	123.0	122.6	121.2	119.8
160°	125.9	124.3	124.0	122.9	121.8
162.5°	126.9	125.7	125.5	124.6	123.8
165°	128.2	127.7	127.5	126.7	126.0
167.5°	129.3	128.8	128.8	128.4	128.1
170°	130.2	130.2	130.1	129.7	129.4
172.5°	130.3	130.3	130.3	130.2	130.1
175°	130.8	131.0	131.0	131.0	131.0
177.5°	130.9	131.0	131.0	131.0	131.0
180°	131.0	131.0	131.0	131.0	131.0



TEST NUMBER: P934057
 CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-4-3000K

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	15.58	16.78	16.24	17.45	18.24	18.38	19.57	19.04	20.25	21.04
	3H	16.08	17.16	16.76	17.84	18.67	19.74	20.81	20.41	21.50	22.32
	4H	16.29	17.30	16.98	18.00	18.84	20.19	21.20	20.88	21.90	22.74
	6H	16.42	17.36	17.13	18.07	18.92	20.48	21.42	21.19	22.13	22.98
	8H	16.43	17.33	17.15	18.06	18.91	20.56	21.46	21.28	22.19	23.04
	12H	16.42	17.27	17.14	17.99	18.87	20.61	21.46	21.33	22.18	23.06
4H	2H	16.64	17.66	17.34	18.36	19.19	18.83	19.84	19.52	20.54	21.38
	3H	17.70	18.55	18.41	19.28	20.14	20.35	21.20	21.06	21.94	22.79
	4H	17.99	18.76	18.72	19.50	20.38	20.89	21.66	21.62	22.40	23.28
	6H	18.13	18.80	18.88	19.56	20.46	21.26	21.93	22.01	22.70	23.59
	8H	18.15	18.77	18.90	19.53	20.44	21.37	22.00	22.13	22.76	23.66
	12H	18.13	18.69	18.90	19.48	20.38	21.44	22.00	22.21	22.79	23.70
8H	4H	18.47	19.09	19.22	19.85	20.75	21.04	21.66	21.79	22.42	23.33
	6H	18.74	19.26	19.52	20.06	20.97	21.48	22.00	22.26	22.80	23.71
	8H	18.79	19.25	19.58	20.05	20.97	21.63	22.09	22.43	22.90	23.82
	12H	18.79	19.19	19.58	19.98	20.96	21.74	22.15	22.54	22.94	23.92
12H	4H	18.49	19.05	19.26	19.83	20.74	21.02	21.58	21.79	22.37	23.27
	6H	18.80	19.26	19.60	20.07	20.99	21.48	21.94	22.28	22.75	23.67
	8H	18.89	19.29	19.68	20.08	21.06	21.66	22.06	22.45	22.85	23.83