

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: P934267

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934267
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

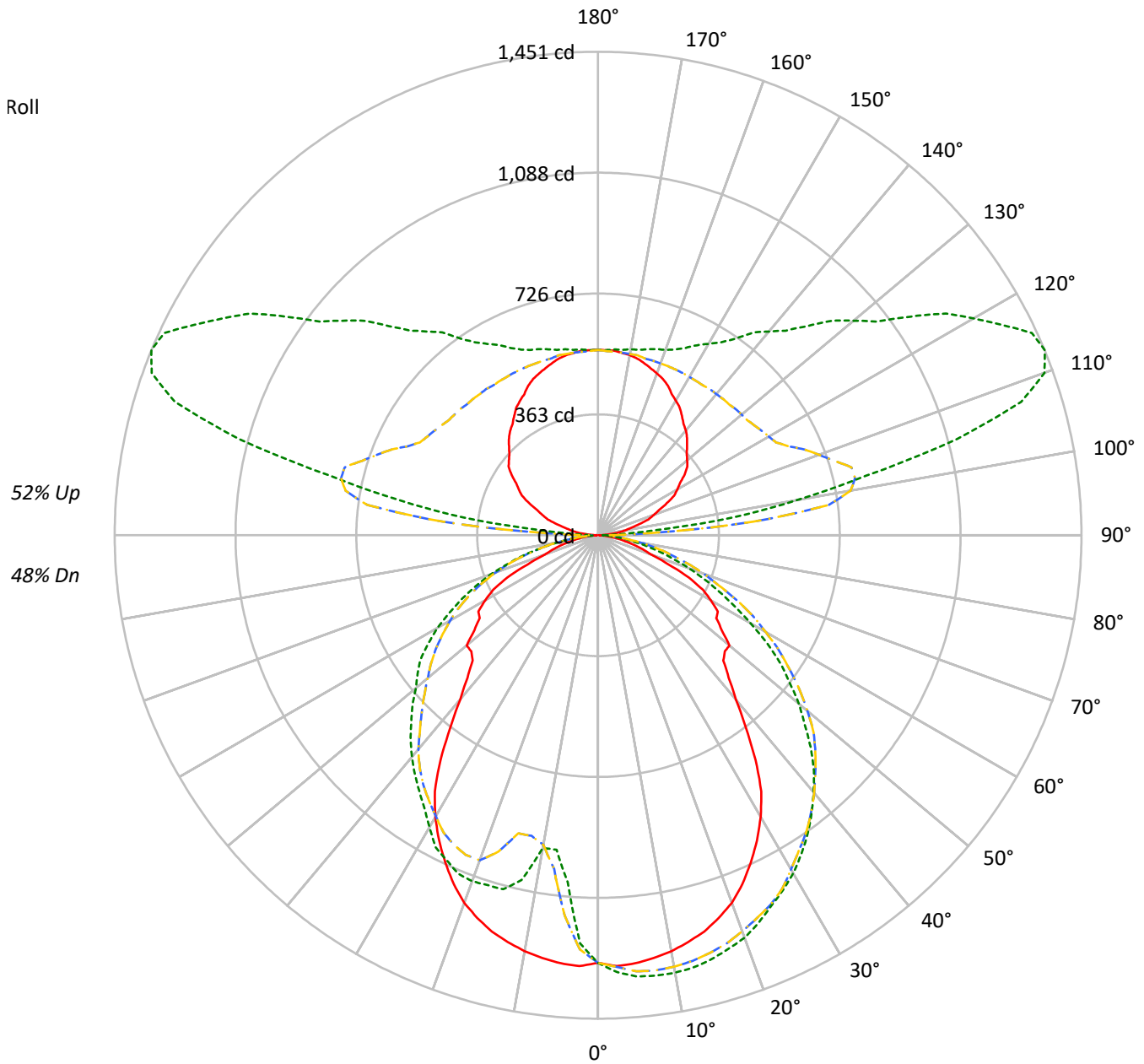
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6933.6 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 56.8
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: P934267
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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				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	5999	6010	5999	4726
10°	5958	5921	5958	4232
15°	5894	5792	5894	4837
20°	5770	5640	5770	4847
25°	5518	5419	5518	4744
30°	5192	5235	5192	4518
35°	4628	5002	4628	4270
40°	3857	4727	3857	4083
45°	3446	4407	3446	3868
50°	3661	4025	3661	3652
55°	3444	3613	3444	3527
60°	3550	3069	3550	3230
65°	3219	2536	3219	2835
70°	2230	2021	2230	2377
75°	1954	1494	1954	1790
80°	1574	988	1574	1075
85°	908	524	908	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	1.7
10°-20°	328.9	4.7
20°-30°	508.4	7.3
30°-40°	606.9	8.8
40°-50°	610.5	8.8
50°-60°	531.2	7.7
60°-70°	376.6	5.4
70°-80°	199.3	2.9
80°-90°	51.8	0.7
90°-100°	271.0	3.9
100°-110°	712.5	10.3
110°-120°	738.8	10.7
120°-130°	592.6	8.5
130°-140°	465.0	6.7
140°-150°	356.9	5.1
150°-160°	257.0	3.7
160°-170°	157.3	2.3
170°-180°	53.1	0.8
0°-30°	953.2	13.7
0°-40°	1560.1	22.5
0°-60°	2701.8	39.0
0°-90°	3329.5	48.0
90°-120°	1722.2	24.8
90°-150°	3136.7	45.2
90°-180°	3604.0	52.0
0°-180°	6933.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1283	1283	1283	1283	1283	
5°	1289	1329	1289	1045	1289	122
15°	1231	1317	1231	1100	1231	346
25°	1084	1229	1084	1076	1084	498
35°	824	1096	824	936	824	510
45°	532	903	532	793	532	426
55°	433	667	433	651	433	398
65°	301	402	301	449	301	288
75°	114	191	114	228	114	120
85°	20	49	20	41	20	26
90°	4	14	4	14	4	4
95°	36	164	36	164	36	40
105°	128	1116	128	1116	128	136
115°	228	1436	228	1436	228	225
125°	317	1144	317	1144	317	282
135°	378	888	378	888	378	292
145°	438	720	438	720	438	275
155°	496	620	496	620	496	228
165°	535	578	535	578	535	151
175°	556	560	556	560	556	53
180°	556	556	556	556	556	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1294.2	1294.2	1301.5	1304.0	1304.0	1300.3	1296.6	1300.3	1311.2	1314.8	1313.7
5°	1289.4	1299.1	1312.5	1314.8	1317.3	1316.1	1313.7	1316.1	1328.2	1330.7	1331.9
7.5°	1279.6	1297.9	1314.8	1318.5	1322.2	1318.5	1317.3	1319.7	1331.9	1334.3	1334.3
10°	1267.5	1293.0	1312.5	1314.8	1318.5	1314.8	1314.8	1319.7	1331.9	1334.3	1335.5
12.5°	1250.5	1285.7	1304.0	1306.3	1311.2	1310.0	1308.8	1313.7	1325.8	1328.2	1328.2
15°	1231.1	1272.4	1289.4	1291.8	1300.3	1297.9	1297.9	1302.7	1316.1	1319.7	1318.5
17.5°	1204.4	1255.4	1274.8	1278.4	1284.5	1283.3	1284.5	1289.4	1301.5	1304.0	1305.2
20°	1174.0	1232.3	1255.4	1259.0	1265.1	1265.1	1265.1	1271.1	1283.3	1288.1	1288.1
22.5°	1132.7	1208.0	1232.3	1234.7	1242.1	1242.1	1244.4	1252.9	1263.9	1265.1	1265.1
25°	1084.2	1181.3	1202.0	1209.2	1216.5	1220.2	1223.8	1228.7	1232.3	1231.1	1232.3
27.5°	1033.2	1147.3	1174.0	1178.9	1188.6	1192.3	1197.1	1198.3	1199.5	1203.1	1200.8
30°	976.1	1100.0	1140.1	1144.9	1160.7	1163.1	1158.2	1160.7	1166.8	1169.2	1171.6
32.5°	911.8	1029.5	1104.8	1115.8	1130.4	1123.0	1121.9	1125.5	1135.2	1135.2	1137.6
35°	824.3	974.9	1072.1	1081.8	1092.7	1084.2	1089.1	1090.3	1096.3	1100.0	1098.8
37.5°	728.5	927.6	1038.0	1045.4	1053.9	1042.9	1050.2	1053.9	1058.7	1056.2	1056.2
40°	643.5	853.5	998.0	1002.8	1010.2	1001.7	1008.9	1011.3	1013.8	1011.3	1010.2
42.5°	580.3	772.2	955.5	961.6	956.7	962.8	965.2	970.1	966.4	961.6	961.6
45°	531.8	750.3	909.3	916.7	909.3	919.1	922.7	922.7	911.8	909.3	908.1
47.5°	516.0	706.6	863.3	863.3	859.5	871.8	877.8	869.3	858.4	854.7	854.7
50°	514.8	658.1	800.1	795.3	812.2	826.8	820.7	812.2	803.7	790.4	790.4
52.5°	467.4	598.6	718.8	737.0	763.7	772.2	762.4	754.0	739.4	733.3	728.5
55°	433.4	536.7	644.7	681.1	709.0	720.0	701.8	693.3	671.4	667.7	665.3
57.5°	426.1	446.8	576.7	622.8	656.8	655.6	644.7	628.9	610.7	607.1	605.8
60°	390.9	323.0	503.8	558.5	593.7	590.1	580.3	565.7	548.8	546.4	543.9
62.5°	354.6	234.3	421.3	483.2	533.0	531.8	523.3	501.5	489.2	483.2	478.4
65°	301.1	196.7	299.9	401.9	473.5	475.9	457.7	441.9	428.6	421.3	420.1
67.5°	229.5	160.3	202.8	335.1	416.5	414.0	390.9	383.7	366.7	363.1	355.7
70°	170.0	106.8	140.8	272.0	360.6	354.6	336.3	327.8	312.0	303.5	298.7
72.5°	140.8	86.2	103.2	211.3	303.5	296.3	280.4	270.7	257.4	250.1	245.2
75°	114.1	91.1	78.9	156.6	246.5	241.6	227.0	217.3	206.4	196.7	197.9
77.5°	83.8	85.0	63.1	115.3	195.5	188.2	179.7	167.5	162.7	153.0	153.0
80°	63.1	66.8	47.3	78.9	140.8	140.8	133.5	125.1	116.6	111.7	111.7
82.5°	42.5	42.5	35.2	49.8	95.9	92.2	87.4	85.0	80.1	77.7	77.7
85°	19.5	24.3	21.8	30.3	52.2	54.7	54.7	52.2	51.0	48.6	49.8
87.5°	6.1	11.0	13.4	17.0	26.7	28.0	29.1	29.1	29.1	30.3	30.3
90°	3.7	6.7	9.7	10.4	16.4	24.3	28.3	25.2	18.9	14.2	14.2
92.5°	14.9	40.3	65.7	72.1	101.3	140.2	159.7	139.9	100.5	70.9	68.1
95°	35.8	82.3	128.7	140.3	249.1	394.2	466.8	416.6	316.1	240.7	232.2
97.5°	61.9	102.8	143.8	154.1	335.5	577.5	698.5	666.7	603.2	555.6	539.3
100°	82.1	119.2	156.3	165.6	367.0	635.5	769.7	772.1	776.7	780.2	760.8
102.5°	99.3	134.0	168.5	177.2	381.4	653.8	789.9	830.4	911.3	972.0	955.4
105°	128.4	157.7	187.1	194.4	392.2	655.9	787.7	878.4	1059.9	1195.9	1186.9
107.5°	158.2	185.6	212.9	219.8	394.1	626.6	742.9	869.4	1122.5	1312.3	1314.5
110°	178.3	203.0	227.8	234.0	391.2	600.8	705.6	847.0	1129.9	1342.1	1351.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	198.1	221.7	245.2	251.1	391.3	578.2	671.6	816.4	1105.9	1323.1	1337.4
115°	228.0	249.7	271.5	276.9	394.9	552.3	631.0	770.5	1049.4	1258.5	1278.3
117.5°	257.4	277.2	296.9	301.9	402.3	536.0	602.9	728.8	980.6	1169.4	1191.3
120°	274.6	293.2	311.8	316.4	408.2	530.6	591.8	706.7	936.8	1109.3	1130.5
122.5°	291.4	310.1	328.8	333.6	416.7	527.7	583.2	686.7	893.9	1049.3	1070.3
125°	317.2	334.2	351.3	355.5	428.3	525.4	573.9	661.9	837.8	969.8	989.2
127.5°	338.1	355.3	372.5	376.8	439.9	524.0	566.0	641.6	792.6	906.0	922.3
130°	349.2	367.8	386.4	391.0	448.3	524.8	563.0	630.3	764.8	865.6	880.7
132.5°	360.8	379.4	398.0	402.6	455.2	525.4	560.5	620.7	741.1	831.3	844.8
135°	378.0	394.9	411.8	416.0	462.6	524.8	555.9	606.4	707.2	782.8	794.5
137.5°	395.6	412.3	429.0	433.2	473.9	528.1	555.2	597.9	683.1	747.0	756.5
140°	410.0	425.5	440.9	444.8	480.7	528.6	552.6	589.4	663.0	718.2	727.1
142.5°	421.3	435.5	449.8	453.3	486.4	530.5	552.6	584.9	649.6	698.2	705.8
145°	438.5	450.9	463.4	466.4	493.9	530.6	548.9	575.3	628.3	667.9	673.7
147.5°	455.6	467.7	479.8	482.8	504.8	534.2	548.9	569.7	611.3	642.5	647.3
150°	466.8	477.7	488.7	491.4	510.6	536.1	548.9	566.4	601.7	628.0	631.9
152.5°	478.4	486.7	494.9	497.0	514.3	537.4	548.9	563.9	593.9	616.4	619.4
155°	495.5	501.6	507.8	509.3	522.5	540.1	548.9	560.8	584.6	602.6	604.6
157.5°	508.2	514.1	520.1	521.6	530.7	542.8	548.9	558.1	576.7	590.6	592.0
160°	516.8	521.5	526.1	527.3	534.5	544.1	548.9	556.9	572.7	584.6	585.5
162.5°	525.4	528.9	532.3	533.2	538.5	545.5	548.9	555.6	569.1	579.1	579.8
165°	534.7	537.8	540.9	541.7	544.1	547.3	548.9	553.7	563.3	570.5	571.3
167.5°	543.3	544.7	546.3	546.6	548.6	551.2	552.6	555.8	562.1	566.8	567.2
170°	548.9	550.3	551.9	552.2	552.3	552.5	552.6	555.8	562.1	566.8	566.8
172.5°	551.9	552.2	552.5	552.6	552.6	552.6	552.6	555.1	560.1	563.8	563.6
175°	555.9	555.9	555.9	555.9	554.9	553.3	552.6	554.1	557.3	559.7	559.7
177.5°	555.9	555.9	555.9	555.9	555.0	553.9	553.3	554.6	557.0	558.9	558.6
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1316.1	1312.5	1316.1	1313.7	1314.8	1311.2	1300.3	1296.6	1300.3	1304.0	1304.0
5°	1331.9	1329.4	1331.9	1331.9	1330.7	1328.2	1316.1	1313.7	1316.1	1317.3	1314.8
7.5°	1336.7	1333.1	1336.7	1334.3	1334.3	1331.9	1319.7	1317.3	1318.5	1322.2	1318.5
10°	1336.7	1333.1	1336.7	1335.5	1334.3	1331.9	1319.7	1314.8	1314.8	1318.5	1314.8
12.5°	1330.7	1328.2	1330.7	1328.2	1328.2	1325.8	1313.7	1308.8	1310.0	1311.2	1306.3
15°	1320.9	1317.3	1320.9	1318.5	1319.7	1316.1	1302.7	1297.9	1297.9	1300.3	1291.8
17.5°	1306.3	1301.5	1306.3	1305.2	1304.0	1301.5	1289.4	1284.5	1283.3	1284.5	1278.4
20°	1289.4	1285.7	1289.4	1288.1	1288.1	1283.3	1271.1	1265.1	1265.1	1265.1	1259.0
22.5°	1262.7	1259.0	1262.7	1265.1	1265.1	1263.9	1252.9	1244.4	1242.1	1242.1	1234.7
25°	1232.3	1228.7	1232.3	1232.3	1231.1	1232.3	1228.7	1223.8	1220.2	1216.5	1209.2
27.5°	1203.1	1200.8	1203.1	1200.8	1203.1	1199.5	1198.3	1197.1	1192.3	1188.6	1178.9
30°	1174.0	1171.6	1174.0	1171.6	1169.2	1166.8	1160.7	1158.2	1163.1	1160.7	1144.9
32.5°	1137.6	1135.2	1137.6	1137.6	1135.2	1135.2	1125.5	1121.9	1123.0	1130.4	1115.8
35°	1100.0	1096.3	1100.0	1098.8	1100.0	1096.3	1090.3	1089.1	1084.2	1092.7	1081.8
37.5°	1056.2	1052.6	1056.2	1056.2	1056.2	1058.7	1053.9	1050.2	1042.9	1053.9	1045.4
40°	1011.3	1006.4	1011.3	1010.2	1011.3	1013.8	1011.3	1008.9	1001.7	1010.2	1002.8
42.5°	960.4	959.1	960.4	961.6	961.6	966.4	970.1	965.2	962.8	956.7	961.6
45°	905.7	903.3	905.7	908.1	909.3	911.8	922.7	922.7	919.1	909.3	916.7
47.5°	847.4	841.3	847.4	854.7	854.7	858.4	869.3	877.8	871.8	859.5	863.3
50°	785.5	786.8	785.5	790.4	790.4	803.7	812.2	820.7	826.8	812.2	795.3
52.5°	724.9	723.6	724.9	728.5	733.3	739.4	754.0	762.4	772.2	763.7	737.0
55°	664.1	666.6	664.1	665.3	667.7	671.4	693.3	701.8	720.0	709.0	681.1
57.5°	603.4	599.8	603.4	605.8	607.1	610.7	628.9	644.7	655.6	656.8	622.8
60°	533.0	528.2	533.0	543.9	546.4	548.8	565.7	580.3	590.1	593.7	558.5
62.5°	471.0	462.5	471.0	478.4	483.2	489.2	501.5	523.3	531.8	533.0	483.2
65°	405.5	401.9	405.5	420.1	421.3	428.6	441.9	457.7	475.9	473.5	401.9
67.5°	346.0	346.0	346.0	355.7	363.1	366.7	383.7	390.9	414.0	416.5	335.1
70°	291.4	290.2	291.4	298.7	303.5	312.0	327.8	336.3	354.6	360.6	272.0
72.5°	239.1	238.0	239.1	245.2	250.1	257.4	270.7	280.4	296.3	303.5	211.3
75°	193.1	190.6	193.1	197.9	196.7	206.4	217.3	227.0	241.6	246.5	156.6
77.5°	148.1	148.1	148.1	153.0	153.0	162.7	167.5	179.7	188.2	195.5	115.3
80°	110.5	109.3	110.5	111.7	111.7	116.6	125.1	133.5	140.8	140.8	78.9
82.5°	77.7	75.3	77.7	77.7	77.7	80.1	85.0	87.4	92.2	95.9	49.8
85°	48.6	48.6	48.6	49.8	48.6	51.0	52.2	54.7	54.7	52.2	30.3
87.5°	31.6	30.3	31.6	30.3	30.3	29.1	29.1	29.1	28.0	26.7	17.0
90°	14.2	14.2	14.2	14.2	14.2	18.9	25.2	28.3	24.3	16.4	10.4
92.5°	56.8	45.5	56.8	68.1	70.9	100.5	139.9	159.7	140.2	101.3	72.1
95°	198.0	163.8	198.0	232.2	240.7	316.1	416.6	466.8	394.2	249.1	140.3
97.5°	474.3	409.3	474.3	539.3	555.6	603.2	666.7	698.5	577.5	335.5	154.1
100°	683.4	605.9	683.4	760.8	780.2	776.7	772.1	769.7	635.5	367.0	165.6
102.5°	889.0	822.7	889.0	955.4	972.0	911.3	830.4	789.9	653.8	381.4	177.2
105°	1151.3	1115.6	1151.3	1186.9	1195.9	1059.9	878.4	787.7	655.9	392.2	194.4
107.5°	1323.1	1331.7	1323.1	1314.5	1312.3	1122.5	869.4	742.9	626.6	394.1	219.8
110°	1388.5	1425.7	1388.5	1351.4	1342.1	1129.9	847.0	705.6	600.8	391.2	234.0



TEST NUMBER: P934267

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1394.4	1451.4	1394.4	1337.4	1323.1	1105.9	816.4	671.6	578.2	391.3	251.1
115°	1357.4	1436.5	1357.4	1278.3	1258.5	1049.4	770.5	631.0	552.3	394.9	276.9
117.5°	1279.1	1366.8	1279.1	1191.3	1169.4	980.6	728.8	602.9	536.0	402.3	301.9
120°	1215.8	1301.1	1215.8	1130.5	1109.3	936.8	706.7	591.8	530.6	408.2	316.4
122.5°	1154.4	1238.4	1154.4	1070.3	1049.3	893.9	686.7	583.2	527.7	416.7	333.6
125°	1066.6	1144.0	1066.6	989.2	969.8	837.8	661.9	573.9	525.4	428.3	355.5
127.5°	987.6	1053.0	987.6	922.3	906.0	792.6	641.6	566.0	524.0	439.9	376.8
130°	941.1	1001.5	941.1	880.7	865.6	764.8	630.3	563.0	524.8	448.3	391.0
132.5°	898.9	953.0	898.9	844.8	831.3	741.1	620.7	560.5	525.4	455.2	402.6
135°	841.1	887.7	841.1	794.5	782.8	707.2	606.4	555.9	524.8	462.6	416.0
137.5°	794.7	832.8	794.7	756.5	747.0	683.1	597.9	555.2	528.1	473.9	433.2
140°	762.8	798.4	762.8	727.1	718.2	663.0	589.4	552.6	528.6	480.7	444.8
142.5°	736.4	767.1	736.4	705.8	698.2	649.6	584.9	552.6	530.5	486.4	453.3
145°	697.0	720.1	697.0	673.7	667.9	628.3	575.3	548.9	530.6	493.9	466.4
147.5°	666.6	685.8	666.6	647.3	642.5	611.3	569.7	548.9	534.2	504.8	482.8
150°	647.5	663.0	647.5	631.9	628.0	601.7	566.4	548.9	536.1	510.6	491.4
152.5°	631.2	642.9	631.2	619.4	616.4	593.9	563.9	548.9	537.4	514.3	497.0
155°	612.3	620.1	612.3	604.6	602.6	584.6	560.8	548.9	540.1	522.5	509.3
157.5°	597.5	602.9	597.5	592.0	590.6	576.7	558.1	548.9	542.8	530.7	521.6
160°	588.6	591.8	588.6	585.5	584.6	572.7	556.9	548.9	544.1	534.5	527.3
162.5°	582.8	585.8	582.8	579.8	579.1	569.1	555.6	548.9	545.5	538.5	533.2
165°	574.4	577.6	574.4	571.3	570.5	563.3	553.7	548.9	547.3	544.1	541.7
167.5°	568.4	569.8	568.4	567.2	566.8	562.1	555.8	552.6	551.2	548.6	546.6
170°	566.8	566.8	566.8	566.8	566.8	562.1	555.8	552.6	552.5	552.3	552.2
172.5°	562.4	561.2	562.4	563.6	563.8	560.1	555.1	552.6	552.6	552.6	552.6
175°	559.7	559.7	559.7	559.7	559.7	557.3	554.1	552.6	553.3	554.9	555.9
177.5°	557.3	555.9	557.3	558.6	558.9	557.0	554.6	553.3	553.9	555.0	555.9
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



TEST NUMBER: P934267

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1301.5	1294.2	1294.2	1282.1	1277.3	1273.6	1267.5	1249.3	1244.4	1239.6	1246.9
5°	1312.5	1299.1	1289.4	1267.5	1249.3	1242.1	1219.0	1175.3	1146.1	1124.2	1112.1
7.5°	1314.8	1297.9	1279.6	1245.7	1202.0	1182.5	1112.1	1032.0	1010.2	990.7	978.6
10°	1312.5	1293.0	1267.5	1216.5	1113.3	1079.3	1008.9	956.7	943.4	939.7	943.4
12.5°	1304.0	1285.7	1250.5	1165.6	1021.0	998.0	956.7	926.3	923.9	930.0	962.8
15°	1289.4	1272.4	1231.1	1097.5	970.1	953.0	923.9	913.0	926.3	968.9	1067.2
17.5°	1274.8	1255.4	1204.4	1030.8	931.2	919.1	898.5	920.3	995.6	1052.6	1085.4
20°	1255.4	1232.3	1174.0	982.2	903.3	892.4	882.6	981.0	1038.0	1058.7	1076.9
22.5°	1232.3	1208.0	1132.7	948.2	874.1	865.7	871.8	1015.0	1038.0	1052.6	1068.4
25°	1202.0	1181.3	1084.2	921.5	851.1	841.3	864.4	1011.3	1024.7	1028.4	1059.9
27.5°	1174.0	1147.3	1033.2	897.2	823.2	819.5	870.5	995.6	1005.3	1008.9	1042.9
30°	1140.1	1100.0	976.1	871.8	794.0	792.8	871.8	976.1	973.7	983.5	1017.4
32.5°	1104.8	1029.5	911.8	840.2	766.1	764.9	863.3	947.0	944.5	957.9	983.5
35°	1072.1	974.9	824.3	803.7	730.9	732.1	842.6	913.0	914.2	926.3	942.2
37.5°	1038.0	927.6	728.5	763.7	696.9	696.9	814.6	881.4	879.0	882.6	904.5
40°	998.0	853.5	643.5	711.5	665.3	661.7	780.7	847.4	838.9	837.7	868.0
42.5°	955.5	772.2	580.3	642.3	628.9	624.0	739.4	806.1	790.4	794.0	832.8
45°	909.3	750.3	531.8	542.7	591.3	587.6	694.4	758.8	747.8	757.6	797.6
47.5°	863.3	706.6	516.0	450.4	551.2	550.0	644.7	712.6	706.6	716.3	758.8
50°	800.1	658.1	514.8	386.1	506.3	511.1	585.2	667.7	667.7	676.2	721.1
52.5°	718.8	598.6	467.4	349.7	454.0	468.6	533.0	628.9	631.3	639.9	679.9
55°	644.7	536.7	433.4	321.7	392.1	423.7	482.0	588.8	593.7	602.2	638.6
57.5°	576.7	446.8	426.1	288.9	335.1	365.4	437.1	550.0	552.4	559.7	594.9
60°	503.8	323.0	390.9	253.7	285.3	308.4	395.8	503.8	512.3	517.2	547.5
62.5°	421.3	234.3	354.6	229.5	261.0	265.8	361.8	460.2	471.0	474.8	493.0
65°	299.9	196.7	301.1	208.8	235.5	236.8	325.4	415.2	425.0	431.0	444.3
67.5°	202.8	160.3	229.5	189.4	216.2	217.3	290.2	363.1	376.4	381.3	389.8
70°	140.8	106.8	170.0	168.7	194.2	196.7	252.5	315.6	327.8	331.5	336.3
72.5°	103.2	86.2	140.8	151.8	171.2	173.6	213.7	262.2	274.4	278.1	280.4
75°	78.9	91.1	114.1	132.3	145.7	146.9	174.8	213.7	222.2	224.6	225.8
77.5°	63.1	85.0	83.8	106.8	118.9	116.6	137.2	165.1	172.4	172.4	172.4
80°	47.3	66.8	63.1	76.5	87.4	85.0	98.3	117.8	120.2	122.6	121.4
82.5°	35.2	42.5	42.5	48.6	58.3	55.8	65.5	76.5	76.5	76.5	78.9
85°	21.8	24.3	19.5	25.5	32.8	31.6	36.4	41.3	42.5	42.5	40.1
87.5°	13.4	11.0	6.1	9.7	14.6	14.6	17.0	18.2	17.0	17.0	17.0
90°	9.7	6.7	3.7	6.7	9.7	10.4	16.4	24.3	28.3	25.2	18.9
92.5°	65.7	40.3	14.9	40.3	65.7	72.1	101.3	140.2	159.7	139.9	100.5
95°	128.7	82.3	35.8	82.3	128.7	140.3	249.1	394.2	466.8	416.6	316.1
97.5°	143.8	102.8	61.9	102.8	143.8	154.1	335.5	577.5	698.5	666.7	603.2
100°	156.3	119.2	82.1	119.2	156.3	165.6	367.0	635.5	769.7	772.1	776.7
102.5°	168.5	134.0	99.3	134.0	168.5	177.2	381.4	653.8	789.9	830.4	911.3
105°	187.1	157.7	128.4	157.7	187.1	194.4	392.2	655.9	787.7	878.4	1059.9
107.5°	212.9	185.6	158.2	185.6	212.9	219.8	394.1	626.6	742.9	869.4	1122.5
110°	227.8	203.0	178.3	203.0	227.8	234.0	391.2	600.8	705.6	847.0	1129.9



TEST NUMBER: P934267

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	245.2	221.7	198.1	221.7	245.2	251.1	391.3	578.2	671.6	816.4	1105.9
115°	271.5	249.7	228.0	249.7	271.5	276.9	394.9	552.3	631.0	770.5	1049.4
117.5°	296.9	277.2	257.4	277.2	296.9	301.9	402.3	536.0	602.9	728.8	980.6
120°	311.8	293.2	274.6	293.2	311.8	316.4	408.2	530.6	591.8	706.7	936.8
122.5°	328.8	310.1	291.4	310.1	328.8	333.6	416.7	527.7	583.2	686.7	893.9
125°	351.3	334.2	317.2	334.2	351.3	355.5	428.3	525.4	573.9	661.9	837.8
127.5°	372.5	355.3	338.1	355.3	372.5	376.8	439.9	524.0	566.0	641.6	792.6
130°	386.4	367.8	349.2	367.8	386.4	391.0	448.3	524.8	563.0	630.3	764.8
132.5°	398.0	379.4	360.8	379.4	398.0	402.6	455.2	525.4	560.5	620.7	741.1
135°	411.8	394.9	378.0	394.9	411.8	416.0	462.6	524.8	555.9	606.4	707.2
137.5°	429.0	412.3	395.6	412.3	429.0	433.2	473.9	528.1	555.2	597.9	683.1
140°	440.9	425.5	410.0	425.5	440.9	444.8	480.7	528.6	552.6	589.4	663.0
142.5°	449.8	435.5	421.3	435.5	449.8	453.3	486.4	530.5	552.6	584.9	649.6
145°	463.4	450.9	438.5	450.9	463.4	466.4	493.9	530.6	548.9	575.3	628.3
147.5°	479.8	467.7	455.6	467.7	479.8	482.8	504.8	534.2	548.9	569.7	611.3
150°	488.7	477.7	466.8	477.7	488.7	491.4	510.6	536.1	548.9	566.4	601.7
152.5°	494.9	486.7	478.4	486.7	494.9	497.0	514.3	537.4	548.9	563.9	593.9
155°	507.8	501.6	495.5	501.6	507.8	509.3	522.5	540.1	548.9	560.8	584.6
157.5°	520.1	514.1	508.2	514.1	520.1	521.6	530.7	542.8	548.9	558.1	576.7
160°	526.1	521.5	516.8	521.5	526.1	527.3	534.5	544.1	548.9	556.9	572.7
162.5°	532.3	528.9	525.4	528.9	532.3	533.2	538.5	545.5	548.9	555.6	569.1
165°	540.9	537.8	534.7	537.8	540.9	541.7	544.1	547.3	548.9	553.7	563.3
167.5°	546.3	544.7	543.3	544.7	546.3	546.6	548.6	551.2	552.6	555.8	562.1
170°	551.9	550.3	548.9	550.3	551.9	552.2	552.3	552.5	552.6	555.8	562.1
172.5°	552.5	552.2	551.9	552.2	552.5	552.6	552.6	552.6	552.6	555.1	560.1
175°	555.9	555.9	555.9	555.9	555.9	555.9	554.9	553.3	552.6	554.1	557.3
177.5°	555.9	555.9	555.9	555.9	555.9	555.9	555.0	553.9	553.3	554.6	557.0
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



TEST NUMBER: P934267

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1238.4	1234.7	1239.6	1226.2	1239.6	1234.7	1238.4	1246.9	1239.6	1244.4	1249.3
5°	1086.6	1080.6	1061.1	1045.4	1061.1	1080.6	1086.6	1112.1	1124.2	1146.1	1175.3
7.5°	971.2	966.4	961.6	951.9	961.6	966.4	971.2	978.6	990.7	1010.2	1032.0
10°	945.8	947.0	954.3	953.0	954.3	947.0	945.8	943.4	939.7	943.4	956.7
12.5°	1011.3	1022.3	1062.3	1059.9	1062.3	1022.3	1011.3	962.8	930.0	923.9	926.3
15°	1086.6	1090.3	1098.8	1100.0	1098.8	1090.3	1086.6	1067.2	968.9	926.3	913.0
17.5°	1093.9	1095.2	1101.2	1101.2	1101.2	1095.2	1093.9	1085.4	1052.6	995.6	920.3
20°	1087.8	1090.3	1102.4	1104.8	1102.4	1090.3	1087.8	1076.9	1058.7	1038.0	981.0
22.5°	1085.4	1090.3	1100.0	1098.8	1100.0	1090.3	1085.4	1068.4	1052.6	1038.0	1015.0
25°	1073.2	1073.2	1074.5	1075.7	1074.5	1073.2	1073.2	1059.9	1028.4	1024.7	1011.3
27.5°	1047.7	1050.2	1057.5	1056.2	1057.5	1050.2	1047.7	1042.9	1008.9	1005.3	995.6
30°	1024.7	1022.3	1016.2	1011.3	1016.2	1022.3	1024.7	1017.4	983.5	973.7	976.1
32.5°	985.8	979.7	973.7	970.1	973.7	979.7	985.8	983.5	957.9	944.5	947.0
35°	939.7	940.9	939.7	936.0	939.7	940.9	939.7	942.2	926.3	914.2	913.0
37.5°	907.0	909.3	908.1	903.3	908.1	909.3	907.0	904.5	882.6	879.0	881.4
40°	872.9	874.1	872.9	869.3	872.9	874.1	872.9	868.0	837.7	838.9	847.4
42.5°	840.2	838.9	835.3	832.8	835.3	838.9	840.2	832.8	794.0	790.4	806.1
45°	802.5	803.7	796.5	792.8	796.5	803.7	802.5	797.6	757.6	747.8	758.8
47.5°	764.9	764.9	758.8	755.2	758.8	764.9	764.9	758.8	716.3	706.6	712.6
50°	724.9	723.6	715.1	713.9	715.1	723.6	724.9	721.1	676.2	667.7	667.7
52.5°	678.7	678.7	679.9	682.3	679.9	678.7	678.7	679.9	639.9	631.3	628.9
55°	638.6	639.9	648.4	650.7	648.4	639.9	638.6	638.6	602.2	593.7	588.8
57.5°	597.3	597.3	603.4	603.4	603.4	597.3	597.3	594.9	559.7	552.4	550.0
60°	550.0	552.4	557.3	556.0	557.3	552.4	550.0	547.5	517.2	512.3	503.8
62.5°	500.2	502.6	503.8	501.5	503.8	502.6	500.2	493.0	474.8	471.0	460.2
65°	448.0	450.4	451.7	449.2	451.7	450.4	448.0	444.3	431.0	425.0	415.2
67.5°	394.6	393.4	392.1	397.0	392.1	393.4	394.6	389.8	381.3	376.4	363.1
70°	340.0	340.0	338.7	341.2	338.7	340.0	340.0	336.3	331.5	327.8	315.6
72.5°	281.7	280.4	285.3	281.7	285.3	280.4	281.7	280.4	278.1	274.4	262.2
75°	224.6	227.0	224.6	228.3	224.6	227.0	224.6	225.8	224.6	222.2	213.7
77.5°	171.2	173.6	171.2	171.2	171.2	173.6	171.2	172.4	172.4	172.4	165.1
80°	121.4	120.2	120.2	118.9	120.2	120.2	121.4	121.4	122.6	120.2	117.8
82.5°	77.7	76.5	76.5	78.9	76.5	76.5	77.7	78.9	76.5	76.5	76.5
85°	42.5	43.7	41.3	41.3	41.3	43.7	42.5	40.1	42.5	42.5	41.3
87.5°	15.7	14.6	14.6	14.6	14.6	14.6	15.7	17.0	17.0	17.0	18.2
90°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	18.9	25.2	28.3	24.3
92.5°	70.9	68.1	56.8	45.5	56.8	68.1	70.9	100.5	139.9	159.7	140.2
95°	240.7	232.2	198.0	163.8	198.0	232.2	240.7	316.1	416.6	466.8	394.2
97.5°	555.6	539.3	474.3	409.3	474.3	539.3	555.6	603.2	666.7	698.5	577.5
100°	780.2	760.8	683.4	605.9	683.4	760.8	780.2	776.7	772.1	769.7	635.5
102.5°	972.0	955.4	889.0	822.7	889.0	955.4	972.0	911.3	830.4	789.9	653.8
105°	1195.9	1186.9	1151.3	1115.6	1151.3	1186.9	1195.9	1059.9	878.4	787.7	655.9
107.5°	1312.3	1314.5	1323.1	1331.7	1323.1	1314.5	1312.3	1122.5	869.4	742.9	626.6
110°	1342.1	1351.4	1388.5	1425.7	1388.5	1351.4	1342.1	1129.9	847.0	705.6	600.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1323.1	1337.4	1394.4	1451.4	1394.4	1337.4	1323.1	1105.9	816.4	671.6	578.2
115°	1258.5	1278.3	1357.4	1436.5	1357.4	1278.3	1258.5	1049.4	770.5	631.0	552.3
117.5°	1169.4	1191.3	1279.1	1366.8	1279.1	1191.3	1169.4	980.6	728.8	602.9	536.0
120°	1109.3	1130.5	1215.8	1301.1	1215.8	1130.5	1109.3	936.8	706.7	591.8	530.6
122.5°	1049.3	1070.3	1154.4	1238.4	1154.4	1070.3	1049.3	893.9	686.7	583.2	527.7
125°	969.8	989.2	1066.6	1144.0	1066.6	989.2	969.8	837.8	661.9	573.9	525.4
127.5°	906.0	922.3	987.6	1053.0	987.6	922.3	906.0	792.6	641.6	566.0	524.0
130°	865.6	880.7	941.1	1001.5	941.1	880.7	865.6	764.8	630.3	563.0	524.8
132.5°	831.3	844.8	898.9	953.0	898.9	844.8	831.3	741.1	620.7	560.5	525.4
135°	782.8	794.5	841.1	887.7	841.1	794.5	782.8	707.2	606.4	555.9	524.8
137.5°	747.0	756.5	794.7	832.8	794.7	756.5	747.0	683.1	597.9	555.2	528.1
140°	718.2	727.1	762.8	798.4	762.8	727.1	718.2	663.0	589.4	552.6	528.6
142.5°	698.2	705.8	736.4	767.1	736.4	705.8	698.2	649.6	584.9	552.6	530.5
145°	667.9	673.7	697.0	720.1	697.0	673.7	667.9	628.3	575.3	548.9	530.6
147.5°	642.5	647.3	666.6	685.8	666.6	647.3	642.5	611.3	569.7	548.9	534.2
150°	628.0	631.9	647.5	663.0	647.5	631.9	628.0	601.7	566.4	548.9	536.1
152.5°	616.4	619.4	631.2	642.9	631.2	619.4	616.4	593.9	563.9	548.9	537.4
155°	602.6	604.6	612.3	620.1	612.3	604.6	602.6	584.6	560.8	548.9	540.1
157.5°	590.6	592.0	597.5	602.9	597.5	592.0	590.6	576.7	558.1	548.9	542.8
160°	584.6	585.5	588.6	591.8	588.6	585.5	584.6	572.7	556.9	548.9	544.1
162.5°	579.1	579.8	582.8	585.8	582.8	579.8	579.1	569.1	555.6	548.9	545.5
165°	570.5	571.3	574.4	577.6	574.4	571.3	570.5	563.3	553.7	548.9	547.3
167.5°	566.8	567.2	568.4	569.8	568.4	567.2	566.8	562.1	555.8	552.6	551.2
170°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	562.1	555.8	552.6	552.5
172.5°	563.8	563.6	562.4	561.2	562.4	563.6	563.8	560.1	555.1	552.6	552.6
175°	559.7	559.7	559.7	559.7	559.7	559.7	559.7	557.3	554.1	552.6	553.3
177.5°	558.9	558.6	557.3	555.9	557.3	558.6	558.9	557.0	554.6	553.3	553.9
180°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1267.5	1273.6	1277.3	1282.1	1294.2
5°	1219.0	1242.1	1249.3	1267.5	1289.4
7.5°	1112.1	1182.5	1202.0	1245.7	1279.6
10°	1008.9	1079.3	1113.3	1216.5	1267.5
12.5°	956.7	998.0	1021.0	1165.6	1250.5
15°	923.9	953.0	970.1	1097.5	1231.1
17.5°	898.5	919.1	931.2	1030.8	1204.4
20°	882.6	892.4	903.3	982.2	1174.0
22.5°	871.8	865.7	874.1	948.2	1132.7
25°	864.4	841.3	851.1	921.5	1084.2
27.5°	870.5	819.5	823.2	897.2	1033.2
30°	871.8	792.8	794.0	871.8	976.1
32.5°	863.3	764.9	766.1	840.2	911.8
35°	842.6	732.1	730.9	803.7	824.3
37.5°	814.6	696.9	696.9	763.7	728.5
40°	780.7	661.7	665.3	711.5	643.5
42.5°	739.4	624.0	628.9	642.3	580.3
45°	694.4	587.6	591.3	542.7	531.8
47.5°	644.7	550.0	551.2	450.4	516.0
50°	585.2	511.1	506.3	386.1	514.8
52.5°	533.0	468.6	454.0	349.7	467.4
55°	482.0	423.7	392.1	321.7	433.4
57.5°	437.1	365.4	335.1	288.9	426.1
60°	395.8	308.4	285.3	253.7	390.9
62.5°	361.8	265.8	261.0	229.5	354.6
65°	325.4	236.8	235.5	208.8	301.1
67.5°	290.2	217.3	216.2	189.4	229.5
70°	252.5	196.7	194.2	168.7	170.0
72.5°	213.7	173.6	171.2	151.8	140.8
75°	174.8	146.9	145.7	132.3	114.1
77.5°	137.2	116.6	118.9	106.8	83.8
80°	98.3	85.0	87.4	76.5	63.1
82.5°	65.5	55.8	58.3	48.6	42.5
85°	36.4	31.6	32.8	25.5	19.5
87.5°	17.0	14.6	14.6	9.7	6.1
90°	16.4	10.4	9.7	6.7	3.7
92.5°	101.3	72.1	65.7	40.3	14.9
95°	249.1	140.3	128.7	82.3	35.8
97.5°	335.5	154.1	143.8	102.8	61.9
100°	367.0	165.6	156.3	119.2	82.1
102.5°	381.4	177.2	168.5	134.0	99.3
105°	392.2	194.4	187.1	157.7	128.4
107.5°	394.1	219.8	212.9	185.6	158.2
110°	391.2	234.0	227.8	203.0	178.3



TEST NUMBER: P934267

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	391.3	251.1	245.2	221.7	198.1
115°	394.9	276.9	271.5	249.7	228.0
117.5°	402.3	301.9	296.9	277.2	257.4
120°	408.2	316.4	311.8	293.2	274.6
122.5°	416.7	333.6	328.8	310.1	291.4
125°	428.3	355.5	351.3	334.2	317.2
127.5°	439.9	376.8	372.5	355.3	338.1
130°	448.3	391.0	386.4	367.8	349.2
132.5°	455.2	402.6	398.0	379.4	360.8
135°	462.6	416.0	411.8	394.9	378.0
137.5°	473.9	433.2	429.0	412.3	395.6
140°	480.7	444.8	440.9	425.5	410.0
142.5°	486.4	453.3	449.8	435.5	421.3
145°	493.9	466.4	463.4	450.9	438.5
147.5°	504.8	482.8	479.8	467.7	455.6
150°	510.6	491.4	488.7	477.7	466.8
152.5°	514.3	497.0	494.9	486.7	478.4
155°	522.5	509.3	507.8	501.6	495.5
157.5°	530.7	521.6	520.1	514.1	508.2
160°	534.5	527.3	526.1	521.5	516.8
162.5°	538.5	533.2	532.3	528.9	525.4
165°	544.1	541.7	540.9	537.8	534.7
167.5°	548.6	546.6	546.3	544.7	543.3
170°	552.3	552.2	551.9	550.3	548.9
172.5°	552.6	552.6	552.5	552.2	551.9
175°	554.9	555.9	555.9	555.9	555.9
177.5°	555.0	555.9	555.9	555.9	555.9
180°	555.9	555.9	555.9	555.9	555.9



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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	10.82	11.66	11.79	12.65	13.95	13.66	14.50	14.63	15.49	16.79
	3H	11.30	12.05	12.28	13.05	14.37	15.00	15.76	15.99	16.76	18.08
	4H	11.49	12.20	12.48	13.20	14.53	15.45	16.16	16.45	17.16	18.49
	6H	11.60	12.26	12.61	13.27	14.61	15.73	16.39	16.74	17.40	18.74
	8H	11.60	12.23	12.62	13.25	14.59	15.81	16.44	16.82	17.46	18.80
	12H	11.57	12.17	12.59	13.19	14.55	15.85	16.45	16.87	17.46	18.82
4H	2H	11.85	12.57	12.86	13.57	14.90	14.06	14.78	15.07	15.78	17.11
	3H	12.88	13.47	13.89	14.50	15.85	15.57	16.17	16.58	17.20	18.54
	4H	13.15	13.70	14.17	14.72	16.09	16.10	16.64	17.12	17.67	19.03
	6H	13.28	13.75	14.31	14.79	16.15	16.47	16.93	17.50	17.98	19.34
	8H	13.28	13.72	14.32	14.76	16.14	16.57	17.01	17.61	18.05	19.43
	12H	13.25	13.64	14.30	14.70	16.08	16.63	17.03	17.68	18.08	19.46
8H	4H	13.61	14.04	14.64	15.08	16.46	16.22	16.66	17.26	17.70	19.08
	6H	13.87	14.23	14.92	15.31	16.68	16.66	17.02	17.72	18.10	19.48
	8H	13.91	14.23	14.97	15.29	16.69	16.81	17.13	17.88	18.20	19.59
	12H	13.89	14.17	14.96	15.23	16.67	16.91	17.19	17.98	18.25	19.69
12H	4H	13.61	14.01	14.66	15.06	16.44	16.19	16.58	17.24	17.63	19.02
	6H	13.93	14.25	14.99	15.31	16.71	16.66	16.98	17.72	18.04	19.43
	8H	13.99	14.27	15.06	15.33	16.77	16.82	17.10	17.89	18.16	19.59