

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: P934667

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934667
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-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: -

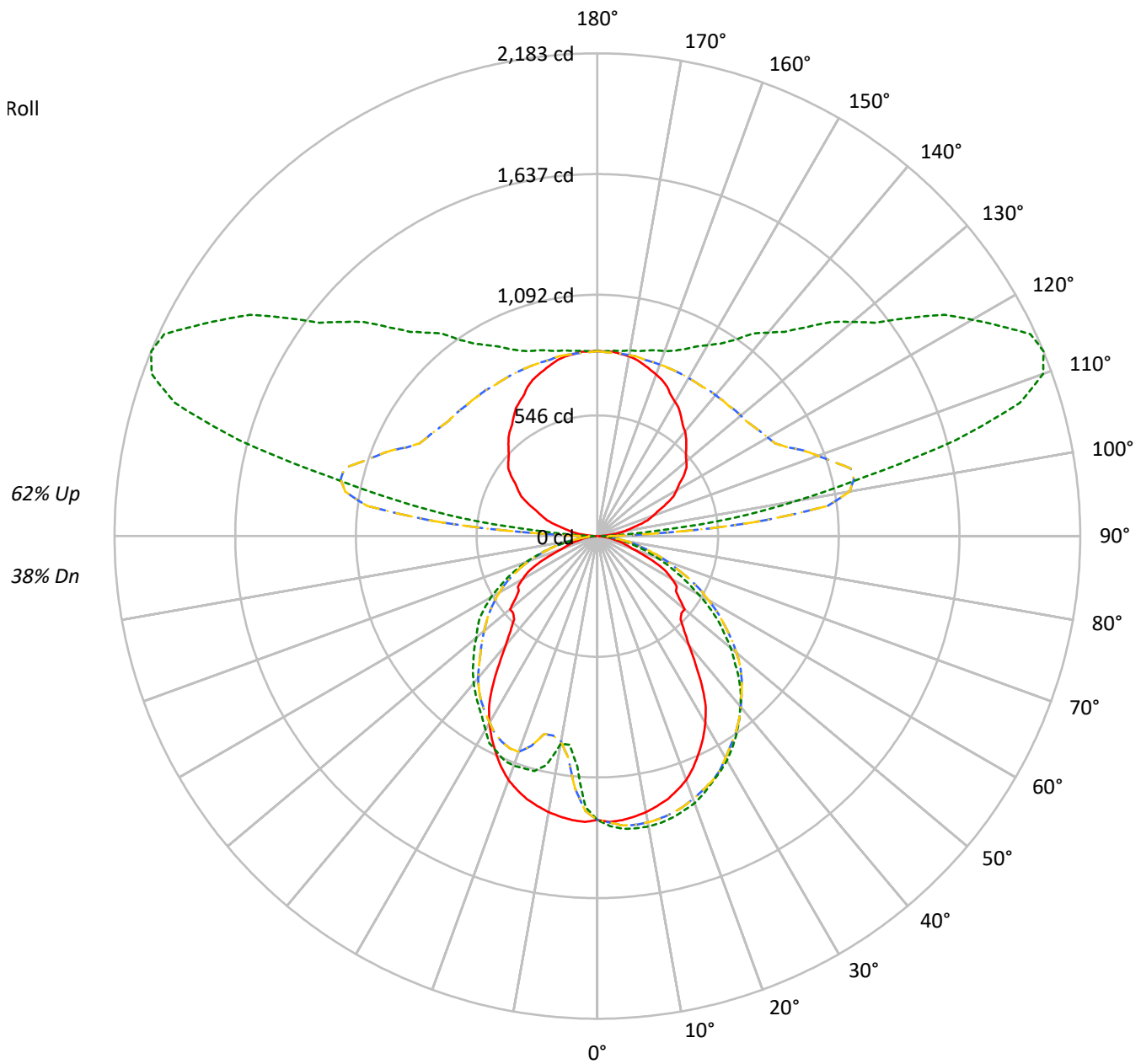
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8751.1 lumens
Efficiency: N/A
Efficacy: 127.2 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: Semi-Indirect

Input Watts (W): 68.8
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

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	1.3
10°-20°	328.9	3.8
20°-30°	508.4	5.8
30°-40°	606.9	6.9
40°-50°	610.5	7.0
50°-60°	531.2	6.1
60°-70°	376.6	4.3
70°-80°	199.3	2.3
80°-90°	52.8	0.6
90°-100°	407.6	4.7
100°-110°	1071.6	12.2
110°-120°	1111.1	12.7
120°-130°	891.2	10.2
130°-140°	699.3	8.0
140°-150°	536.7	6.1
150°-160°	386.5	4.4
160°-170°	236.5	2.7
170°-180°	79.9	0.9
0°-30°	953.2	10.9
0°-40°	1560.1	17.8
0°-60°	2701.8	30.9
0°-90°	3330.6	38.1
90°-120°	2590.3	29.6
90°-150°	4717.6	53.9
90°-180°	5421.0	61.9
0°-180°	8751.1	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°	6	21	6	21	6	5
95°	54	246	54	246	54	60
105°	193	1678	193	1678	193	205
115°	343	2160	343	2160	343	339
125°	477	1721	477	1721	477	423
135°	568	1335	568	1335	568	440
145°	659	1083	659	1083	659	413
155°	745	933	745	933	745	342
165°	804	869	804	869	804	227
175°	836	842	836	842	836	79
180°	836	836	836	836	836	



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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°	5.6	10.1	14.7	15.7	24.7	36.7	42.6	37.9	28.4	21.4	21.4
92.5°	22.4	60.6	98.8	108.3	152.3	210.9	240.2	210.5	151.2	106.6	102.4
95°	53.9	123.7	193.5	211.0	374.6	592.9	702.0	626.5	475.3	362.0	349.1
97.5°	93.1	154.8	216.4	231.8	504.7	868.6	1050.5	1002.7	907.2	835.6	811.2
100°	123.5	179.3	235.3	249.2	552.1	955.9	1157.7	1161.2	1168.2	1173.5	1144.3
102.5°	149.3	201.4	253.5	266.6	573.7	983.3	1188.0	1248.9	1370.6	1461.9	1436.9
105°	193.1	237.2	281.3	292.4	589.8	986.4	1184.7	1321.1	1593.9	1798.6	1785.2
107.5°	238.0	279.2	320.2	330.6	592.8	942.5	1117.3	1307.6	1688.2	1973.7	1977.0
110°	268.3	305.4	342.5	351.8	588.3	903.5	1061.2	1273.9	1699.4	2018.6	2032.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	298.0	333.4	368.8	377.6	588.4	869.6	1010.2	1227.9	1663.4	1990.0	2011.4
115°	342.9	375.6	408.2	416.4	593.9	830.6	949.0	1158.7	1578.2	1892.9	1922.7
117.5°	387.2	416.9	446.6	454.0	605.0	806.2	906.9	1096.1	1474.8	1758.7	1791.7
120°	413.0	440.9	468.9	475.8	613.9	798.0	890.0	1063.0	1409.0	1668.4	1700.4
122.5°	438.3	466.5	494.7	501.7	626.8	793.6	877.1	1032.9	1344.4	1578.1	1609.6
125°	477.0	502.7	528.3	534.8	644.2	790.1	863.1	995.4	1260.0	1458.5	1487.6
127.5°	508.4	534.4	560.3	566.8	661.7	788.1	851.3	964.9	1192.1	1362.5	1387.1
130°	525.3	553.1	581.1	588.1	674.3	789.4	846.9	948.0	1150.3	1302.0	1324.7
132.5°	542.6	570.6	598.6	605.6	684.7	790.1	842.9	933.4	1114.5	1250.3	1270.7
135°	568.4	593.9	619.4	625.7	695.9	789.4	836.2	912.0	1063.7	1177.3	1194.9
137.5°	594.9	620.0	645.2	651.5	712.7	794.3	835.0	899.1	1027.4	1123.5	1137.8
140°	616.8	639.9	663.1	668.9	723.0	795.1	831.1	886.5	997.2	1080.3	1093.7
142.5°	633.6	655.1	676.5	681.9	731.6	798.0	831.1	879.7	977.0	1050.0	1061.5
145°	659.4	678.1	696.8	701.5	742.9	798.0	825.5	865.3	944.9	1004.5	1013.2
147.5°	685.2	703.4	721.7	726.2	759.3	803.4	825.5	856.8	919.4	966.3	973.6
150°	702.0	718.5	735.0	739.1	767.8	806.3	825.5	851.9	904.8	944.4	950.3
152.5°	719.4	731.9	744.4	747.5	773.5	808.1	825.5	848.0	893.2	927.1	931.5
155°	745.2	754.5	763.7	766.0	785.9	812.3	825.5	843.4	879.4	906.3	909.2
157.5°	764.3	773.3	782.2	784.5	798.2	816.4	825.5	839.4	867.4	888.3	890.4
160°	777.3	784.2	791.2	792.9	803.8	818.3	825.5	837.5	861.4	879.4	880.5
162.5°	790.1	795.4	800.6	802.0	809.8	820.3	825.5	835.6	855.8	870.9	872.0
165°	804.1	808.9	813.6	814.8	818.4	823.2	825.5	832.7	847.2	858.1	859.3
167.5°	817.1	819.4	821.6	822.2	825.1	829.1	831.1	835.8	845.3	852.5	852.9
170°	825.5	827.8	830.0	830.6	830.8	831.0	831.1	835.8	845.3	852.5	852.5
172.5°	830.0	830.5	831.0	831.1	831.1	831.1	831.1	834.8	842.3	848.0	847.5
175°	836.2	836.2	836.2	836.2	834.5	832.2	831.1	833.5	838.3	841.8	841.8
177.5°	836.2	836.2	836.2	836.2	834.8	833.1	832.2	834.1	837.8	840.6	840.2
180°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2



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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°	21.4	21.4	21.4	21.4	21.4	28.4	37.9	42.6	36.7	24.7	15.7
92.5°	85.4	68.4	85.4	102.4	106.6	151.2	210.5	240.2	210.9	152.3	108.3
95°	297.8	246.4	297.8	349.1	362.0	475.3	626.5	702.0	592.9	374.6	211.0
97.5°	713.4	615.6	713.4	811.2	835.6	907.2	1002.7	1050.5	868.6	504.7	231.8
100°	1027.9	911.4	1027.9	1144.3	1173.5	1168.2	1161.2	1157.7	955.9	552.1	249.2
102.5°	1337.2	1237.4	1337.2	1436.9	1461.9	1370.6	1248.9	1188.0	983.3	573.7	266.6
105°	1731.5	1677.9	1731.5	1785.2	1798.6	1593.9	1321.1	1184.7	986.4	589.8	292.4
107.5°	1989.9	2002.8	1989.9	1977.0	1973.7	1688.2	1307.6	1117.3	942.5	592.8	330.6
110°	2088.5	2144.3	2088.5	2032.5	2018.6	1699.4	1273.9	1061.2	903.5	588.3	351.8



TEST NUMBER: P934667

CATALOG NUMBER: SQ4-FA-075U-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°	2097.2	2183.0	2097.2	2011.4	1990.0	1663.4	1227.9	1010.2	869.6	588.4	377.6
115°	2041.6	2160.5	2041.6	1922.7	1892.9	1578.2	1158.7	949.0	830.6	593.9	416.4
117.5°	1923.6	2055.6	1923.6	1791.7	1758.7	1474.8	1096.1	906.9	806.2	605.0	454.0
120°	1828.7	1956.9	1828.7	1700.4	1668.4	1409.0	1063.0	890.0	798.0	613.9	475.8
122.5°	1736.1	1862.5	1736.1	1609.6	1578.1	1344.4	1032.9	877.1	793.6	626.8	501.7
125°	1604.1	1720.6	1604.1	1487.6	1458.5	1260.0	995.4	863.1	790.1	644.2	534.8
127.5°	1485.4	1583.7	1485.4	1387.1	1362.5	1192.1	964.9	851.3	788.1	661.7	566.8
130°	1415.4	1506.2	1415.4	1324.7	1302.0	1150.3	948.0	846.9	789.4	674.3	588.1
132.5°	1351.9	1433.2	1351.9	1270.7	1250.3	1114.5	933.4	842.9	790.1	684.7	605.6
135°	1265.0	1335.0	1265.0	1194.9	1177.3	1063.7	912.0	836.2	789.4	695.9	625.7
137.5°	1195.2	1252.6	1195.2	1137.8	1123.5	1027.4	899.1	835.0	794.3	712.7	651.5
140°	1147.4	1201.0	1147.4	1093.7	1080.3	997.2	886.5	831.1	795.1	723.0	668.9
142.5°	1107.6	1153.8	1107.6	1061.5	1050.0	977.0	879.7	831.1	798.0	731.6	681.9
145°	1048.2	1083.1	1048.2	1013.2	1004.5	944.9	865.3	825.5	798.0	742.9	701.5
147.5°	1002.5	1031.4	1002.5	973.6	966.3	919.4	856.8	825.5	803.4	759.3	726.2
150°	973.8	997.2	973.8	950.3	944.4	904.8	851.9	825.5	806.3	767.8	739.1
152.5°	949.2	966.9	949.2	931.5	927.1	893.2	848.0	825.5	808.1	773.5	747.5
155°	921.0	932.7	921.0	909.2	906.3	879.4	843.4	825.5	812.3	785.9	766.0
157.5°	898.6	906.9	898.6	890.4	888.3	867.4	839.4	825.5	816.4	798.2	784.5
160°	885.3	890.0	885.3	880.5	879.4	861.4	837.5	825.5	818.3	803.8	792.9
162.5°	876.6	881.1	876.6	872.0	870.9	855.8	835.6	825.5	820.3	809.8	802.0
165°	864.0	868.7	864.0	859.3	858.1	847.2	832.7	825.5	823.2	818.4	814.8
167.5°	854.9	856.9	854.9	852.9	852.5	845.3	835.8	831.1	829.1	825.1	822.2
170°	852.5	852.5	852.5	852.5	852.5	845.3	835.8	831.1	831.0	830.8	830.6
172.5°	845.8	844.1	845.8	847.5	848.0	842.3	834.8	831.1	831.1	831.1	831.1
175°	841.8	841.8	841.8	841.8	841.8	838.3	833.5	831.1	832.2	834.5	836.2
177.5°	838.2	836.2	838.2	840.2	840.6	837.8	834.1	832.2	833.1	834.8	836.2
180°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2



TEST NUMBER: P934667

CATALOG NUMBER: SQ4-FA-075U-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°	14.7	10.1	5.6	10.1	14.7	15.7	24.7	36.7	42.6	37.9	28.4
92.5°	98.8	60.6	22.4	60.6	98.8	108.3	152.3	210.9	240.2	210.5	151.2
95°	193.5	123.7	53.9	123.7	193.5	211.0	374.6	592.9	702.0	626.5	475.3
97.5°	216.4	154.8	93.1	154.8	216.4	231.8	504.7	868.6	1050.5	1002.7	907.2
100°	235.3	179.3	123.5	179.3	235.3	249.2	552.1	955.9	1157.7	1161.2	1168.2
102.5°	253.5	201.4	149.3	201.4	253.5	266.6	573.7	983.3	1188.0	1248.9	1370.6
105°	281.3	237.2	193.1	237.2	281.3	292.4	589.8	986.4	1184.7	1321.1	1593.9
107.5°	320.2	279.2	238.0	279.2	320.2	330.6	592.8	942.5	1117.3	1307.6	1688.2
110°	342.5	305.4	268.3	305.4	342.5	351.8	588.3	903.5	1061.2	1273.9	1699.4



TEST NUMBER: P934667

CATALOG NUMBER: SQ4-FA-075U-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°	368.8	333.4	298.0	333.4	368.8	377.6	588.4	869.6	1010.2	1227.9	1663.4
115°	408.2	375.6	342.9	375.6	408.2	416.4	593.9	830.6	949.0	1158.7	1578.2
117.5°	446.6	416.9	387.2	416.9	446.6	454.0	605.0	806.2	906.9	1096.1	1474.8
120°	468.9	440.9	413.0	440.9	468.9	475.8	613.9	798.0	890.0	1063.0	1409.0
122.5°	494.7	466.5	438.3	466.5	494.7	501.7	626.8	793.6	877.1	1032.9	1344.4
125°	528.3	502.7	477.0	502.7	528.3	534.8	644.2	790.1	863.1	995.4	1260.0
127.5°	560.3	534.4	508.4	534.4	560.3	566.8	661.7	788.1	851.3	964.9	1192.1
130°	581.1	553.1	525.3	553.1	581.1	588.1	674.3	789.4	846.9	948.0	1150.3
132.5°	598.6	570.6	542.6	570.6	598.6	605.6	684.7	790.1	842.9	933.4	1114.5
135°	619.4	593.9	568.4	593.9	619.4	625.7	695.9	789.4	836.2	912.0	1063.7
137.5°	645.2	620.0	594.9	620.0	645.2	651.5	712.7	794.3	835.0	899.1	1027.4
140°	663.1	639.9	616.8	639.9	663.1	668.9	723.0	795.1	831.1	886.5	997.2
142.5°	676.5	655.1	633.6	655.1	676.5	681.9	731.6	798.0	831.1	879.7	977.0
145°	696.8	678.1	659.4	678.1	696.8	701.5	742.9	798.0	825.5	865.3	944.9
147.5°	721.7	703.4	685.2	703.4	721.7	726.2	759.3	803.4	825.5	856.8	919.4
150°	735.0	718.5	702.0	718.5	735.0	739.1	767.8	806.3	825.5	851.9	904.8
152.5°	744.4	731.9	719.4	731.9	744.4	747.5	773.5	808.1	825.5	848.0	893.2
155°	763.7	754.5	745.2	754.5	763.7	766.0	785.9	812.3	825.5	843.4	879.4
157.5°	782.2	773.3	764.3	773.3	782.2	784.5	798.2	816.4	825.5	839.4	867.4
160°	791.2	784.2	777.3	784.2	791.2	792.9	803.8	818.3	825.5	837.5	861.4
162.5°	800.6	795.4	790.1	795.4	800.6	802.0	809.8	820.3	825.5	835.6	855.8
165°	813.6	808.9	804.1	808.9	813.6	814.8	818.4	823.2	825.5	832.7	847.2
167.5°	821.6	819.4	817.1	819.4	821.6	822.2	825.1	829.1	831.1	835.8	845.3
170°	830.0	827.8	825.5	827.8	830.0	830.6	830.8	831.0	831.1	835.8	845.3
172.5°	831.0	830.5	830.0	830.5	831.0	831.1	831.1	831.1	831.1	834.8	842.3
175°	836.2	836.2	836.2	836.2	836.2	836.2	834.5	832.2	831.1	833.5	838.3
177.5°	836.2	836.2	836.2	836.2	836.2	836.2	834.8	833.1	832.2	834.1	837.8
180°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2



TEST NUMBER: P934667

CATALOG NUMBER: SQ4-FA-075U-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°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	28.4	37.9	42.6	36.7
92.5°	106.6	102.4	85.4	68.4	85.4	102.4	106.6	151.2	210.5	240.2	210.9
95°	362.0	349.1	297.8	246.4	297.8	349.1	362.0	475.3	626.5	702.0	592.9
97.5°	835.6	811.2	713.4	615.6	713.4	811.2	835.6	907.2	1002.7	1050.5	868.6
100°	1173.5	1144.3	1027.9	911.4	1027.9	1144.3	1173.5	1168.2	1161.2	1157.7	955.9
102.5°	1461.9	1436.9	1337.2	1237.4	1337.2	1436.9	1461.9	1370.6	1248.9	1188.0	983.3
105°	1798.6	1785.2	1731.5	1677.9	1731.5	1785.2	1798.6	1593.9	1321.1	1184.7	986.4
107.5°	1973.7	1977.0	1989.9	2002.8	1989.9	1977.0	1973.7	1688.2	1307.6	1117.3	942.5
110°	2018.6	2032.5	2088.5	2144.3	2088.5	2032.5	2018.6	1699.4	1273.9	1061.2	903.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1990.0	2011.4	2097.2	2183.0	2097.2	2011.4	1990.0	1663.4	1227.9	1010.2	869.6
115°	1892.9	1922.7	2041.6	2160.5	2041.6	1922.7	1892.9	1578.2	1158.7	949.0	830.6
117.5°	1758.7	1791.7	1923.6	2055.6	1923.6	1791.7	1758.7	1474.8	1096.1	906.9	806.2
120°	1668.4	1700.4	1828.7	1956.9	1828.7	1700.4	1668.4	1409.0	1063.0	890.0	798.0
122.5°	1578.1	1609.6	1736.1	1862.5	1736.1	1609.6	1578.1	1344.4	1032.9	877.1	793.6
125°	1458.5	1487.6	1604.1	1720.6	1604.1	1487.6	1458.5	1260.0	995.4	863.1	790.1
127.5°	1362.5	1387.1	1485.4	1583.7	1485.4	1387.1	1362.5	1192.1	964.9	851.3	788.1
130°	1302.0	1324.7	1415.4	1506.2	1415.4	1324.7	1302.0	1150.3	948.0	846.9	789.4
132.5°	1250.3	1270.7	1351.9	1433.2	1351.9	1270.7	1250.3	1114.5	933.4	842.9	790.1
135°	1177.3	1194.9	1265.0	1335.0	1265.0	1194.9	1177.3	1063.7	912.0	836.2	789.4
137.5°	1123.5	1137.8	1195.2	1252.6	1195.2	1137.8	1123.5	1027.4	899.1	835.0	794.3
140°	1080.3	1093.7	1147.4	1201.0	1147.4	1093.7	1080.3	997.2	886.5	831.1	795.1
142.5°	1050.0	1061.5	1107.6	1153.8	1107.6	1061.5	1050.0	977.0	879.7	831.1	798.0
145°	1004.5	1013.2	1048.2	1083.1	1048.2	1013.2	1004.5	944.9	865.3	825.5	798.0
147.5°	966.3	973.6	1002.5	1031.4	1002.5	973.6	966.3	919.4	856.8	825.5	803.4
150°	944.4	950.3	973.8	997.2	973.8	950.3	944.4	904.8	851.9	825.5	806.3
152.5°	927.1	931.5	949.2	966.9	949.2	931.5	927.1	893.2	848.0	825.5	808.1
155°	906.3	909.2	921.0	932.7	921.0	909.2	906.3	879.4	843.4	825.5	812.3
157.5°	888.3	890.4	898.6	906.9	898.6	890.4	888.3	867.4	839.4	825.5	816.4
160°	879.4	880.5	885.3	890.0	885.3	880.5	879.4	861.4	837.5	825.5	818.3
162.5°	870.9	872.0	876.6	881.1	876.6	872.0	870.9	855.8	835.6	825.5	820.3
165°	858.1	859.3	864.0	868.7	864.0	859.3	858.1	847.2	832.7	825.5	823.2
167.5°	852.5	852.9	854.9	856.9	854.9	852.9	852.5	845.3	835.8	831.1	829.1
170°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	845.3	835.8	831.1	831.0
172.5°	848.0	847.5	845.8	844.1	845.8	847.5	848.0	842.3	834.8	831.1	831.1
175°	841.8	841.8	841.8	841.8	841.8	841.8	841.8	838.3	833.5	831.1	832.2
177.5°	840.6	840.2	838.2	836.2	838.2	840.2	840.6	837.8	834.1	832.2	833.1
180°	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2	836.2



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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°	24.7	15.7	14.7	10.1	5.6
92.5°	152.3	108.3	98.8	60.6	22.4
95°	374.6	211.0	193.5	123.7	53.9
97.5°	504.7	231.8	216.4	154.8	93.1
100°	552.1	249.2	235.3	179.3	123.5
102.5°	573.7	266.6	253.5	201.4	149.3
105°	589.8	292.4	281.3	237.2	193.1
107.5°	592.8	330.6	320.2	279.2	238.0
110°	588.3	351.8	342.5	305.4	268.3



TEST NUMBER: P934667

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	588.4	377.6	368.8	333.4	298.0
115°	593.9	416.4	408.2	375.6	342.9
117.5°	605.0	454.0	446.6	416.9	387.2
120°	613.9	475.8	468.9	440.9	413.0
122.5°	626.8	501.7	494.7	466.5	438.3
125°	644.2	534.8	528.3	502.7	477.0
127.5°	661.7	566.8	560.3	534.4	508.4
130°	674.3	588.1	581.1	553.1	525.3
132.5°	684.7	605.6	598.6	570.6	542.6
135°	695.9	625.7	619.4	593.9	568.4
137.5°	712.7	651.5	645.2	620.0	594.9
140°	723.0	668.9	663.1	639.9	616.8
142.5°	731.6	681.9	676.5	655.1	633.6
145°	742.9	701.5	696.8	678.1	659.4
147.5°	759.3	726.2	721.7	703.4	685.2
150°	767.8	739.1	735.0	718.5	702.0
152.5°	773.5	747.5	744.4	731.9	719.4
155°	785.9	766.0	763.7	754.5	745.2
157.5°	798.2	784.5	782.2	773.3	764.3
160°	803.8	792.9	791.2	784.2	777.3
162.5°	809.8	802.0	800.6	795.4	790.1
165°	818.4	814.8	813.6	808.9	804.1
167.5°	825.1	822.2	821.6	819.4	817.1
170°	830.8	830.6	830.0	827.8	825.5
172.5°	831.1	831.1	831.0	830.5	830.0
175°	834.5	836.2	836.2	836.2	836.2
177.5°	834.8	836.2	836.2	836.2	836.2
180°	836.2	836.2	836.2	836.2	836.2



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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	9.79	10.55	10.84	11.61	13.04	12.63	13.39	13.68	14.45	15.88
	3H	10.26	10.94	11.32	12.01	13.46	13.97	14.65	15.03	15.72	17.17
	4H	10.45	11.09	11.52	12.16	13.62	14.41	15.06	15.48	16.12	17.58
	6H	10.56	11.16	11.64	12.23	13.70	14.69	15.29	15.77	16.36	17.83
	8H	10.56	11.12	11.65	12.21	13.68	14.76	15.33	15.85	16.42	17.88
	12H	10.53	11.06	11.62	12.15	13.63	14.80	15.34	15.89	16.42	17.91
4H	2H	10.81	11.46	11.89	12.53	13.99	13.02	13.67	14.10	14.74	16.20
	3H	11.83	12.37	12.92	13.47	14.94	14.52	15.06	15.61	16.16	17.63
	4H	12.10	12.60	13.20	13.68	15.17	15.05	15.54	16.14	16.63	18.12
	6H	12.22	12.65	13.32	13.75	15.24	15.41	15.83	16.51	16.94	18.43
	8H	12.22	12.62	13.33	13.72	15.22	15.52	15.91	16.62	17.01	18.51
	12H	12.19	12.55	13.31	13.66	15.17	15.57	15.93	16.69	17.04	18.55
8H	4H	12.55	12.95	13.65	14.05	15.55	15.16	15.56	16.27	16.66	18.16
	6H	12.81	13.13	13.93	14.28	15.77	15.60	15.93	16.72	17.07	18.57
	8H	12.85	13.13	13.98	14.26	15.78	15.75	16.04	16.88	17.16	18.68
	12H	12.83	13.08	13.96	14.20	15.75	15.85	16.10	16.98	17.22	18.77
12H	4H	12.55	12.91	13.67	14.02	15.53	15.12	15.48	16.24	16.60	18.10
	6H	12.87	13.15	14.00	14.28	15.79	15.60	15.88	16.73	17.01	18.52
	8H	12.93	13.18	14.06	14.30	15.86	15.75	16.01	16.89	17.13	18.68