

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: P934457

Luminaire Tested: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934457
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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: -

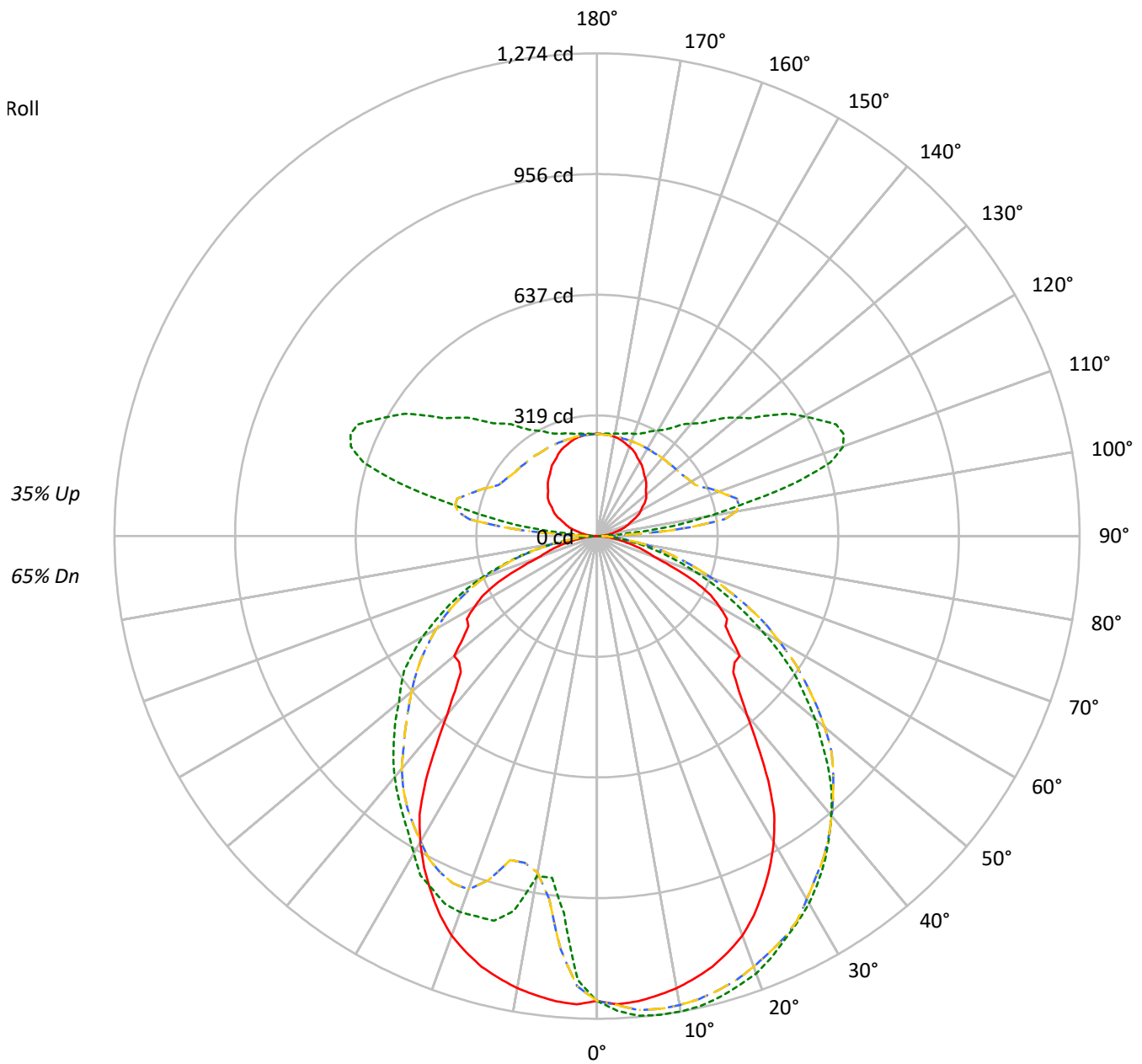
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4929.9 lumens
Efficiency: N/A
Efficacy: 109.1 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): 45.2
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	0
RCR																		
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16

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	2.2
10°-20°	314.4	6.4
20°-30°	486.0	9.9
30°-40°	580.1	11.8
40°-50°	583.5	11.8
50°-60°	507.7	10.3
60°-70°	360.0	7.3
70°-80°	190.5	3.9
80°-90°	48.5	1.0
90°-100°	131.5	2.7
100°-110°	345.7	7.0
110°-120°	358.4	7.3
120°-130°	287.5	5.8
130°-140°	225.6	4.6
140°-150°	173.1	3.5
150°-160°	124.7	2.5
160°-170°	76.3	1.5
170°-180°	25.8	0.5
0°-30°	911.0	18.5
0°-40°	1491.2	30.2
0°-60°	2582.4	52.4
0°-90°	3181.4	64.5
90°-120°	835.6	16.9
90°-150°	1521.8	30.9
90°-180°	1749.0	35.5
0°-180°	4929.9	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°	2	7	2	7	2	2
95°	17	80	17	80	17	19
105°	62	541	62	541	62	66
115°	111	697	111	697	111	109
125°	154	555	154	555	154	137
135°	183	431	183	431	183	142
145°	213	349	213	349	213	133
155°	240	301	240	301	240	110
165°	260	280	260	280	260	73
175°	270	272	270	272	270	26
180°	270	270	270	270	270	



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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°	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1	6.9	6.9
92.5°	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7	34.4	33.0
95°	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3	116.7	112.6
97.5°	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6	269.6	261.6
100°	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9	378.5	369.1
102.5°	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1	471.6	463.5
105°	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2	580.2	575.9
107.5°	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6	636.7	637.7
110°	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2	651.2	655.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6	642.0	648.9
115°	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1	610.6	620.2
117.5°	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7	567.3	577.9
120°	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5	538.2	548.6
122.5°	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7	509.1	519.3
125°	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5	470.5	479.9
127.5°	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5	439.5	447.4
130°	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1	420.0	427.3
132.5°	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5	403.3	409.9
135°	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1	379.8	385.4
137.5°	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4	362.4	367.0
140°	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7	348.5	352.8
142.5°	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1	338.7	342.4
145°	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8	324.0	326.8
147.5°	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6	311.7	314.1
150°	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9	304.7	306.6
152.5°	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2	299.1	300.5
155°	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7	292.4	293.4
157.5°	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8	286.6	287.3
160°	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9	283.7	284.0
162.5°	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1	281.0	281.3
165°	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2	276.8	277.1
167.5°	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7	275.0	275.2
170°	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7	275.0	275.0
172.5°	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7	273.5	273.3
175°	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4	271.6	271.6
177.5°	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3	271.2	271.0
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



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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°	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9	8.0	5.1
92.5°	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0	49.1	35.0
95°	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2	120.9	68.1
97.5°	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2	162.7	74.7
100°	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3	178.0	80.4
102.5°	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2	185.1	86.0
105°	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2	190.2	94.3
107.5°	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1	191.2	106.6
110°	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5	189.8	113.5



TEST NUMBER: P934457

CATALOG NUMBER: SQ4-FA-050U-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°	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5	189.8	121.8
115°	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9	191.6	134.3
117.5°	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1	195.2	146.4
120°	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4	198.1	153.5
122.5°	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0	202.2	161.9
125°	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9	207.8	172.5
127.5°	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3	213.4	182.9
130°	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6	217.6	189.7
132.5°	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9	220.9	195.3
135°	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6	224.5	201.8
137.5°	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2	229.9	210.2
140°	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5	233.2	215.8
142.5°	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3	236.0	219.9
145°	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4	239.6	226.3
147.5°	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2	245.0	234.2
150°	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1	247.7	238.4
152.5°	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7	249.5	241.1
155°	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0	253.5	247.1
157.5°	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3	257.4	253.0
160°	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9	259.3	255.8
162.5°	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6	261.2	258.7
165°	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5	264.0	262.9
167.5°	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4	266.1	265.2
170°	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1	268.0	267.9
172.5°	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4	269.2	269.7
177.5°	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8	269.3	269.7
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934457

CATALOG NUMBER: SQ4-FA-050U-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°	4.7	3.2	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1
92.5°	31.9	19.5	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7
95°	62.4	39.9	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3
97.5°	69.7	49.9	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6
100°	75.9	57.8	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9
102.5°	81.8	65.0	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1
105°	90.7	76.5	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2
107.5°	103.3	90.0	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6
110°	110.5	98.5	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2



TEST NUMBER: P934457

CATALOG NUMBER: SQ4-FA-050U-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°	118.9	107.5	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6
115°	131.7	121.1	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1
117.5°	144.0	134.5	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7
120°	151.2	142.3	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5
122.5°	159.6	150.5	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7
125°	170.4	162.1	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5
127.5°	180.8	172.4	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5
130°	187.4	178.5	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1
132.5°	193.1	184.1	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5
135°	199.8	191.6	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1
137.5°	208.2	200.0	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4
140°	214.0	206.4	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7
142.5°	218.2	211.3	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1
145°	224.8	218.7	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8
147.5°	232.7	227.0	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6
150°	237.1	231.7	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9
152.5°	240.1	236.1	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2
155°	246.4	243.4	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7
157.5°	252.3	249.4	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8
160°	255.2	253.0	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9
162.5°	258.2	256.6	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1
165°	262.5	260.9	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2
167.5°	265.0	264.3	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7
170°	267.7	267.0	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7
172.5°	268.1	267.9	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7
175°	269.7	269.7	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4
177.5°	269.7	269.7	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934457

CATALOG NUMBER: SQ4-FA-050U-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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9
92.5°	34.4	33.0	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0
95°	116.7	112.6	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2
97.5°	269.6	261.6	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2
100°	378.5	369.1	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3
102.5°	471.6	463.5	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2
105°	580.2	575.9	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2
107.5°	636.7	637.7	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1
110°	651.2	655.7	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5



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CATALOG NUMBER: SQ4-FA-050U-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°	642.0	648.9	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5
115°	610.6	620.2	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9
117.5°	567.3	577.9	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1
120°	538.2	548.6	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4
122.5°	509.1	519.3	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0
125°	470.5	479.9	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9
127.5°	439.5	447.4	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3
130°	420.0	427.3	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6
132.5°	403.3	409.9	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9
135°	379.8	385.4	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6
137.5°	362.4	367.0	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2
140°	348.5	352.8	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5
142.5°	338.7	342.4	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3
145°	324.0	326.8	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4
147.5°	311.7	314.1	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2
150°	304.7	306.6	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1
152.5°	299.1	300.5	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7
155°	292.4	293.4	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0
157.5°	286.6	287.3	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3
160°	283.7	284.0	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9
162.5°	281.0	281.3	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6
165°	276.8	277.1	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5
167.5°	275.0	275.2	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4
170°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1
172.5°	273.5	273.3	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4
177.5°	271.2	271.0	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



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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°	8.0	5.1	4.7	3.2	1.8
92.5°	49.1	35.0	31.9	19.5	7.2
95°	120.9	68.1	62.4	39.9	17.4
97.5°	162.7	74.7	69.7	49.9	30.0
100°	178.0	80.4	75.9	57.8	39.8
102.5°	185.1	86.0	81.8	65.0	48.1
105°	190.2	94.3	90.7	76.5	62.3
107.5°	191.2	106.6	103.3	90.0	76.8
110°	189.8	113.5	110.5	98.5	86.5



TEST NUMBER: P934457

CATALOG NUMBER: SQ4-FA-050U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	189.8	121.8	118.9	107.5	96.1
115°	191.6	134.3	131.7	121.1	110.6
117.5°	195.2	146.4	144.0	134.5	124.9
120°	198.1	153.5	151.2	142.3	133.2
122.5°	202.2	161.9	159.6	150.5	141.4
125°	207.8	172.5	170.4	162.1	153.9
127.5°	213.4	182.9	180.8	172.4	164.0
130°	217.6	189.7	187.4	178.5	169.4
132.5°	220.9	195.3	193.1	184.1	175.0
135°	224.5	201.8	199.8	191.6	183.4
137.5°	229.9	210.2	208.2	200.0	191.9
140°	233.2	215.8	214.0	206.4	198.9
142.5°	236.0	219.9	218.2	211.3	204.4
145°	239.6	226.3	224.8	218.7	212.7
147.5°	245.0	234.2	232.7	227.0	221.1
150°	247.7	238.4	237.1	231.7	226.4
152.5°	249.5	241.1	240.1	236.1	232.0
155°	253.5	247.1	246.4	243.4	240.4
157.5°	257.4	253.0	252.3	249.4	246.5
160°	259.3	255.8	255.2	253.0	250.8
162.5°	261.2	258.7	258.2	256.6	254.9
165°	264.0	262.9	262.5	260.9	259.5
167.5°	266.1	265.2	265.0	264.3	263.6
170°	268.0	267.9	267.7	267.0	266.3
172.5°	268.1	268.1	268.1	267.9	267.7
175°	269.2	269.7	269.7	269.7	269.7
177.5°	269.3	269.7	269.7	269.7	269.7
180°	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934457
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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	14.49	15.49	15.31	16.34	17.39	17.28	18.29	18.10	19.14	20.18
	3H	14.97	15.88	15.81	16.73	17.81	18.63	19.54	19.47	20.39	21.46
	4H	15.17	16.03	16.02	16.89	17.97	19.08	19.93	19.93	20.79	21.88
	6H	15.30	16.09	16.16	16.96	18.06	19.36	20.15	20.22	21.02	22.12
	8H	15.30	16.06	16.18	16.94	18.04	19.43	20.19	20.31	21.07	22.17
	12H	15.28	16.00	16.16	16.88	18.00	19.47	20.19	20.35	21.07	22.19
4H	2H	15.53	16.38	16.38	17.24	18.33	17.71	18.57	18.57	19.43	20.51
	3H	16.57	17.28	17.44	18.17	19.28	19.22	19.93	20.09	20.83	21.93
	4H	16.85	17.50	17.73	18.39	19.52	19.75	20.40	20.63	21.29	22.42
	6H	16.99	17.55	17.88	18.46	19.59	20.12	20.68	21.01	21.59	22.72
	8H	16.99	17.52	17.89	18.43	19.57	20.22	20.74	21.12	21.65	22.80
	12H	16.97	17.44	17.89	18.37	19.52	20.28	20.75	21.20	21.68	22.83
8H	4H	17.31	17.84	18.21	18.74	19.89	19.89	20.41	20.79	21.32	22.46
	6H	17.58	18.01	18.50	18.96	20.11	20.32	20.75	21.25	21.71	22.85
	8H	17.62	18.01	18.56	18.95	20.11	20.47	20.85	21.41	21.80	22.96
	12H	17.61	17.95	18.55	18.89	20.10	20.57	20.91	21.51	21.84	23.05
12H	4H	17.32	17.80	18.24	18.72	19.87	19.86	20.33	20.78	21.26	22.41
	6H	17.64	18.02	18.57	18.97	20.13	20.32	20.70	21.26	21.65	22.81
	8H	17.71	18.05	18.65	18.99	20.20	20.48	20.82	21.42	21.76	22.97