

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: P934244

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934244
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-92765-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

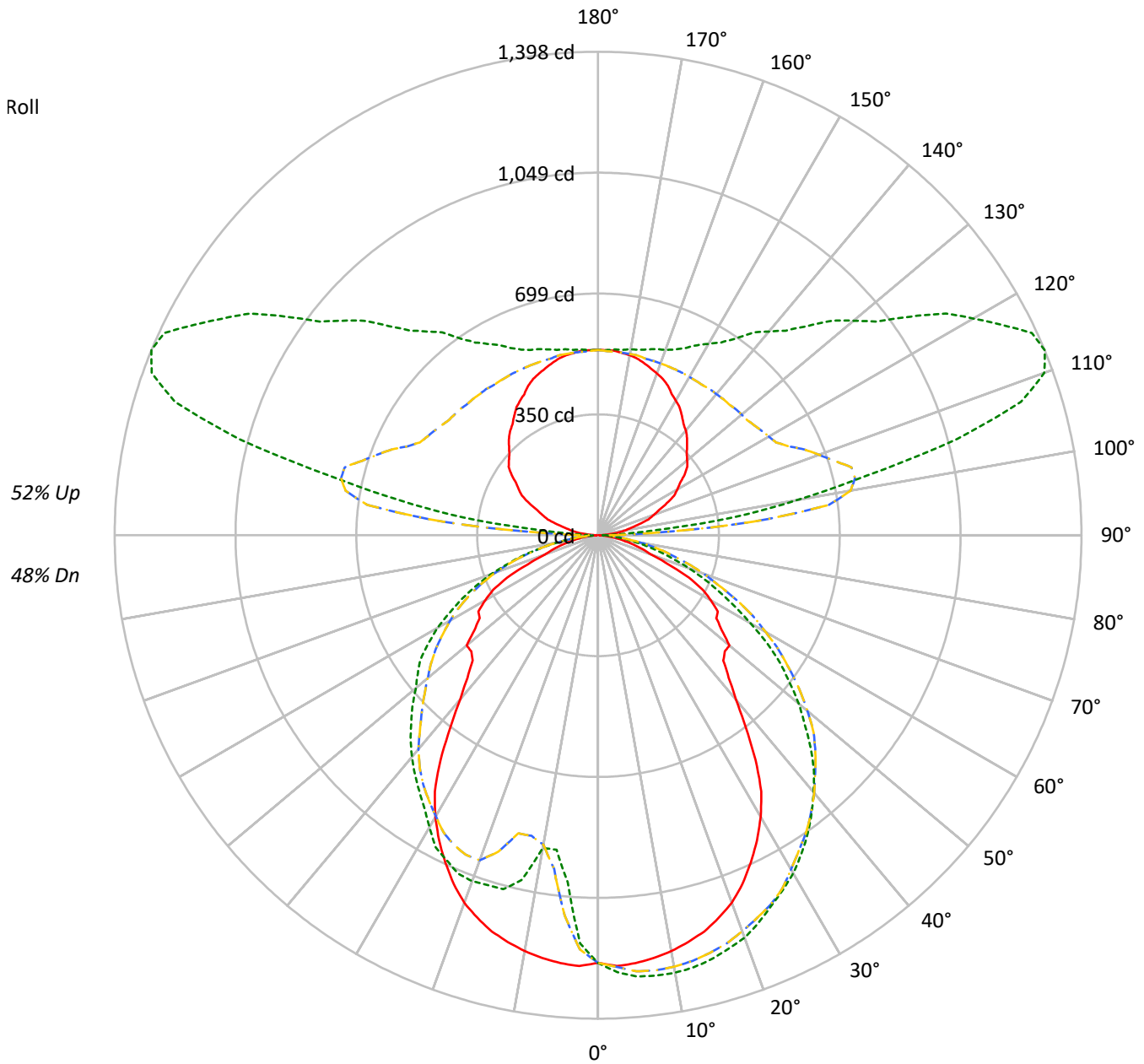
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6679.8 lumens
Efficiency: N/A
Efficacy: 117.6 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5779	5790	5779	4553
10°	5740	5704	5740	4078
15°	5678	5580	5678	4660
20°	5559	5433	5559	4669
25°	5316	5220	5316	4570
30°	5002	5043	5002	4353
35°	4459	4819	4459	4114
40°	3716	4555	3716	3934
45°	3320	4246	3320	3727
50°	3527	3878	3527	3519
55°	3318	3481	3318	3398
60°	3421	2956	3421	3112
65°	3101	2444	3101	2731
70°	2148	1948	2148	2290
75°	1884	1440	1884	1724
80°	1517	952	1517	1036
85°	871	504	871	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5088 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	1.7
10°-20°	316.9	4.7
20°-30°	489.8	7.3
30°-40°	584.7	8.8
40°-50°	588.2	8.8
50°-60°	511.8	7.7
60°-70°	362.9	5.4
70°-80°	192.0	2.9
80°-90°	49.9	0.7
90°-100°	261.1	3.9
100°-110°	686.4	10.3
110°-120°	711.7	10.7
120°-130°	570.9	8.5
130°-140°	447.9	6.7
140°-150°	343.8	5.1
150°-160°	247.6	3.7
160°-170°	151.5	2.3
170°-180°	51.2	0.8
0°-30°	918.3	13.7
0°-40°	1503.0	22.5
0°-60°	2603.0	39.0
0°-90°	3207.6	48.0
90°-120°	1659.2	24.8
90°-150°	3021.9	45.2
90°-180°	3472.0	52.0
0°-180°	6679.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1236	1236	1236	1236	1236	
5°	1242	1281	1242	1007	1242	118
15°	1186	1269	1186	1060	1186	334
25°	1044	1184	1044	1036	1044	480
35°	794	1056	794	902	794	491
45°	512	870	512	764	512	410
55°	418	642	418	627	418	384
65°	290	387	290	433	290	277
75°	110	184	110	220	110	116
85°	19	47	19	40	19	25
90°	4	14	4	14	4	4
95°	34	158	34	158	34	38
105°	124	1075	124	1075	124	131
115°	220	1384	220	1384	220	217
125°	306	1102	306	1102	306	271
135°	364	855	364	855	364	282
145°	422	694	422	694	422	265
155°	477	597	477	597	477	219
165°	515	556	515	556	515	145
175°	536	539	536	539	536	51
180°	536	536	536	536	536	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1246.8	1246.8	1253.9	1256.3	1256.3	1252.7	1249.2	1252.7	1263.2	1266.7	1265.6
5°	1242.2	1251.5	1264.4	1266.7	1269.1	1267.9	1265.6	1267.9	1279.6	1282.0	1283.1
7.5°	1232.8	1250.4	1266.7	1270.3	1273.8	1270.3	1269.1	1271.4	1283.1	1285.5	1285.5
10°	1221.1	1245.7	1264.4	1266.7	1270.3	1266.7	1266.7	1271.4	1283.1	1285.5	1286.6
12.5°	1204.7	1238.6	1256.3	1258.5	1263.2	1262.1	1260.9	1265.6	1277.3	1279.6	1279.6
15°	1186.1	1225.8	1242.2	1244.5	1252.7	1250.4	1250.4	1255.0	1267.9	1271.4	1270.3
17.5°	1160.3	1209.4	1228.2	1231.7	1237.5	1236.4	1237.5	1242.2	1253.9	1256.3	1257.4
20°	1131.0	1187.2	1209.4	1212.9	1218.8	1218.8	1218.8	1224.6	1236.4	1241.0	1241.0
22.5°	1091.3	1163.8	1187.2	1189.5	1196.6	1196.6	1198.9	1207.1	1217.6	1218.8	1218.8
25°	1044.5	1138.1	1158.0	1165.0	1172.0	1175.5	1179.0	1183.7	1187.2	1186.1	1187.2
27.5°	995.4	1105.3	1131.0	1135.7	1145.1	1148.6	1153.3	1154.5	1155.6	1159.1	1156.8
30°	940.4	1059.7	1098.3	1103.0	1118.2	1120.6	1115.9	1118.2	1124.1	1126.4	1128.8
32.5°	878.4	991.9	1064.4	1075.0	1089.0	1081.9	1080.8	1084.3	1093.6	1093.6	1096.0
35°	794.2	939.3	1032.8	1042.2	1052.7	1044.5	1049.2	1050.4	1056.2	1059.7	1058.6
37.5°	701.8	893.7	1000.0	1007.1	1015.3	1004.8	1011.7	1015.3	1019.9	1017.6	1017.6
40°	619.9	822.2	961.5	966.1	973.2	965.0	972.0	974.3	976.7	974.3	973.2
42.5°	559.1	743.9	920.5	926.4	921.7	927.6	929.8	934.6	931.1	926.4	926.4
45°	512.3	722.8	876.0	883.1	876.0	885.5	889.0	889.0	878.4	876.0	874.9
47.5°	497.1	680.7	831.7	831.7	828.1	839.9	845.7	837.5	826.9	823.5	823.5
50°	495.9	634.0	770.8	766.2	782.5	796.5	790.7	782.5	774.3	761.5	761.5
52.5°	450.3	576.7	692.5	710.0	735.7	743.9	734.5	726.4	712.4	706.4	701.8
55°	417.5	517.0	621.1	656.2	683.1	693.6	676.1	667.9	646.8	643.3	640.9
57.5°	410.6	430.4	555.6	600.0	632.7	631.6	621.1	605.9	588.4	584.9	583.7
60°	376.6	311.1	485.4	538.0	572.0	568.5	559.1	545.0	528.7	526.4	524.0
62.5°	341.6	225.8	405.8	465.5	513.5	512.3	504.1	483.1	471.3	465.5	460.9
65°	290.0	189.5	288.9	387.2	456.2	458.5	441.0	425.7	412.9	405.8	404.7
67.5°	221.1	154.4	195.3	322.8	401.2	398.9	376.6	369.7	353.3	349.8	342.7
70°	163.8	102.9	135.7	262.0	347.4	341.6	324.0	315.9	300.6	292.4	287.8
72.5°	135.7	83.0	99.4	203.5	292.4	285.4	270.2	260.8	248.0	240.9	236.2
75°	110.0	87.7	76.0	150.9	237.5	232.7	218.7	209.4	198.8	189.5	190.6
77.5°	80.8	81.9	60.8	111.1	188.4	181.3	173.1	161.4	156.7	147.4	147.4
80°	60.8	64.4	45.6	76.0	135.7	135.7	128.6	120.5	112.3	107.6	107.6
82.5°	40.9	40.9	33.9	48.0	92.4	88.9	84.2	81.9	77.2	74.8	74.8
85°	18.7	23.4	21.0	29.2	50.3	52.7	52.7	50.3	49.1	46.8	48.0
87.5°	5.8	10.6	12.9	16.4	25.7	26.9	28.1	28.1	28.1	29.2	29.2
90°	3.6	6.5	9.3	10.0	15.8	23.5	27.3	24.2	18.2	13.7	13.7
92.5°	14.4	38.8	63.3	69.4	97.6	135.1	153.8	134.8	96.8	68.3	65.6
95°	34.5	79.3	124.0	135.2	240.0	379.8	449.7	401.3	304.5	231.9	223.7
97.5°	59.6	99.1	138.6	148.4	323.3	556.4	672.9	642.3	581.1	535.3	519.6
100°	79.1	114.8	150.6	159.6	353.6	612.3	741.6	743.8	748.3	751.6	732.9
102.5°	95.7	129.1	162.4	170.7	367.5	629.9	761.0	800.0	878.0	936.4	920.4
105°	123.7	151.9	180.2	187.3	377.9	631.9	758.8	846.2	1021.1	1152.1	1143.5
107.5°	152.4	178.8	205.1	211.7	379.7	603.7	715.7	837.6	1081.4	1264.3	1266.4
110°	171.8	195.6	219.5	225.4	376.9	578.8	679.8	816.0	1088.6	1293.0	1301.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	190.9	213.6	236.2	241.9	377.0	557.1	647.0	786.5	1065.5	1274.7	1288.4
115°	219.7	240.6	261.5	266.8	380.5	532.1	607.9	742.3	1010.9	1212.5	1231.5
117.5°	248.0	267.0	286.0	290.8	387.5	516.4	580.9	702.2	944.7	1126.6	1147.7
120°	264.6	282.5	300.4	304.9	393.3	511.2	570.1	680.9	902.5	1068.7	1089.2
122.5°	280.7	298.8	316.8	321.3	401.5	508.4	561.9	661.6	861.2	1010.9	1031.1
125°	305.6	322.0	338.4	342.5	412.6	506.1	552.9	637.6	807.2	934.3	953.0
127.5°	325.7	342.3	358.8	363.0	423.8	504.8	545.3	618.1	763.6	872.8	888.5
130°	336.4	354.3	372.3	376.7	431.9	505.6	542.4	607.2	736.8	833.9	848.5
132.5°	347.6	365.5	383.4	387.9	438.5	506.1	540.0	598.0	713.9	800.9	813.9
135°	364.2	380.5	396.7	400.8	445.7	505.6	535.6	584.2	681.3	754.1	765.4
137.5°	381.1	397.2	413.3	417.4	456.5	508.7	534.9	576.0	658.1	719.7	728.8
140°	395.0	409.9	424.8	428.5	463.1	509.3	532.4	567.9	638.8	692.0	700.5
142.5°	405.8	419.5	433.3	436.7	468.6	511.1	532.4	563.5	625.9	672.6	680.0
145°	422.4	434.4	446.4	449.4	475.9	511.2	528.8	554.3	605.3	643.5	649.1
147.5°	438.9	450.6	462.3	465.1	486.3	514.7	528.8	548.9	588.9	619.0	623.6
150°	449.7	460.3	470.8	473.4	491.9	516.5	528.8	545.7	579.6	605.0	608.8
152.5°	460.9	468.9	476.8	478.8	495.5	517.7	528.8	543.3	572.1	593.9	596.7
155°	477.4	483.3	489.2	490.7	503.4	520.3	528.8	540.3	563.2	580.5	582.4
157.5°	489.6	495.3	501.1	502.6	511.3	523.0	528.8	537.7	555.6	569.0	570.3
160°	497.8	502.4	506.8	508.0	514.9	524.2	528.8	536.5	551.7	563.2	564.0
162.5°	506.1	509.5	512.8	513.7	518.8	525.5	528.8	535.3	548.2	557.9	558.6
165°	515.1	518.2	521.1	521.9	524.2	527.2	528.8	533.4	542.7	549.6	550.4
167.5°	523.4	524.8	526.3	526.6	528.5	531.1	532.4	535.4	541.5	546.1	546.4
170°	528.8	530.2	531.7	532.0	532.1	532.3	532.4	535.4	541.5	546.1	546.1
172.5°	531.7	532.0	532.3	532.4	532.4	532.4	532.4	534.8	539.6	543.2	542.9
175°	535.6	535.6	535.6	535.6	534.6	533.1	532.4	533.9	536.9	539.2	539.2
177.5°	535.6	535.6	535.6	535.6	534.7	533.6	533.1	534.3	536.6	538.5	538.1
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1267.9	1264.4	1267.9	1265.6	1266.7	1263.2	1252.7	1249.2	1252.7	1256.3	1256.3
5°	1283.1	1280.8	1283.1	1283.1	1282.0	1279.6	1267.9	1265.6	1267.9	1269.1	1266.7
7.5°	1287.8	1284.3	1287.8	1285.5	1285.5	1283.1	1271.4	1269.1	1270.3	1273.8	1270.3
10°	1287.8	1284.3	1287.8	1286.6	1285.5	1283.1	1271.4	1266.7	1266.7	1270.3	1266.7
12.5°	1282.0	1279.6	1282.0	1279.6	1279.6	1277.3	1265.6	1260.9	1262.1	1263.2	1258.5
15°	1272.6	1269.1	1272.6	1270.3	1271.4	1267.9	1255.0	1250.4	1250.4	1252.7	1244.5
17.5°	1258.5	1253.9	1258.5	1257.4	1256.3	1253.9	1242.2	1237.5	1236.4	1237.5	1231.7
20°	1242.2	1238.6	1242.2	1241.0	1241.0	1236.4	1224.6	1218.8	1218.8	1218.8	1212.9
22.5°	1216.5	1212.9	1216.5	1218.8	1218.8	1217.6	1207.1	1198.9	1196.6	1196.6	1189.5
25°	1187.2	1183.7	1187.2	1187.2	1186.1	1187.2	1183.7	1179.0	1175.5	1172.0	1165.0
27.5°	1159.1	1156.8	1159.1	1156.8	1159.1	1155.6	1154.5	1153.3	1148.6	1145.1	1135.7
30°	1131.0	1128.8	1131.0	1128.8	1126.4	1124.1	1118.2	1115.9	1120.6	1118.2	1103.0
32.5°	1096.0	1093.6	1096.0	1096.0	1093.6	1093.6	1084.3	1080.8	1081.9	1089.0	1075.0
35°	1059.7	1056.2	1059.7	1058.6	1059.7	1056.2	1050.4	1049.2	1044.5	1052.7	1042.2
37.5°	1017.6	1014.1	1017.6	1017.6	1017.6	1019.9	1015.3	1011.7	1004.8	1015.3	1007.1
40°	974.3	969.6	974.3	973.2	974.3	976.7	974.3	972.0	965.0	973.2	966.1
42.5°	925.2	924.0	925.2	926.4	926.4	931.1	934.6	929.8	927.6	921.7	926.4
45°	872.6	870.2	872.6	874.9	876.0	878.4	889.0	889.0	885.5	876.0	883.1
47.5°	816.4	810.6	816.4	823.5	823.5	826.9	837.5	845.7	839.9	828.1	831.7
50°	756.8	758.0	756.8	761.5	761.5	774.3	782.5	790.7	796.5	782.5	766.2
52.5°	698.3	697.1	698.3	701.8	706.4	712.4	726.4	734.5	743.9	735.7	710.0
55°	639.8	642.2	639.8	640.9	643.3	646.8	667.9	676.1	693.6	683.1	656.2
57.5°	581.3	577.8	581.3	583.7	584.9	588.4	605.9	621.1	631.6	632.7	600.0
60°	513.5	508.8	513.5	524.0	526.4	528.7	545.0	559.1	568.5	572.0	538.0
62.5°	453.8	445.6	453.8	460.9	465.5	471.3	483.1	504.1	512.3	513.5	465.5
65°	390.7	387.2	390.7	404.7	405.8	412.9	425.7	441.0	458.5	456.2	387.2
67.5°	333.4	333.4	333.4	342.7	349.8	353.3	369.7	376.6	398.9	401.2	322.8
70°	280.7	279.6	280.7	287.8	292.4	300.6	315.9	324.0	341.6	347.4	262.0
72.5°	230.4	229.3	230.4	236.2	240.9	248.0	260.8	270.2	285.4	292.4	203.5
75°	186.0	183.7	186.0	190.6	189.5	198.8	209.4	218.7	232.7	237.5	150.9
77.5°	142.7	142.7	142.7	147.4	147.4	156.7	161.4	173.1	181.3	188.4	111.1
80°	106.5	105.3	106.5	107.6	107.6	112.3	120.5	128.6	135.7	135.7	76.0
82.5°	74.8	72.6	74.8	74.8	74.8	77.2	81.9	84.2	88.9	92.4	48.0
85°	46.8	46.8	46.8	48.0	46.8	49.1	50.3	52.7	52.7	50.3	29.2
87.5°	30.4	29.2	30.4	29.2	29.2	28.1	28.1	28.1	26.9	25.7	16.4
90°	13.7	13.7	13.7	13.7	13.7	18.2	24.2	27.3	23.5	15.8	10.0
92.5°	54.7	43.9	54.7	65.6	68.3	96.8	134.8	153.8	135.1	97.6	69.4
95°	190.7	157.8	190.7	223.7	231.9	304.5	401.3	449.7	379.8	240.0	135.2
97.5°	456.9	394.3	456.9	519.6	535.3	581.1	642.3	672.9	556.4	323.3	148.4
100°	658.4	583.7	658.4	732.9	751.6	748.3	743.8	741.6	612.3	353.6	159.6
102.5°	856.5	792.6	856.5	920.4	936.4	878.0	800.0	761.0	629.9	367.5	170.7
105°	1109.1	1074.8	1109.1	1143.5	1152.1	1021.1	846.2	758.8	631.9	377.9	187.3
107.5°	1274.7	1282.9	1274.7	1266.4	1264.3	1081.4	837.6	715.7	603.7	379.7	211.7
110°	1337.7	1373.5	1337.7	1301.9	1293.0	1088.6	816.0	679.8	578.8	376.9	225.4



TEST NUMBER: P934244

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1343.4	1398.3	1343.4	1288.4	1274.7	1065.5	786.5	647.0	557.1	377.0	241.9
115°	1307.7	1383.9	1307.7	1231.5	1212.5	1010.9	742.3	607.9	532.1	380.5	266.8
117.5°	1232.3	1316.8	1232.3	1147.7	1126.6	944.7	702.2	580.9	516.4	387.5	290.8
120°	1171.3	1253.5	1171.3	1089.2	1068.7	902.5	680.9	570.1	511.2	393.3	304.9
122.5°	1112.1	1193.1	1112.1	1031.1	1010.9	861.2	661.6	561.9	508.4	401.5	321.3
125°	1027.5	1102.2	1027.5	953.0	934.3	807.2	637.6	552.9	506.1	412.6	342.5
127.5°	951.5	1014.4	951.5	888.5	872.8	763.6	618.1	545.3	504.8	423.8	363.0
130°	906.7	964.8	906.7	848.5	833.9	736.8	607.2	542.4	505.6	431.9	376.7
132.5°	866.0	918.1	866.0	813.9	800.9	713.9	598.0	540.0	506.1	438.5	387.9
135°	810.3	855.2	810.3	765.4	754.1	681.3	584.2	535.6	505.6	445.7	400.8
137.5°	765.6	802.4	765.6	728.8	719.7	658.1	576.0	534.9	508.7	456.5	417.4
140°	734.9	769.2	734.9	700.5	692.0	638.8	567.9	532.4	509.3	463.1	428.5
142.5°	709.5	739.0	709.5	680.0	672.6	625.9	563.5	532.4	511.1	468.6	436.7
145°	671.5	693.8	671.5	649.1	643.5	605.3	554.3	528.8	511.2	475.9	449.4
147.5°	642.2	660.7	642.2	623.6	619.0	588.9	548.9	528.8	514.7	486.3	465.1
150°	623.8	638.8	623.8	608.8	605.0	579.6	545.7	528.8	516.5	491.9	473.4
152.5°	608.1	619.4	608.1	596.7	593.9	572.1	543.3	528.8	517.7	495.5	478.8
155°	589.9	597.4	589.9	582.4	580.5	563.2	540.3	528.8	520.3	503.4	490.7
157.5°	575.6	580.9	575.6	570.3	569.0	555.6	537.7	528.8	523.0	511.3	502.6
160°	567.1	570.1	567.1	564.0	563.2	551.7	536.5	528.8	524.2	514.9	508.0
162.5°	561.5	564.4	561.5	558.6	557.9	548.2	535.3	528.8	525.5	518.8	513.7
165°	553.4	556.4	553.4	550.4	549.6	542.7	533.4	528.8	527.2	524.2	521.9
167.5°	547.6	548.9	547.6	546.4	546.1	541.5	535.4	532.4	531.1	528.5	526.6
170°	546.1	546.1	546.1	546.1	546.1	541.5	535.4	532.4	532.3	532.1	532.0
172.5°	541.8	540.7	541.8	542.9	543.2	539.6	534.8	532.4	532.4	532.4	532.4
175°	539.2	539.2	539.2	539.2	539.2	536.9	533.9	532.4	533.1	534.6	535.6
177.5°	536.9	535.6	536.9	538.1	538.5	536.6	534.3	533.1	533.6	534.7	535.6
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



TEST NUMBER: P934244

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1253.9	1246.8	1246.8	1235.1	1230.5	1227.0	1221.1	1203.6	1198.9	1194.3	1201.2
5°	1264.4	1251.5	1242.2	1221.1	1203.6	1196.6	1174.4	1132.2	1104.2	1083.1	1071.4
7.5°	1266.7	1250.4	1232.8	1200.1	1158.0	1139.2	1071.4	994.2	973.2	954.4	942.8
10°	1264.4	1245.7	1221.1	1172.0	1072.6	1039.8	972.0	921.7	908.8	905.3	908.8
12.5°	1256.3	1238.6	1204.7	1122.9	983.7	961.5	921.7	892.4	890.1	895.9	927.6
15°	1242.2	1225.8	1186.1	1057.3	934.6	918.2	890.1	879.6	892.4	933.4	1028.1
17.5°	1228.2	1209.4	1160.3	993.1	897.1	885.5	865.6	886.6	959.2	1014.1	1045.7
20°	1209.4	1187.2	1131.0	946.2	870.2	859.7	850.3	945.1	1000.0	1019.9	1037.5
22.5°	1187.2	1163.8	1091.3	913.5	842.1	834.0	839.9	977.8	1000.0	1014.1	1029.3
25°	1158.0	1138.1	1044.5	887.8	820.0	810.6	832.8	974.3	987.2	990.7	1021.2
27.5°	1131.0	1105.3	995.4	864.4	793.0	789.5	838.6	959.2	968.5	972.0	1004.8
30°	1098.3	1059.7	940.4	839.9	764.9	763.8	839.9	940.4	938.0	947.5	980.2
32.5°	1064.4	991.9	878.4	809.4	738.1	736.9	831.7	912.3	910.0	922.9	947.5
35°	1032.8	939.3	794.2	774.3	704.2	705.3	811.8	879.6	880.8	892.4	907.7
37.5°	1000.0	893.7	701.8	735.7	671.4	671.4	784.8	849.2	846.8	850.3	871.4
40°	961.5	822.2	619.9	685.4	640.9	637.5	752.1	816.4	808.2	807.1	836.3
42.5°	920.5	743.9	559.1	618.8	605.9	601.2	712.4	776.6	761.5	764.9	802.4
45°	876.0	722.8	512.3	522.9	569.6	566.1	669.0	731.0	720.5	729.9	768.4
47.5°	831.7	680.7	497.1	433.9	531.1	529.8	621.1	686.6	680.7	690.1	731.0
50°	770.8	634.0	495.9	371.9	487.7	492.4	563.8	643.3	643.3	651.5	694.7
52.5°	692.5	576.7	450.3	336.9	437.4	451.5	513.5	605.9	608.2	616.4	655.0
55°	621.1	517.0	417.5	309.9	377.8	408.2	464.4	567.3	572.0	580.2	615.2
57.5°	555.6	430.4	410.6	278.4	322.8	352.0	421.1	529.8	532.2	539.2	573.1
60°	485.4	311.1	376.6	244.4	274.9	297.1	381.3	485.4	493.6	498.3	527.5
62.5°	405.8	225.8	341.6	221.1	251.5	256.1	348.6	443.3	453.8	457.4	474.9
65°	288.9	189.5	290.0	201.2	226.9	228.1	313.5	400.0	409.4	415.3	428.1
67.5°	195.3	154.4	221.1	182.4	208.2	209.4	279.6	349.8	362.6	367.3	375.5
70°	135.7	102.9	163.8	162.5	187.1	189.5	243.3	304.1	315.9	319.3	324.0
72.5°	99.4	83.0	135.7	146.2	164.9	167.3	205.9	252.6	264.3	267.9	270.2
75°	76.0	87.7	110.0	127.5	140.4	141.5	168.4	205.9	214.1	216.4	217.6
77.5°	60.8	81.9	80.8	102.9	114.6	112.3	132.2	159.1	166.1	166.1	166.1
80°	45.6	64.4	60.8	73.7	84.2	81.9	94.7	113.5	115.8	118.2	116.9
82.5°	33.9	40.9	40.9	46.8	56.2	53.8	63.1	73.7	73.7	73.7	76.0
85°	21.0	23.4	18.7	24.6	31.6	30.4	35.1	39.8	40.9	40.9	38.6
87.5°	12.9	10.6	5.8	9.3	14.0	14.0	16.4	17.5	16.4	16.4	16.4
90°	9.3	6.5	3.6	6.5	9.3	10.0	15.8	23.5	27.3	24.2	18.2
92.5°	63.3	38.8	14.4	38.8	63.3	69.4	97.6	135.1	153.8	134.8	96.8
95°	124.0	79.3	34.5	79.3	124.0	135.2	240.0	379.8	449.7	401.3	304.5
97.5°	138.6	99.1	59.6	99.1	138.6	148.4	323.3	556.4	672.9	642.3	581.1
100°	150.6	114.8	79.1	114.8	150.6	159.6	353.6	612.3	741.6	743.8	748.3
102.5°	162.4	129.1	95.7	129.1	162.4	170.7	367.5	629.9	761.0	800.0	878.0
105°	180.2	151.9	123.7	151.9	180.2	187.3	377.9	631.9	758.8	846.2	1021.1
107.5°	205.1	178.8	152.4	178.8	205.1	211.7	379.7	603.7	715.7	837.6	1081.4
110°	219.5	195.6	171.8	195.6	219.5	225.4	376.9	578.8	679.8	816.0	1088.6



TEST NUMBER: P934244

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	236.2	213.6	190.9	213.6	236.2	241.9	377.0	557.1	647.0	786.5	1065.5
115°	261.5	240.6	219.7	240.6	261.5	266.8	380.5	532.1	607.9	742.3	1010.9
117.5°	286.0	267.0	248.0	267.0	286.0	290.8	387.5	516.4	580.9	702.2	944.7
120°	300.4	282.5	264.6	282.5	300.4	304.9	393.3	511.2	570.1	680.9	902.5
122.5°	316.8	298.8	280.7	298.8	316.8	321.3	401.5	508.4	561.9	661.6	861.2
125°	338.4	322.0	305.6	322.0	338.4	342.5	412.6	506.1	552.9	637.6	807.2
127.5°	358.8	342.3	325.7	342.3	358.8	363.0	423.8	504.8	545.3	618.1	763.6
130°	372.3	354.3	336.4	354.3	372.3	376.7	431.9	505.6	542.4	607.2	736.8
132.5°	383.4	365.5	347.6	365.5	383.4	387.9	438.5	506.1	540.0	598.0	713.9
135°	396.7	380.5	364.2	380.5	396.7	400.8	445.7	505.6	535.6	584.2	681.3
137.5°	413.3	397.2	381.1	397.2	413.3	417.4	456.5	508.7	534.9	576.0	658.1
140°	424.8	409.9	395.0	409.9	424.8	428.5	463.1	509.3	532.4	567.9	638.8
142.5°	433.3	419.5	405.8	419.5	433.3	436.7	468.6	511.1	532.4	563.5	625.9
145°	446.4	434.4	422.4	434.4	446.4	449.4	475.9	511.2	528.8	554.3	605.3
147.5°	462.3	450.6	438.9	450.6	462.3	465.1	486.3	514.7	528.8	548.9	588.9
150°	470.8	460.3	449.7	460.3	470.8	473.4	491.9	516.5	528.8	545.7	579.6
152.5°	476.8	468.9	460.9	468.9	476.8	478.8	495.5	517.7	528.8	543.3	572.1
155°	489.2	483.3	477.4	483.3	489.2	490.7	503.4	520.3	528.8	540.3	563.2
157.5°	501.1	495.3	489.6	495.3	501.1	502.6	511.3	523.0	528.8	537.7	555.6
160°	506.8	502.4	497.8	502.4	506.8	508.0	514.9	524.2	528.8	536.5	551.7
162.5°	512.8	509.5	506.1	509.5	512.8	513.7	518.8	525.5	528.8	535.3	548.2
165°	521.1	518.2	515.1	518.2	521.1	521.9	524.2	527.2	528.8	533.4	542.7
167.5°	526.3	524.8	523.4	524.8	526.3	526.6	528.5	531.1	532.4	535.4	541.5
170°	531.7	530.2	528.8	530.2	531.7	532.0	532.1	532.3	532.4	535.4	541.5
172.5°	532.3	532.0	531.7	532.0	532.3	532.4	532.4	532.4	532.4	534.8	539.6
175°	535.6	535.6	535.6	535.6	535.6	535.6	534.6	533.1	532.4	533.9	536.9
177.5°	535.6	535.6	535.6	535.6	535.6	535.6	534.7	533.6	533.1	534.3	536.6
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



TEST NUMBER: P934244

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1193.0	1189.5	1194.3	1181.3	1194.3	1189.5	1193.0	1201.2	1194.3	1198.9	1203.6
5°	1046.9	1041.0	1022.3	1007.1	1022.3	1041.0	1046.9	1071.4	1083.1	1104.2	1132.2
7.5°	935.7	931.1	926.4	917.0	926.4	931.1	935.7	942.8	954.4	973.2	994.2
10°	911.2	912.3	919.4	918.2	919.4	912.3	911.2	908.8	905.3	908.8	921.7
12.5°	974.3	984.9	1023.4	1021.2	1023.4	984.9	974.3	927.6	895.9	890.1	892.4
15°	1046.9	1050.4	1058.6	1059.7	1058.6	1050.4	1046.9	1028.1	933.4	892.4	879.6
17.5°	1053.9	1055.1	1060.9	1060.9	1060.9	1055.1	1053.9	1045.7	1014.1	959.2	886.6
20°	1048.0	1050.4	1062.1	1064.4	1062.1	1050.4	1048.0	1037.5	1019.9	1000.0	945.1
22.5°	1045.7	1050.4	1059.7	1058.6	1059.7	1050.4	1045.7	1029.3	1014.1	1000.0	977.8
25°	1034.0	1034.0	1035.2	1036.3	1035.2	1034.0	1034.0	1021.2	990.7	987.2	974.3
27.5°	1009.4	1011.7	1018.8	1017.6	1018.8	1011.7	1009.4	1004.8	972.0	968.5	959.2
30°	987.2	984.9	979.0	974.3	979.0	984.9	987.2	980.2	947.5	938.0	940.4
32.5°	949.7	943.9	938.0	934.6	938.0	943.9	949.7	947.5	922.9	910.0	912.3
35°	905.3	906.5	905.3	901.8	905.3	906.5	905.3	907.7	892.4	880.8	879.6
37.5°	873.8	876.0	874.9	870.2	874.9	876.0	873.8	871.4	850.3	846.8	849.2
40°	841.0	842.1	841.0	837.5	841.0	842.1	841.0	836.3	807.1	808.2	816.4
42.5°	809.4	808.2	804.7	802.4	804.7	808.2	809.4	802.4	764.9	761.5	776.6
45°	773.1	774.3	767.3	763.8	767.3	774.3	773.1	768.4	729.9	720.5	731.0
47.5°	736.9	736.9	731.0	727.5	731.0	736.9	736.9	731.0	690.1	680.7	686.6
50°	698.3	697.1	688.9	687.8	688.9	697.1	698.3	694.7	651.5	643.3	643.3
52.5°	653.9	653.9	655.0	657.3	655.0	653.9	653.9	655.0	616.4	608.2	605.9
55°	615.2	616.4	624.6	626.9	624.6	616.4	615.2	615.2	580.2	572.0	567.3
57.5°	575.5	575.5	581.3	581.3	581.3	575.5	575.5	573.1	539.2	532.2	529.8
60°	529.8	532.2	536.9	535.7	536.9	532.2	529.8	527.5	498.3	493.6	485.4
62.5°	481.9	484.2	485.4	483.1	485.4	484.2	481.9	474.9	457.4	453.8	443.3
65°	431.6	433.9	435.1	432.8	435.1	433.9	431.6	428.1	415.3	409.4	400.0
67.5°	380.1	379.0	377.8	382.5	377.8	379.0	380.1	375.5	367.3	362.6	349.8
70°	327.5	327.5	326.3	328.7	326.3	327.5	327.5	324.0	319.3	315.9	304.1
72.5°	271.4	270.2	274.9	271.4	274.9	270.2	271.4	270.2	267.9	264.3	252.6
75°	216.4	218.7	216.4	219.9	216.4	218.7	216.4	217.6	216.4	214.1	205.9
77.5°	164.9	167.3	164.9	164.9	164.9	167.3	164.9	166.1	166.1	166.1	159.1
80°	116.9	115.8	115.8	114.6	115.8	115.8	116.9	116.9	118.2	115.8	113.5
82.5°	74.8	73.7	73.7	76.0	73.7	73.7	74.8	76.0	73.7	73.7	73.7
85°	40.9	42.1	39.8	39.8	39.8	42.1	40.9	38.6	40.9	40.9	39.8
87.5°	15.2	14.0	14.0	14.0	14.0	14.0	15.2	16.4	16.4	16.4	17.5
90°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	18.2	24.2	27.3	23.5
92.5°	68.3	65.6	54.7	43.9	54.7	65.6	68.3	96.8	134.8	153.8	135.1
95°	231.9	223.7	190.7	157.8	190.7	223.7	231.9	304.5	401.3	449.7	379.8
97.5°	535.3	519.6	456.9	394.3	456.9	519.6	535.3	581.1	642.3	672.9	556.4
100°	751.6	732.9	658.4	583.7	658.4	732.9	751.6	748.3	743.8	741.6	612.3
102.5°	936.4	920.4	856.5	792.6	856.5	920.4	936.4	878.0	800.0	761.0	629.9
105°	1152.1	1143.5	1109.1	1074.8	1109.1	1143.5	1152.1	1021.1	846.2	758.8	631.9
107.5°	1264.3	1266.4	1274.7	1282.9	1274.7	1266.4	1264.3	1081.4	837.6	715.7	603.7
110°	1293.0	1301.9	1337.7	1373.5	1337.7	1301.9	1293.0	1088.6	816.0	679.8	578.8



TEST NUMBER: P934244

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1274.7	1288.4	1343.4	1398.3	1343.4	1288.4	1274.7	1065.5	786.5	647.0	557.1
115°	1212.5	1231.5	1307.7	1383.9	1307.7	1231.5	1212.5	1010.9	742.3	607.9	532.1
117.5°	1126.6	1147.7	1232.3	1316.8	1232.3	1147.7	1126.6	944.7	702.2	580.9	516.4
120°	1068.7	1089.2	1171.3	1253.5	1171.3	1089.2	1068.7	902.5	680.9	570.1	511.2
122.5°	1010.9	1031.1	1112.1	1193.1	1112.1	1031.1	1010.9	861.2	661.6	561.9	508.4
125°	934.3	953.0	1027.5	1102.2	1027.5	953.0	934.3	807.2	637.6	552.9	506.1
127.5°	872.8	888.5	951.5	1014.4	951.5	888.5	872.8	763.6	618.1	545.3	504.8
130°	833.9	848.5	906.7	964.8	906.7	848.5	833.9	736.8	607.2	542.4	505.6
132.5°	800.9	813.9	866.0	918.1	866.0	813.9	800.9	713.9	598.0	540.0	506.1
135°	754.1	765.4	810.3	855.2	810.3	765.4	754.1	681.3	584.2	535.6	505.6
137.5°	719.7	728.8	765.6	802.4	765.6	728.8	719.7	658.1	576.0	534.9	508.7
140°	692.0	700.5	734.9	769.2	734.9	700.5	692.0	638.8	567.9	532.4	509.3
142.5°	672.6	680.0	709.5	739.0	709.5	680.0	672.6	625.9	563.5	532.4	511.1
145°	643.5	649.1	671.5	693.8	671.5	649.1	643.5	605.3	554.3	528.8	511.2
147.5°	619.0	623.6	642.2	660.7	642.2	623.6	619.0	588.9	548.9	528.8	514.7
150°	605.0	608.8	623.8	638.8	623.8	608.8	605.0	579.6	545.7	528.8	516.5
152.5°	593.9	596.7	608.1	619.4	608.1	596.7	593.9	572.1	543.3	528.8	517.7
155°	580.5	582.4	589.9	597.4	589.9	582.4	580.5	563.2	540.3	528.8	520.3
157.5°	569.0	570.3	575.6	580.9	575.6	570.3	569.0	555.6	537.7	528.8	523.0
160°	563.2	564.0	567.1	570.1	567.1	564.0	563.2	551.7	536.5	528.8	524.2
162.5°	557.9	558.6	561.5	564.4	561.5	558.6	557.9	548.2	535.3	528.8	525.5
165°	549.6	550.4	553.4	556.4	553.4	550.4	549.6	542.7	533.4	528.8	527.2
167.5°	546.1	546.4	547.6	548.9	547.6	546.4	546.1	541.5	535.4	532.4	531.1
170°	546.1	546.1	546.1	546.1	546.1	546.1	546.1	541.5	535.4	532.4	532.3
172.5°	543.2	542.9	541.8	540.7	541.8	542.9	543.2	539.6	534.8	532.4	532.4
175°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	536.9	533.9	532.4	533.1
177.5°	538.5	538.1	536.9	535.6	536.9	538.1	538.5	536.6	534.3	533.1	533.6
180°	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6



TEST NUMBER: P934244

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1221.1	1227.0	1230.5	1235.1	1246.8
5°	1174.4	1196.6	1203.6	1221.1	1242.2
7.5°	1071.4	1139.2	1158.0	1200.1	1232.8
10°	972.0	1039.8	1072.6	1172.0	1221.1
12.5°	921.7	961.5	983.7	1122.9	1204.7
15°	890.1	918.2	934.6	1057.3	1186.1
17.5°	865.6	885.5	897.1	993.1	1160.3
20°	850.3	859.7	870.2	946.2	1131.0
22.5°	839.9	834.0	842.1	913.5	1091.3
25°	832.8	810.6	820.0	887.8	1044.5
27.5°	838.6	789.5	793.0	864.4	995.4
30°	839.9	763.8	764.9	839.9	940.4
32.5°	831.7	736.9	738.1	809.4	878.4
35°	811.8	705.3	704.2	774.3	794.2
37.5°	784.8	671.4	671.4	735.7	701.8
40°	752.1	637.5	640.9	685.4	619.9
42.5°	712.4	601.2	605.9	618.8	559.1
45°	669.0	566.1	569.6	522.9	512.3
47.5°	621.1	529.8	531.1	433.9	497.1
50°	563.8	492.4	487.7	371.9	495.9
52.5°	513.5	451.5	437.4	336.9	450.3
55°	464.4	408.2	377.8	309.9	417.5
57.5°	421.1	352.0	322.8	278.4	410.6
60°	381.3	297.1	274.9	244.4	376.6
62.5°	348.6	256.1	251.5	221.1	341.6
65°	313.5	228.1	226.9	201.2	290.0
67.5°	279.6	209.4	208.2	182.4	221.1
70°	243.3	189.5	187.1	162.5	163.8
72.5°	205.9	167.3	164.9	146.2	135.7
75°	168.4	141.5	140.4	127.5	110.0
77.5°	132.2	112.3	114.6	102.9	80.8
80°	94.7	81.9	84.2	73.7	60.8
82.5°	63.1	53.8	56.2	46.8	40.9
85°	35.1	30.4	31.6	24.6	18.7
87.5°	16.4	14.0	14.0	9.3	5.8
90°	15.8	10.0	9.3	6.5	3.6
92.5°	97.6	69.4	63.3	38.8	14.4
95°	240.0	135.2	124.0	79.3	34.5
97.5°	323.3	148.4	138.6	99.1	59.6
100°	353.6	159.6	150.6	114.8	79.1
102.5°	367.5	170.7	162.4	129.1	95.7
105°	377.9	187.3	180.2	151.9	123.7
107.5°	379.7	211.7	205.1	178.8	152.4
110°	376.9	225.4	219.5	195.6	171.8



TEST NUMBER: P934244

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	377.0	241.9	236.2	213.6	190.9
115°	380.5	266.8	261.5	240.6	219.7
117.5°	387.5	290.8	286.0	267.0	248.0
120°	393.3	304.9	300.4	282.5	264.6
122.5°	401.5	321.3	316.8	298.8	280.7
125°	412.6	342.5	338.4	322.0	305.6
127.5°	423.8	363.0	358.8	342.3	325.7
130°	431.9	376.7	372.3	354.3	336.4
132.5°	438.5	387.9	383.4	365.5	347.6
135°	445.7	400.8	396.7	380.5	364.2
137.5°	456.5	417.4	413.3	397.2	381.1
140°	463.1	428.5	424.8	409.9	395.0
142.5°	468.6	436.7	433.3	419.5	405.8
145°	475.9	449.4	446.4	434.4	422.4
147.5°	486.3	465.1	462.3	450.6	438.9
150°	491.9	473.4	470.8	460.3	449.7
152.5°	495.5	478.8	476.8	468.9	460.9
155°	503.4	490.7	489.2	483.3	477.4
157.5°	511.3	502.6	501.1	495.3	489.6
160°	514.9	508.0	506.8	502.4	497.8
162.5°	518.8	513.7	512.8	509.5	506.1
165°	524.2	521.9	521.1	518.2	515.1
167.5°	528.5	526.6	526.3	524.8	523.4
170°	532.1	532.0	531.7	530.2	528.8
172.5°	532.4	532.4	532.3	532.0	531.7
175°	534.6	535.6	535.6	535.6	535.6
177.5°	534.7	535.6	535.6	535.6	535.6
180°	535.6	535.6	535.6	535.6	535.6



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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	10.69	11.53	11.66	12.52	13.82	13.53	14.37	14.50	15.36	16.66
	3H	11.17	11.92	12.15	12.92	14.24	14.87	15.63	15.86	16.63	17.95
	4H	11.36	12.07	12.35	13.07	14.40	15.32	16.04	16.32	17.04	18.36
	6H	11.47	12.13	12.48	13.14	14.48	15.61	16.26	16.61	17.27	18.61
	8H	11.47	12.10	12.49	13.12	14.46	15.68	16.31	16.70	17.33	18.67
	12H	11.44	12.04	12.47	13.06	14.42	15.72	16.32	16.74	17.33	18.70
4H	2H	11.72	12.44	12.73	13.44	14.77	13.93	14.65	14.94	15.65	16.98
	3H	12.75	13.34	13.76	14.37	15.72	15.44	16.04	16.46	17.07	18.41
	4H	13.02	13.57	14.04	14.59	15.96	15.97	16.52	16.99	17.54	18.90
	6H	13.15	13.62	14.18	14.66	16.02	16.34	16.81	17.37	17.85	19.21
	8H	13.15	13.59	14.19	14.63	16.01	16.44	16.88	17.48	17.92	19.30
	12H	13.12	13.51	14.17	14.57	15.95	16.50	16.90	17.55	17.95	19.33
8H	4H	13.48	13.91	14.51	14.95	16.33	16.09	16.53	17.13	17.57	18.95
	6H	13.74	14.10	14.79	15.18	16.55	16.53	16.89	17.59	17.97	19.35
	8H	13.78	14.10	14.84	15.16	16.56	16.68	17.00	17.75	18.07	19.46
	12H	13.76	14.04	14.83	15.10	16.54	16.78	17.06	17.85	18.12	19.56
12H	4H	13.48	13.88	14.53	14.93	16.31	16.06	16.45	17.11	17.51	18.89
	6H	13.80	14.12	14.86	15.18	16.58	16.53	16.85	17.59	17.91	19.31
	8H	13.86	14.14	14.93	15.20	16.64	16.69	16.97	17.76	18.03	19.47