

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: P934074

Luminaire Tested: SQ4-FA-025U-100D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934074
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

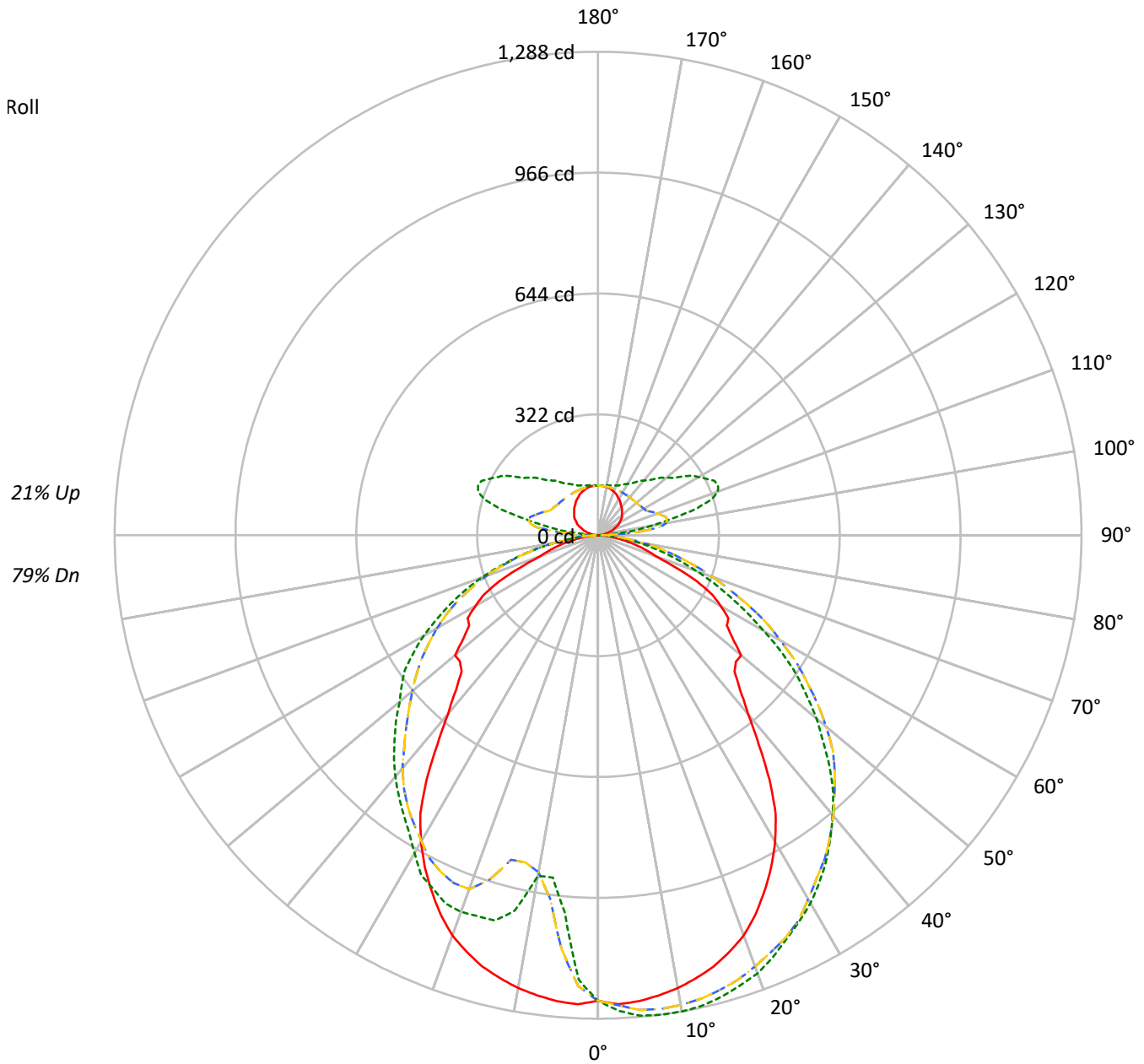
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4075.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11507	11507	11507	11507
5°	11581	11617	11581	9134
10°	11491	11442	11491	8181
15°	11353	11194	11353	9347
20°	11102	10901	11102	9367
25°	10604	10472	10604	9169
30°	9963	10117	9963	8733
35°	8869	9668	8869	8254
40°	7378	9137	7378	7892
45°	6579	8518	6579	7477
50°	6974	7779	6974	7059
55°	6543	6983	6543	6817
60°	6720	5929	6720	6243
65°	6064	4901	6064	5479
70°	4171	3906	4171	4593
75°	3617	2888	3617	3458
80°	2855	1909	2855	2079
85°	1548	1011	1548	860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10103 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	2.7
10°-20°	317.8	7.8
20°-30°	491.3	12.1
30°-40°	586.5	14.4
40°-50°	590.0	14.5
50°-60°	513.3	12.6
60°-70°	364.0	8.9
70°-80°	192.6	4.7
80°-90°	48.5	1.2
90°-100°	64.6	1.6
100°-110°	169.8	4.2
110°-120°	176.1	4.3
120°-130°	141.2	3.5
130°-140°	110.8	2.7
140°-150°	85.1	2.1
150°-160°	61.3	1.5
160°-170°	37.5	0.9
170°-180°	12.7	0.3
0°-30°	921.1	22.6
0°-40°	1507.6	37.0
0°-60°	2611.0	64.1
0°-90°	3215.9	78.9
90°-120°	410.5	10.1
90°-150°	747.7	18.3
90°-180°	859.0	21.1
0°-180°	4075.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1240	1240	1240	1240	1240	
5°	1246	1285	1246	1010	1246	118
15°	1190	1273	1190	1063	1190	335
25°	1048	1187	1048	1040	1048	481
35°	797	1060	797	905	797	493
45°	514	873	514	766	514	412
55°	419	644	419	629	419	385
65°	291	388	291	434	291	278
75°	110	184	110	221	110	116
85°	19	47	19	40	19	25
90°	1	3	1	3	1	2
95°	8	39	8	39	8	9
105°	31	266	31	266	31	32
115°	54	342	54	342	54	54
125°	76	273	76	273	76	67
135°	90	212	90	212	90	70
145°	104	172	104	172	104	65
155°	118	148	118	148	118	54
165°	127	138	127	138	127	36
175°	132	133	132	133	132	13
180°	132	132	132	132	132	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1250.7	1250.7	1257.8	1260.1	1260.1	1256.5	1253.1	1256.5	1267.1	1270.6	1269.5
5°	1246.0	1255.4	1268.3	1270.6	1272.9	1271.8	1269.5	1271.8	1283.5	1285.9	1287.1
7.5°	1236.6	1254.2	1270.6	1274.2	1277.7	1274.2	1272.9	1275.3	1287.1	1289.4	1289.4
10°	1224.9	1249.5	1268.3	1270.6	1274.2	1270.6	1270.6	1275.3	1287.1	1289.4	1290.6
12.5°	1208.5	1242.5	1260.1	1262.5	1267.1	1265.9	1264.8	1269.5	1281.2	1283.5	1283.5
15°	1189.7	1229.6	1246.0	1248.4	1256.5	1254.2	1254.2	1258.9	1271.8	1275.3	1274.2
17.5°	1163.9	1213.2	1231.9	1235.5	1241.3	1240.1	1241.3	1246.0	1257.8	1260.1	1261.2
20°	1134.5	1190.9	1213.2	1216.6	1222.5	1222.5	1222.5	1228.4	1240.1	1244.8	1244.8
22.5°	1094.6	1167.4	1190.9	1193.2	1200.2	1200.2	1202.6	1210.8	1221.4	1222.5	1222.5
25°	1047.8	1141.6	1161.5	1168.6	1175.6	1179.1	1182.6	1187.3	1190.9	1189.7	1190.9
27.5°	998.5	1108.8	1134.5	1139.2	1148.6	1152.2	1156.8	1158.0	1159.2	1162.7	1160.3
30°	943.3	1062.9	1101.7	1106.4	1121.6	1123.9	1119.3	1121.6	1127.5	1129.9	1132.2
32.5°	881.1	994.9	1067.6	1078.2	1092.3	1085.2	1084.1	1087.6	1097.0	1097.0	1099.3
35°	796.6	942.2	1036.0	1045.4	1055.9	1047.8	1052.4	1053.6	1059.5	1062.9	1061.8
37.5°	703.9	896.3	1003.2	1010.2	1018.4	1007.8	1014.9	1018.4	1023.1	1020.8	1020.8
40°	621.9	824.8	964.5	969.1	976.2	967.9	974.9	977.3	979.6	977.3	976.2
42.5°	560.9	746.2	923.3	929.2	924.5	930.4	932.8	937.5	933.9	929.2	929.2
45°	513.9	725.1	878.8	885.8	878.8	888.2	891.6	891.6	881.1	878.8	877.6
47.5°	498.6	682.9	834.2	834.2	830.6	842.4	848.3	840.0	829.5	826.0	826.0
50°	497.5	635.9	773.2	768.5	784.9	799.0	793.2	784.9	776.7	763.8	763.8
52.5°	451.7	578.4	694.6	712.2	738.0	746.2	736.8	728.6	714.5	708.6	703.9
55°	418.9	518.6	623.0	658.2	685.2	695.7	678.2	669.9	648.8	645.3	642.9
57.5°	411.9	431.7	557.3	601.9	634.7	633.6	623.0	607.7	590.2	586.6	585.5
60°	377.8	312.0	486.9	539.7	573.7	570.2	560.9	546.7	530.3	528.0	525.6
62.5°	342.6	226.4	407.1	467.0	515.0	513.9	505.7	484.6	472.9	467.0	462.3
65°	291.0	190.0	289.8	388.3	457.6	459.9	442.3	427.0	414.2	407.1	405.9
67.5°	221.7	154.9	195.9	323.9	402.4	400.0	377.8	370.7	354.3	350.8	343.7
70°	164.3	103.3	136.1	262.8	348.5	342.6	325.0	316.7	301.6	293.3	288.6
72.5°	136.1	83.3	99.7	204.2	293.3	286.3	271.0	261.6	248.7	241.7	237.0
75°	110.3	88.0	76.3	151.3	238.2	233.5	219.4	210.0	199.4	190.0	191.3
77.5°	81.0	82.1	61.0	111.4	188.9	181.9	173.6	161.9	157.2	147.9	147.9
80°	61.0	64.6	45.7	76.3	136.1	136.1	129.0	120.9	112.6	108.0	108.0
82.5°	41.0	41.0	34.0	48.1	92.7	89.2	84.4	82.1	77.4	75.1	75.1
85°	18.7	23.4	21.1	29.3	50.4	52.8	52.8	50.4	49.3	46.9	48.1
87.5°	5.9	10.6	12.9	16.4	25.8	27.0	28.1	28.1	28.1	29.3	29.3
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5	3.4	3.4
92.5°	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0	16.9	16.2
95°	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3	57.4	55.3
97.5°	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8	132.4	128.5
100°	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1	185.9	181.3
102.5°	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2	231.7	227.7
105°	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6	285.0	282.9
107.5°	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6	312.8	313.4
110°	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3	319.9	322.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6	315.4	318.8
115°	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1	300.0	304.7
117.5°	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7	278.7	284.0
120°	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3	264.4	269.5
122.5°	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0	250.1	255.0
125°	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7	231.1	235.8
127.5°	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0	216.0	219.9
130°	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3	206.4	209.9
132.5°	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6	198.2	201.4
135°	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5	186.6	189.3
137.5°	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8	178.0	180.4
140°	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1	171.2	173.3
142.5°	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9	166.4	168.3
145°	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7	159.2	160.6
147.5°	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7	153.2	154.3
150°	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4	149.7	150.6
152.5°	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5	147.0	147.7
155°	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4	143.7	144.1
157.5°	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5	140.7	141.1
160°	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5	139.3	139.5
162.5°	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6	138.0	138.2
165°	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3	136.0	136.1
167.5°	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9	135.1	135.2
170°	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9	135.1	135.1
172.5°	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5	134.4	134.3
175°	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8	133.4	133.4
177.5°	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8	133.2	133.1
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1271.8	1268.3	1271.8	1269.5	1270.6	1267.1	1256.5	1253.1	1256.5	1260.1	1260.1
5°	1287.1	1284.8	1287.1	1287.1	1285.9	1283.5	1271.8	1269.5	1271.8	1272.9	1270.6
7.5°	1291.8	1288.2	1291.8	1289.4	1289.4	1287.1	1275.3	1272.9	1274.2	1277.7	1274.2
10°	1291.8	1288.2	1291.8	1290.6	1289.4	1287.1	1275.3	1270.6	1270.6	1274.2	1270.6
12.5°	1285.9	1283.5	1285.9	1283.5	1283.5	1281.2	1269.5	1264.8	1265.9	1267.1	1262.5
15°	1276.5	1272.9	1276.5	1274.2	1275.3	1271.8	1258.9	1254.2	1254.2	1256.5	1248.4
17.5°	1262.5	1257.8	1262.5	1261.2	1260.1	1257.8	1246.0	1241.3	1240.1	1241.3	1235.5
20°	1246.0	1242.5	1246.0	1244.8	1244.8	1240.1	1228.4	1222.5	1222.5	1222.5	1216.6
22.5°	1220.2	1216.6	1220.2	1222.5	1222.5	1221.4	1210.8	1202.6	1200.2	1200.2	1193.2
25°	1190.9	1187.3	1190.9	1190.9	1189.7	1190.9	1187.3	1182.6	1179.1	1175.6	1168.6
27.5°	1162.7	1160.3	1162.7	1160.3	1162.7	1159.2	1158.0	1156.8	1152.2	1148.6	1139.2
30°	1134.5	1132.2	1134.5	1132.2	1129.9	1127.5	1121.6	1119.3	1123.9	1121.6	1106.4
32.5°	1099.3	1097.0	1099.3	1099.3	1097.0	1097.0	1087.6	1084.1	1085.2	1092.3	1078.2
35°	1062.9	1059.5	1062.9	1061.8	1062.9	1059.5	1053.6	1052.4	1047.8	1055.9	1045.4
37.5°	1020.8	1017.2	1020.8	1020.8	1020.8	1023.1	1018.4	1014.9	1007.8	1018.4	1010.2
40°	977.3	972.6	977.3	976.2	977.3	979.6	977.3	974.9	967.9	976.2	969.1
42.5°	928.0	926.9	928.0	929.2	929.2	933.9	937.5	932.8	930.4	924.5	929.2
45°	875.2	872.9	875.2	877.6	878.8	881.1	891.6	891.6	888.2	878.8	885.8
47.5°	818.9	813.1	818.9	826.0	826.0	829.5	840.0	848.3	842.4	830.6	834.2
50°	759.1	760.3	759.1	763.8	763.8	776.7	784.9	793.2	799.0	784.9	768.5
52.5°	700.5	699.3	700.5	703.9	708.6	714.5	728.6	736.8	746.2	738.0	712.2
55°	641.8	644.2	641.8	642.9	645.3	648.8	669.9	678.2	695.7	685.2	658.2
57.5°	583.1	579.6	583.1	585.5	586.6	590.2	607.7	623.0	633.6	634.7	601.9
60°	515.0	510.3	515.0	525.6	528.0	530.3	546.7	560.9	570.2	573.7	539.7
62.5°	455.2	447.0	455.2	462.3	467.0	472.9	484.6	505.7	513.9	515.0	467.0
65°	391.9	388.3	391.9	405.9	407.1	414.2	427.0	442.3	459.9	457.6	388.3
67.5°	334.4	334.4	334.4	343.7	350.8	354.3	370.7	377.8	400.0	402.4	323.9
70°	281.6	280.4	281.6	288.6	293.3	301.6	316.7	325.0	342.6	348.5	262.8
72.5°	231.1	230.0	231.1	237.0	241.7	248.7	261.6	271.0	286.3	293.3	204.2
75°	186.6	184.2	186.6	191.3	190.0	199.4	210.0	219.4	233.5	238.2	151.3
77.5°	143.1	143.1	143.1	147.9	147.9	157.2	161.9	173.6	181.9	188.9	111.4
80°	106.7	105.6	106.7	108.0	108.0	112.6	120.9	129.0	136.1	136.1	76.3
82.5°	75.1	72.7	75.1	75.1	75.1	77.4	82.1	84.4	89.2	92.7	48.1
85°	46.9	46.9	46.9	48.1	46.9	49.3	50.4	52.8	52.8	50.4	29.3
87.5°	30.5	29.3	30.5	29.3	29.3	28.1	28.1	28.1	27.0	25.8	16.4
90°	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8	3.9	2.5
92.5°	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5	24.2	17.1
95°	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0	59.4	33.5
97.5°	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6	80.0	36.8
100°	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5	87.5	39.5
102.5°	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8	90.9	42.3
105°	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3	93.5	46.4
107.5°	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4	94.0	52.4
110°	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2	93.2	55.8



TEST NUMBER: P934074

CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8	93.2	59.9
115°	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7	94.1	66.0
117.5°	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8	95.9	71.9
120°	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5	97.2	75.4
122.5°	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7	99.3	79.5
125°	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2	102.1	84.8
127.5°	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9	104.9	89.9
130°	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1	106.9	93.2
132.5°	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2	108.5	96.0
135°	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1	110.3	99.2
137.5°	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8	113.0	103.3
140°	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0	114.6	106.0
142.5°	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5	116.0	108.1
145°	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5	117.7	111.2
147.5°	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3	120.3	115.1
150°	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8	121.7	117.1
152.5°	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0	122.5	118.5
155°	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7	124.5	121.4
157.5°	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4	126.5	124.3
160°	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6	127.3	125.7
162.5°	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0	128.3	127.1
165°	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4	129.6	129.1
167.5°	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3	130.7	130.3
170°	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7	131.6	131.6
172.5°	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9	132.2	132.5
177.5°	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0	132.3	132.5
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P934074

CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1257.8	1250.7	1250.7	1238.9	1234.2	1230.8	1224.9	1207.3	1202.6	1197.9	1204.9
5°	1268.3	1255.4	1246.0	1224.9	1207.3	1200.2	1177.9	1135.8	1107.5	1086.5	1074.7
7.5°	1270.6	1254.2	1236.6	1203.8	1161.5	1142.8	1074.7	997.3	976.2	957.4	945.6
10°	1268.3	1249.5	1224.9	1175.6	1075.9	1043.0	974.9	924.5	911.6	908.1	911.6
12.5°	1260.1	1242.5	1208.5	1126.3	986.7	964.5	924.5	895.2	892.9	898.7	930.4
15°	1246.0	1229.6	1189.7	1060.6	937.5	921.0	892.9	882.3	895.2	936.2	1031.3
17.5°	1231.9	1213.2	1163.9	996.1	899.9	888.2	868.2	889.3	962.1	1017.2	1048.9
20°	1213.2	1190.9	1134.5	949.2	872.9	862.3	852.9	948.0	1003.2	1023.1	1040.6
22.5°	1190.9	1167.4	1094.6	916.3	844.8	836.5	842.4	980.9	1003.2	1017.2	1032.5
25°	1161.5	1141.6	1047.8	890.5	822.5	813.1	835.3	977.3	990.2	993.8	1024.2
27.5°	1134.5	1108.8	998.5	867.0	795.5	791.9	841.2	962.1	971.5	974.9	1007.8
30°	1101.7	1062.9	943.3	842.4	767.3	766.2	842.4	943.3	940.9	950.3	983.2
32.5°	1067.6	994.9	881.1	811.9	740.3	739.2	834.2	915.2	912.8	925.7	950.3
35°	1036.0	942.2	796.6	776.7	706.3	707.5	814.2	882.3	883.5	895.2	910.5
37.5°	1003.2	896.3	703.9	738.0	673.5	673.5	787.2	851.8	849.5	852.9	874.1
40°	964.5	824.8	621.9	687.5	642.9	639.4	754.4	818.9	810.7	809.6	838.9
42.5°	923.3	746.2	560.9	620.6	607.7	603.0	714.5	779.0	763.8	767.3	804.9
45°	878.8	725.1	513.9	524.5	571.3	567.9	671.1	733.3	722.7	732.2	770.9
47.5°	834.2	682.9	498.6	435.3	532.6	531.5	623.0	688.7	682.9	692.2	733.3
50°	773.2	635.9	497.5	373.1	489.3	493.9	565.5	645.3	645.3	653.5	696.9
52.5°	694.6	578.4	451.7	337.9	438.8	452.9	515.0	607.7	610.1	618.3	657.0
55°	623.0	518.6	418.9	310.9	379.0	409.5	465.8	569.0	573.7	581.9	617.2
57.5°	557.3	431.7	411.9	279.3	323.9	353.2	422.3	531.5	533.9	540.9	574.9
60°	486.9	312.0	377.8	245.2	275.7	298.0	382.5	486.9	495.1	499.8	529.2
62.5°	407.1	226.4	342.6	221.7	252.3	257.0	349.6	444.6	455.2	458.7	476.3
65°	289.8	190.0	291.0	201.8	227.6	228.7	314.4	401.3	410.6	416.5	429.4
67.5°	195.9	154.9	221.7	183.0	208.9	210.0	280.4	350.8	363.7	368.4	376.6
70°	136.1	103.3	164.3	163.1	187.7	190.0	244.0	305.0	316.7	320.3	325.0
72.5°	99.7	83.3	136.1	146.7	165.4	167.7	206.5	253.4	265.2	268.7	271.0
75°	76.3	88.0	110.3	127.9	140.7	142.0	169.0	206.5	214.7	217.0	218.2
77.5°	61.0	82.1	81.0	103.3	115.0	112.6	132.6	159.6	166.6	166.6	166.6
80°	45.7	64.6	61.0	73.9	84.4	82.1	95.0	113.8	116.2	118.5	117.3
82.5°	34.0	41.0	41.0	46.9	56.3	54.0	63.3	73.9	73.9	73.9	76.3
85°	21.1	23.4	18.7	24.6	31.7	30.5	35.2	39.9	41.0	41.0	38.7
87.5°	12.9	10.6	5.9	9.4	14.1	14.1	16.4	17.6	16.4	16.4	16.4
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5
92.5°	15.6	9.6	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0
95°	30.7	19.6	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3
97.5°	34.3	24.5	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8
100°	37.3	28.4	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1
102.5°	40.2	31.9	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2
105°	44.6	37.7	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6
107.5°	50.8	44.2	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6
110°	54.3	48.4	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3



TEST NUMBER: P934074

CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.4	52.8	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6
115°	64.6	59.5	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1
117.5°	70.8	66.1	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7
120°	74.3	69.9	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3
122.5°	78.3	73.9	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0
125°	83.7	79.7	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7
127.5°	88.8	84.7	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0
130°	92.1	87.6	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3
132.5°	94.9	90.5	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6
135°	98.2	94.1	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5
137.5°	102.3	98.3	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8
140°	105.1	101.4	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1
142.5°	107.2	103.8	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9
145°	110.5	107.4	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7
147.5°	114.4	111.4	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7
150°	116.5	113.8	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4
152.5°	117.9	116.0	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5
155°	121.0	119.5	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4
157.5°	124.0	122.5	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5
160°	125.4	124.2	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5
162.5°	126.9	126.0	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6
165°	128.9	128.1	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3
167.5°	130.2	129.8	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9
170°	131.5	131.2	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9
172.5°	131.7	131.6	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5
175°	132.5	132.5	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8
177.5°	132.5	132.5	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P934074

CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1196.8	1193.2	1197.9	1184.9	1197.9	1193.2	1196.8	1204.9	1197.9	1202.6	1207.3
5°	1050.1	1044.2	1025.5	1010.2	1025.5	1044.2	1050.1	1074.7	1086.5	1107.5	1135.8
7.5°	938.6	933.9	929.2	919.8	929.2	933.9	938.6	945.6	957.4	976.2	997.3
10°	913.9	915.2	922.2	921.0	922.2	915.2	913.9	911.6	908.1	911.6	924.5
12.5°	977.3	987.9	1026.6	1024.2	1026.6	987.9	977.3	930.4	898.7	892.9	895.2
15°	1050.1	1053.6	1061.8	1062.9	1061.8	1053.6	1050.1	1031.3	936.2	895.2	882.3
17.5°	1057.1	1058.3	1064.2	1064.2	1064.2	1058.3	1057.1	1048.9	1017.2	962.1	889.3
20°	1051.2	1053.6	1065.3	1067.6	1065.3	1053.6	1051.2	1040.6	1023.1	1003.2	948.0
22.5°	1048.9	1053.6	1062.9	1061.8	1062.9	1053.6	1048.9	1032.5	1017.2	1003.2	980.9
25°	1037.2	1037.2	1038.3	1039.5	1038.3	1037.2	1037.2	1024.2	993.8	990.2	977.3
27.5°	1012.5	1014.9	1021.9	1020.8	1021.9	1014.9	1012.5	1007.8	974.9	971.5	962.1
30°	990.2	987.9	982.0	977.3	982.0	987.9	990.2	983.2	950.3	940.9	943.3
32.5°	952.6	946.8	940.9	937.5	940.9	946.8	952.6	950.3	925.7	912.8	915.2
35°	908.1	909.3	908.1	904.6	908.1	909.3	908.1	910.5	895.2	883.5	882.3
37.5°	876.5	878.8	877.6	872.9	877.6	878.8	876.5	874.1	852.9	849.5	851.8
40°	843.6	844.8	843.6	840.0	843.6	844.8	843.6	838.9	809.6	810.7	818.9
42.5°	811.9	810.7	807.2	804.9	807.2	810.7	811.9	804.9	767.3	763.8	779.0
45°	775.5	776.7	769.6	766.2	769.6	776.7	775.5	770.9	732.2	722.7	733.3
47.5°	739.2	739.2	733.3	729.8	733.3	739.2	739.2	733.3	692.2	682.9	688.7
50°	700.5	699.3	691.0	689.9	691.0	699.3	700.5	696.9	653.5	645.3	645.3
52.5°	655.9	655.9	657.0	659.3	657.0	655.9	655.9	657.0	618.3	610.1	607.7
55°	617.2	618.3	626.5	628.9	626.5	618.3	617.2	617.2	581.9	573.7	569.0
57.5°	577.2	577.2	583.1	583.1	583.1	577.2	577.2	574.9	540.9	533.9	531.5
60°	531.5	533.9	538.5	537.3	538.5	533.9	531.5	529.2	499.8	495.1	486.9
62.5°	483.3	485.7	486.9	484.6	486.9	485.7	483.3	476.3	458.7	455.2	444.6
65°	432.9	435.3	436.5	434.1	436.5	435.3	432.9	429.4	416.5	410.6	401.3
67.5°	381.3	380.2	379.0	383.6	379.0	380.2	381.3	376.6	368.4	363.7	350.8
70°	328.5	328.5	327.3	329.7	327.3	328.5	328.5	325.0	320.3	316.7	305.0
72.5°	272.2	271.0	275.7	272.2	275.7	271.0	272.2	271.0	268.7	265.2	253.4
75°	217.0	219.4	217.0	220.6	217.0	219.4	217.0	218.2	217.0	214.7	206.5
77.5°	165.4	167.7	165.4	165.4	165.4	167.7	165.4	166.6	166.6	166.6	159.6
80°	117.3	116.2	116.2	115.0	116.2	116.2	117.3	117.3	118.5	116.2	113.8
82.5°	75.1	73.9	73.9	76.3	73.9	73.9	75.1	76.3	73.9	73.9	73.9
85°	41.0	42.3	39.9	39.9	39.9	42.3	41.0	38.7	41.0	41.0	39.9
87.5°	15.3	14.1	14.1	14.1	14.1	14.1	15.3	16.4	16.4	16.4	17.6
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8
92.5°	16.9	16.2	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5
95°	57.4	55.3	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0
97.5°	132.4	128.5	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6
100°	185.9	181.3	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5
102.5°	231.7	227.7	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8
105°	285.0	282.9	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3
107.5°	312.8	313.4	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4
110°	319.9	322.2	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	315.4	318.8	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8
115°	300.0	304.7	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7
117.5°	278.7	284.0	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8
120°	264.4	269.5	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5
122.5°	250.1	255.0	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7
125°	231.1	235.8	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2
127.5°	216.0	219.9	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9
130°	206.4	209.9	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1
132.5°	198.2	201.4	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2
135°	186.6	189.3	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1
137.5°	178.0	180.4	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8
140°	171.2	173.3	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0
142.5°	166.4	168.3	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5
145°	159.2	160.6	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5
147.5°	153.2	154.3	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3
150°	149.7	150.6	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8
152.5°	147.0	147.7	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0
155°	143.7	144.1	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7
157.5°	140.7	141.1	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4
160°	139.3	139.5	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6
162.5°	138.0	138.2	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0
165°	136.0	136.1	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4
167.5°	135.1	135.2	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3
170°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7
172.5°	134.4	134.3	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9
177.5°	133.2	133.1	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1224.9	1230.8	1234.2	1238.9	1250.7
5°	1177.9	1200.2	1207.3	1224.9	1246.0
7.5°	1074.7	1142.8	1161.5	1203.8	1236.6
10°	974.9	1043.0	1075.9	1175.6	1224.9
12.5°	924.5	964.5	986.7	1126.3	1208.5
15°	892.9	921.0	937.5	1060.6	1189.7
17.5°	868.2	888.2	899.9	996.1	1163.9
20°	852.9	862.3	872.9	949.2	1134.5
22.5°	842.4	836.5	844.8	916.3	1094.6
25°	835.3	813.1	822.5	890.5	1047.8
27.5°	841.2	791.9	795.5	867.0	998.5
30°	842.4	766.2	767.3	842.4	943.3
32.5°	834.2	739.2	740.3	811.9	881.1
35°	814.2	707.5	706.3	776.7	796.6
37.5°	787.2	673.5	673.5	738.0	703.9
40°	754.4	639.4	642.9	687.5	621.9
42.5°	714.5	603.0	607.7	620.6	560.9
45°	671.1	567.9	571.3	524.5	513.9
47.5°	623.0	531.5	532.6	435.3	498.6
50°	565.5	493.9	489.3	373.1	497.5
52.5°	515.0	452.9	438.8	337.9	451.7
55°	465.8	409.5	379.0	310.9	418.9
57.5°	422.3	353.2	323.9	279.3	411.9
60°	382.5	298.0	275.7	245.2	377.8
62.5°	349.6	257.0	252.3	221.7	342.6
65°	314.4	228.7	227.6	201.8	291.0
67.5°	280.4	210.0	208.9	183.0	221.7
70°	244.0	190.0	187.7	163.1	164.3
72.5°	206.5	167.7	165.4	146.7	136.1
75°	169.0	142.0	140.7	127.9	110.3
77.5°	132.6	112.6	115.0	103.3	81.0
80°	95.0	82.1	84.4	73.9	61.0
82.5°	63.3	54.0	56.3	46.9	41.0
85°	35.2	30.5	31.7	24.6	18.7
87.5°	16.4	14.1	14.1	9.4	5.9
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.2	17.1	15.6	9.6	3.6
95°	59.4	33.5	30.7	19.6	8.5
97.5°	80.0	36.8	34.3	24.5	14.7
100°	87.5	39.5	37.3	28.4	19.5
102.5°	90.9	42.3	40.2	31.9	23.6
105°	93.5	46.4	44.6	37.7	30.6
107.5°	94.0	52.4	50.8	44.2	37.7
110°	93.2	55.8	54.3	48.4	42.5



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CATALOG NUMBER: SQ4-FA-025U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	93.2	59.9	58.4	52.8	47.2
115°	94.1	66.0	64.6	59.5	54.3
117.5°	95.9	71.9	70.8	66.1	61.4
120°	97.2	75.4	74.3	69.9	65.4
122.5°	99.3	79.5	78.3	73.9	69.4
125°	102.1	84.8	83.7	79.7	75.6
127.5°	104.9	89.9	88.8	84.7	80.5
130°	106.9	93.2	92.1	87.6	83.2
132.5°	108.5	96.0	94.9	90.5	86.0
135°	110.3	99.2	98.2	94.1	90.1
137.5°	113.0	103.3	102.3	98.3	94.3
140°	114.6	106.0	105.1	101.4	97.8
142.5°	116.0	108.1	107.2	103.8	100.4
145°	117.7	111.2	110.5	107.4	104.5
147.5°	120.3	115.1	114.4	111.4	108.6
150°	121.7	117.1	116.5	113.8	111.3
152.5°	122.5	118.5	117.9	116.0	114.0
155°	124.5	121.4	121.0	119.5	118.1
157.5°	126.5	124.3	124.0	122.5	121.1
160°	127.3	125.7	125.4	124.2	123.2
162.5°	128.3	127.1	126.9	126.0	125.2
165°	129.6	129.1	128.9	128.1	127.4
167.5°	130.7	130.3	130.2	129.8	129.5
170°	131.6	131.6	131.5	131.2	130.8
172.5°	131.7	131.7	131.7	131.6	131.5
175°	132.2	132.5	132.5	132.5	132.5
177.5°	132.3	132.5	132.5	132.5	132.5
180°	132.5	132.5	132.5	132.5	132.5



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.62	16.81	16.28	17.49	18.28	18.41	19.61	19.07	20.29	21.08
	3H	16.12	17.20	16.79	17.88	18.71	19.77	20.85	20.45	21.54	22.36
	4H	16.32	17.34	17.02	18.04	18.87	20.23	21.24	20.92	21.94	22.78
	6H	16.46	17.40	17.17	18.11	18.96	20.52	21.46	21.23	22.17	23.02
	8H	16.47	17.37	17.19	18.10	18.95	20.60	21.49	21.32	22.22	23.08
	12H	16.45	17.31	17.18	18.03	18.91	20.65	21.50	21.37	22.22	23.10
4H	2H	16.68	17.70	17.38	18.40	19.23	18.86	19.88	19.56	20.58	21.41
	3H	17.74	18.58	18.45	19.32	20.17	20.39	21.24	21.10	21.97	22.83
	4H	18.03	18.80	18.76	19.54	20.42	20.93	21.69	21.65	22.43	23.32
	6H	18.17	18.84	18.92	19.60	20.50	21.30	21.97	22.05	22.73	23.62
	8H	18.19	18.81	18.94	19.57	20.47	21.41	22.03	22.16	22.80	23.70
	12H	18.17	18.73	18.94	19.51	20.42	21.48	22.04	22.25	22.82	23.73
8H	4H	18.50	19.13	19.25	19.89	20.79	21.08	21.70	21.83	22.46	23.37
	6H	18.78	19.30	19.56	20.10	21.00	21.52	22.04	22.30	22.84	23.75
	8H	18.82	19.28	19.62	20.09	21.01	21.67	22.13	22.46	22.93	23.86
	12H	18.82	19.23	19.62	20.02	21.00	21.78	22.18	22.57	22.98	23.96
12H	4H	18.52	19.08	19.30	19.87	20.78	21.06	21.62	21.83	22.40	23.31
	6H	18.84	19.30	19.63	20.10	21.03	21.52	21.98	22.31	22.78	23.71
	8H	18.92	19.33	19.72	20.12	21.10	21.69	22.10	22.49	22.89	23.87