

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: P935236

Luminaire Tested: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935236
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

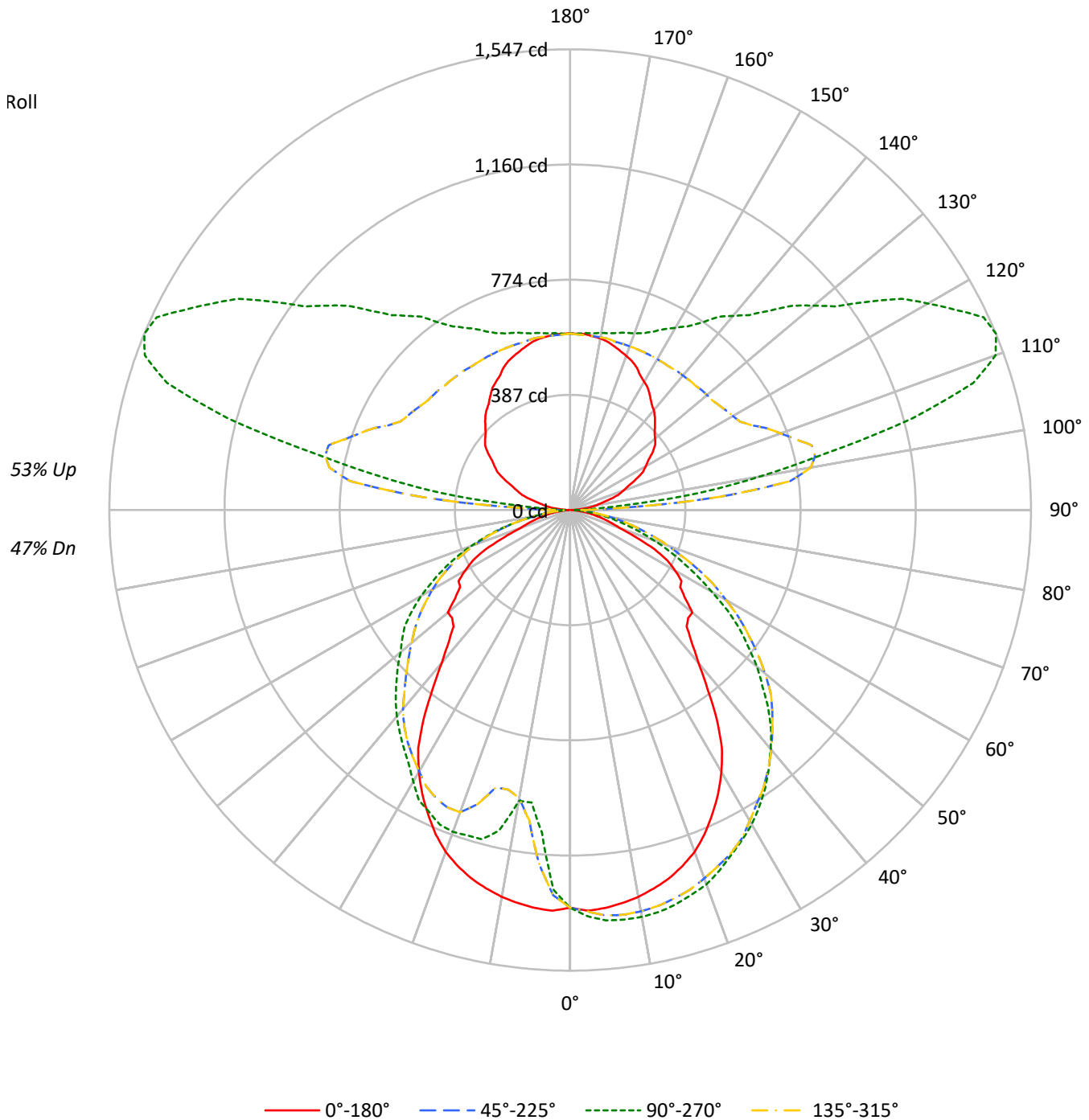
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7306.3 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 58
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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CATALOG NUMBER: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P935236

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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
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12391	12391	12391	12391
5°	12470	12509	12470	9836
10°	12374	12321	12374	8809
15°	12224	12054	12224	10066
20°	11954	11738	11954	10086
25°	11418	11277	11418	9873
30°	10729	10894	10729	9404
35°	9550	10409	9550	8888
40°	7944	9839	7944	8499
45°	7084	9172	7084	8050
50°	7510	8376	7510	7601
55°	7045	7518	7045	7341
60°	7236	6385	7236	6723
65°	6529	5277	6529	5901
70°	4491	4207	4491	4946
75°	3896	3109	3896	3723
80°	3075	2056	3075	2238
85°	1673	1088	1673	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.6
10°-20°	342.2	4.7
20°-30°	529.1	7.2
30°-40°	631.6	8.6
40°-50°	635.3	8.7
50°-60°	552.8	7.6
60°-70°	391.9	5.4
70°-80°	207.3	2.8
80°-90°	53.9	0.7
90°-100°	288.9	4.0
100°-110°	759.5	10.4
110°-120°	787.5	10.8
120°-130°	631.6	8.6
130°-140°	495.6	6.8
140°-150°	380.4	5.2
150°-160°	274.0	3.7
160°-170°	167.6	2.3
170°-180°	56.6	0.8
0°-30°	991.8	13.6
0°-40°	1623.4	22.2
0°-60°	2811.5	38.5
0°-90°	3464.6	47.4
90°-120°	1835.8	25.1
90°-150°	3343.4	45.8
90°-180°	3842.0	52.6
0°-180°	7306.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1335	1335	1335	1335	1335	
5°	1342	1383	1342	1088	1342	127
15°	1281	1371	1281	1145	1281	360
25°	1128	1278	1128	1119	1128	518
35°	858	1141	858	974	858	531
45°	553	940	553	825	553	443
55°	451	694	451	677	451	414
65°	313	418	313	468	313	299
75°	119	198	119	238	119	125
85°	20	50	20	43	20	27
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1189	137	1189	137	145
115°	243	1531	243	1531	243	240
125°	338	1219	338	1219	338	300
135°	403	946	403	946	403	312
145°	467	768	467	768	467	293
155°	528	661	528	661	528	243
165°	570	616	570	616	570	161
175°	593	597	593	597	593	56
180°	593	593	593	593	593	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1346.7	1346.7	1354.4	1356.8	1356.8	1353.0	1349.3	1353.0	1364.4	1368.2	1367.0
5°	1341.7	1351.8	1365.7	1368.2	1370.7	1369.5	1367.0	1369.5	1382.1	1384.7	1385.9
7.5°	1331.6	1350.5	1368.2	1372.0	1375.8	1372.0	1370.7	1373.3	1385.9	1388.4	1388.4
10°	1319.0	1345.5	1365.7	1368.2	1372.0	1368.2	1368.2	1373.3	1385.9	1388.4	1389.7
12.5°	1301.3	1337.9	1356.8	1359.4	1364.4	1363.1	1361.9	1367.0	1379.6	1382.1	1382.1
15°	1281.0	1324.0	1341.7	1344.2	1353.0	1350.5	1350.5	1355.6	1369.5	1373.3	1372.0
17.5°	1253.3	1306.4	1326.5	1330.4	1336.7	1335.3	1336.7	1341.7	1354.4	1356.8	1358.1
20°	1221.6	1282.4	1306.4	1310.1	1316.4	1316.4	1316.4	1322.7	1335.3	1340.4	1340.4
22.5°	1178.7	1257.0	1282.4	1284.8	1292.4	1292.4	1295.0	1303.8	1315.1	1316.4	1316.4
25°	1128.2	1229.3	1250.7	1258.3	1265.9	1269.6	1273.5	1278.5	1282.4	1281.0	1282.4
27.5°	1075.1	1193.9	1221.6	1226.7	1236.8	1240.7	1245.6	1247.0	1248.2	1251.9	1249.5
30°	1015.8	1144.6	1186.3	1191.3	1207.8	1210.3	1205.3	1207.8	1214.1	1216.7	1219.1
32.5°	948.7	1071.3	1149.6	1161.0	1176.2	1168.6	1167.3	1171.1	1181.3	1181.3	1183.8
35°	857.8	1014.5	1115.6	1125.6	1137.0	1128.2	1133.2	1134.5	1140.8	1144.6	1143.3
37.5°	758.0	965.2	1080.2	1087.8	1096.6	1085.2	1092.8	1096.6	1101.6	1099.1	1099.1
40°	669.6	888.1	1038.5	1043.5	1051.1	1042.3	1049.8	1052.4	1054.9	1052.4	1051.1
42.5°	603.9	803.5	994.2	1000.6	995.5	1001.8	1004.4	1009.5	1005.6	1000.6	1000.6
45°	553.3	780.7	946.2	953.8	946.2	956.4	960.1	960.1	948.7	946.2	945.0
47.5°	536.9	735.3	898.2	898.2	894.4	907.0	913.5	904.6	893.2	889.5	889.5
50°	535.7	684.7	832.6	827.5	845.2	860.4	854.1	845.2	836.4	822.4	822.4
52.5°	486.4	622.9	747.9	766.9	794.7	803.5	793.4	784.6	769.4	763.0	758.0
55°	451.0	558.4	670.9	708.7	737.8	749.2	730.2	721.4	698.6	694.9	692.3
57.5°	443.5	464.9	600.1	648.1	683.5	682.2	670.9	654.4	635.5	631.7	630.4
60°	406.8	336.0	524.3	581.2	617.8	614.0	603.9	588.7	571.0	568.6	566.0
62.5°	368.9	243.8	438.4	502.9	554.6	553.3	544.6	521.8	509.2	502.9	497.8
65°	313.3	204.6	312.0	418.1	492.7	495.2	476.3	459.8	446.0	438.4	437.1
67.5°	238.8	166.8	210.9	348.7	433.3	430.8	406.8	399.2	381.5	377.7	370.1
70°	176.9	111.2	146.6	283.0	375.2	368.9	350.0	341.1	324.7	315.8	310.8
72.5°	146.6	89.7	107.4	219.8	315.8	308.3	291.8	281.7	267.8	260.3	255.2
75°	118.8	94.8	82.1	162.9	256.5	251.4	236.3	226.1	214.8	204.6	206.0
77.5°	87.2	88.4	65.7	120.0	203.4	195.8	186.9	174.3	169.2	159.2	159.2
80°	65.7	69.5	49.2	82.1	146.6	146.6	138.9	130.1	121.2	116.3	116.3
82.5°	44.2	44.2	36.6	51.8	99.8	96.0	90.9	88.4	83.4	80.9	80.9
85°	20.2	25.2	22.8	31.6	54.3	56.9	56.9	54.3	53.1	50.5	51.8
87.5°	6.3	11.4	13.9	17.7	27.8	29.1	30.3	30.3	30.3	31.6	31.6
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2	15.1	15.1
92.5°	15.9	42.9	70.0	76.8	108.0	149.5	170.2	149.2	107.1	75.5	72.6
95°	38.2	87.7	137.2	149.5	265.5	420.2	497.5	444.0	336.9	256.5	247.5
97.5°	66.0	109.7	153.4	164.3	357.7	615.6	744.5	710.6	642.9	592.2	574.9
100°	87.5	127.1	166.7	176.6	391.3	677.5	820.5	823.0	827.9	831.6	810.9
102.5°	105.8	142.8	179.7	188.9	406.7	696.9	842.0	885.1	971.4	1036.0	1018.3
105°	136.8	168.1	199.4	207.2	418.0	699.1	839.6	936.3	1129.6	1274.7	1265.2
107.5°	168.7	197.8	227.0	234.3	420.2	667.9	791.8	926.7	1196.5	1398.8	1401.1
110°	190.1	216.5	242.8	249.4	416.9	640.4	752.0	902.8	1204.4	1430.6	1440.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.2	236.3	261.3	267.6	417.1	616.3	715.9	870.2	1178.8	1410.3	1425.5
115°	243.0	266.1	289.2	295.1	420.9	588.7	672.6	821.3	1118.6	1341.5	1362.6
117.5°	274.4	295.5	316.5	321.8	428.8	571.4	642.8	776.9	1045.2	1246.5	1269.8
120°	292.7	312.5	332.3	337.2	435.1	565.6	630.8	753.4	998.6	1182.4	1205.2
122.5°	310.7	330.7	350.6	355.6	444.2	562.5	621.6	732.0	952.8	1118.4	1140.7
125°	338.1	356.3	374.4	379.0	456.6	559.9	611.7	705.5	893.0	1033.6	1054.3
127.5°	360.3	378.7	397.1	401.7	468.9	558.5	603.4	683.9	844.9	965.7	983.1
130°	372.2	392.0	411.8	416.8	477.9	559.5	600.2	671.9	815.3	922.7	938.8
132.5°	384.6	404.4	424.2	429.1	485.2	559.9	597.3	661.5	789.8	886.1	900.5
135°	402.9	420.9	439.0	443.5	493.2	559.5	592.6	646.4	753.8	834.4	846.8
137.5°	421.6	439.5	457.3	461.7	505.1	562.9	591.8	637.2	728.0	796.2	806.4
140°	437.1	453.5	470.0	474.1	512.4	563.5	589.0	628.2	706.7	765.6	775.1
142.5°	449.0	464.2	479.4	483.3	518.5	565.5	589.0	623.4	692.4	744.1	752.3
145°	467.3	480.6	493.8	497.1	526.5	565.6	585.1	613.3	669.6	711.9	718.1
147.5°	485.7	498.6	511.4	514.6	538.1	569.4	585.1	607.3	651.6	684.9	690.1
150°	497.5	509.2	520.8	523.8	544.3	571.5	585.1	603.8	641.2	669.3	673.4
152.5°	509.8	518.6	527.5	529.7	548.2	572.8	585.1	601.1	633.0	657.0	660.2
155°	528.2	534.7	541.3	542.9	557.0	575.7	585.1	597.8	623.2	642.3	644.4
157.5°	541.7	548.1	554.4	556.0	565.7	578.6	585.1	594.9	614.7	629.6	631.0
160°	550.9	555.8	560.7	562.0	569.7	579.9	585.1	593.6	610.5	623.2	624.1
162.5°	559.9	563.7	567.4	568.4	573.9	581.4	585.1	592.3	606.5	617.2	618.0
165°	569.9	573.2	576.6	577.4	580.0	583.4	585.1	590.3	600.5	608.1	609.0
167.5°	579.1	580.7	582.3	582.7	584.8	587.6	589.0	592.4	599.1	604.1	604.5
170°	585.1	586.6	588.2	588.6	588.7	588.9	589.0	592.4	599.1	604.1	604.1
172.5°	588.2	588.6	588.9	589.0	589.0	589.0	589.0	591.7	597.0	601.0	600.7
175°	592.6	592.6	592.6	592.6	591.4	589.8	589.0	590.7	594.1	596.6	596.6
177.5°	592.6	592.6	592.6	592.6	591.7	590.4	589.8	591.1	593.8	595.8	595.4
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1369.5	1365.7	1369.5	1367.0	1368.2	1364.4	1353.0	1349.3	1353.0	1356.8	1356.8
5°	1385.9	1383.4	1385.9	1385.9	1384.7	1382.1	1369.5	1367.0	1369.5	1370.7	1368.2
7.5°	1391.0	1387.1	1391.0	1388.4	1388.4	1385.9	1373.3	1370.7	1372.0	1375.8	1372.0
10°	1391.0	1387.1	1391.0	1389.7	1388.4	1385.9	1373.3	1368.2	1368.2	1372.0	1368.2
12.5°	1384.7	1382.1	1384.7	1382.1	1382.1	1379.6	1367.0	1361.9	1363.1	1364.4	1359.4
15°	1374.5	1370.7	1374.5	1372.0	1373.3	1369.5	1355.6	1350.5	1350.5	1353.0	1344.2
17.5°	1359.4	1354.4	1359.4	1358.1	1356.8	1354.4	1341.7	1336.7	1335.3	1336.7	1330.4
20°	1341.7	1337.9	1341.7	1340.4	1340.4	1335.3	1322.7	1316.4	1316.4	1316.4	1310.1
22.5°	1313.9	1310.1	1313.9	1316.4	1316.4	1315.1	1303.8	1295.0	1292.4	1292.4	1284.8
25°	1282.4	1278.5	1282.4	1282.4	1281.0	1282.4	1278.5	1273.5	1269.6	1265.9	1258.3
27.5°	1251.9	1249.5	1251.9	1249.5	1251.9	1248.2	1247.0	1245.6	1240.7	1236.8	1226.7
30°	1221.6	1219.1	1221.6	1219.1	1216.7	1214.1	1207.8	1205.3	1210.3	1207.8	1191.3
32.5°	1183.8	1181.3	1183.8	1183.8	1181.3	1181.3	1171.1	1167.3	1168.6	1176.2	1161.0
35°	1144.6	1140.8	1144.6	1143.3	1144.6	1140.8	1134.5	1133.2	1128.2	1137.0	1125.6
37.5°	1099.1	1095.3	1099.1	1099.1	1099.1	1101.6	1096.6	1092.8	1085.2	1096.6	1087.8
40°	1052.4	1047.3	1052.4	1051.1	1052.4	1054.9	1052.4	1049.8	1042.3	1051.1	1043.5
42.5°	999.3	998.1	999.3	1000.6	1000.6	1005.6	1009.5	1004.4	1001.8	995.5	1000.6
45°	942.4	939.9	942.4	945.0	946.2	948.7	960.1	960.1	956.4	946.2	953.8
47.5°	881.8	875.5	881.8	889.5	889.5	893.2	904.6	913.5	907.0	894.4	898.2
50°	817.4	818.7	817.4	822.4	822.4	836.4	845.2	854.1	860.4	845.2	827.5
52.5°	754.2	753.0	754.2	758.0	763.0	769.4	784.6	793.4	803.5	794.7	766.9
55°	691.0	693.6	691.0	692.3	694.9	698.6	721.4	730.2	749.2	737.8	708.7
57.5°	627.9	624.1	627.9	630.4	631.7	635.5	654.4	670.9	682.2	683.5	648.1
60°	554.6	549.5	554.6	566.0	568.6	571.0	588.7	603.9	614.0	617.8	581.2
62.5°	490.1	481.3	490.1	497.8	502.9	509.2	521.8	544.6	553.3	554.6	502.9
65°	422.0	418.1	422.0	437.1	438.4	446.0	459.8	476.3	495.2	492.7	418.1
67.5°	360.1	360.1	360.1	370.1	377.7	381.5	399.2	406.8	430.8	433.3	348.7
70°	303.2	302.0	303.2	310.8	315.8	324.7	341.1	350.0	368.9	375.2	283.0
72.5°	248.9	247.7	248.9	255.2	260.3	267.8	281.7	291.8	308.3	315.8	219.8
75°	200.9	198.3	200.9	206.0	204.6	214.8	226.1	236.3	251.4	256.5	162.9
77.5°	154.1	154.1	154.1	159.2	159.2	169.2	174.3	186.9	195.8	203.4	120.0
80°	114.9	113.7	114.9	116.3	116.3	121.2	130.1	138.9	146.6	146.6	82.1
82.5°	80.9	78.3	80.9	80.9	80.9	83.4	88.4	90.9	96.0	99.8	51.8
85°	50.5	50.5	50.5	51.8	50.5	53.1	54.3	56.9	56.9	54.3	31.6
87.5°	32.9	31.6	32.9	31.6	31.6	30.3	30.3	30.3	29.1	27.8	17.7
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0	17.5	11.1
92.5°	60.5	48.5	60.5	72.6	75.5	107.1	149.2	170.2	149.5	108.0	76.8
95°	211.0	174.6	211.0	247.5	256.5	336.9	444.0	497.5	420.2	265.5	149.5
97.5°	505.5	436.3	505.5	574.9	592.2	642.9	710.6	744.5	615.6	357.7	164.3
100°	728.4	645.9	728.4	810.9	831.6	827.9	823.0	820.5	677.5	391.3	176.6
102.5°	947.7	877.0	947.7	1018.3	1036.0	971.4	885.1	842.0	696.9	406.7	188.9
105°	1227.2	1189.2	1227.2	1265.2	1274.7	1129.6	936.3	839.6	699.1	418.0	207.2
107.5°	1410.3	1419.5	1410.3	1401.1	1398.8	1196.5	926.7	791.8	667.9	420.2	234.3
110°	1480.1	1519.7	1480.1	1440.5	1430.6	1204.4	902.8	752.0	640.4	416.9	249.4



TEST NUMBER: P935236

CATALOG NUMBER: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1486.3	1547.1	1486.3	1425.5	1410.3	1178.8	870.2	715.9	616.3	417.1	267.6
115°	1446.9	1531.2	1446.9	1362.6	1341.5	1118.6	821.3	672.6	588.7	420.9	295.1
117.5°	1363.3	1456.9	1363.3	1269.8	1246.5	1045.2	776.9	642.8	571.4	428.8	321.8
120°	1296.0	1386.9	1296.0	1205.2	1182.4	998.6	753.4	630.8	565.6	435.1	337.2
122.5°	1230.4	1320.0	1230.4	1140.7	1118.4	952.8	732.0	621.6	562.5	444.2	355.6
125°	1136.8	1219.4	1136.8	1054.3	1033.6	893.0	705.5	611.7	559.9	456.6	379.0
127.5°	1052.8	1122.4	1052.8	983.1	965.7	844.9	683.9	603.4	558.5	468.9	401.7
130°	1003.1	1067.5	1003.1	938.8	922.7	815.3	671.9	600.2	559.5	477.9	416.8
132.5°	958.1	1015.8	958.1	900.5	886.1	789.8	661.5	597.3	559.9	485.2	429.1
135°	896.4	946.2	896.4	846.8	834.4	753.8	646.4	592.6	559.5	493.2	443.5
137.5°	847.1	887.7	847.1	806.4	796.2	728.0	637.2	591.8	562.9	505.1	461.7
140°	813.1	851.1	813.1	775.1	765.6	706.7	628.2	589.0	563.5	512.4	474.1
142.5°	785.0	817.7	785.0	752.3	744.1	692.4	623.4	589.0	565.5	518.5	483.3
145°	742.9	767.6	742.9	718.1	711.9	669.6	613.3	585.1	565.6	526.5	497.1
147.5°	710.5	731.0	710.5	690.1	684.9	651.6	607.3	585.1	569.4	538.1	514.6
150°	690.1	706.7	690.1	673.4	669.3	641.2	603.8	585.1	571.5	544.3	523.8
152.5°	672.7	685.3	672.7	660.2	657.0	633.0	601.1	585.1	572.8	548.2	529.7
155°	652.7	661.0	652.7	644.4	642.3	623.2	597.8	585.1	575.7	557.0	542.9
157.5°	636.9	642.8	636.9	631.0	629.6	614.7	594.9	585.1	578.6	565.7	556.0
160°	627.5	630.8	627.5	624.1	623.2	610.5	593.6	585.1	579.9	569.7	562.0
162.5°	621.2	624.4	621.2	618.0	617.2	606.5	592.3	585.1	581.4	573.9	568.4
165°	612.3	615.7	612.3	609.0	608.1	600.5	590.3	585.1	583.4	580.0	577.4
167.5°	605.8	607.3	605.8	604.5	604.1	599.1	592.4	589.0	587.6	584.8	582.7
170°	604.1	604.1	604.1	604.1	604.1	599.1	592.4	589.0	588.9	588.7	588.6
172.5°	599.4	598.2	599.4	600.7	601.0	597.0	591.7	589.0	589.0	589.0	589.0
175°	596.6	596.6	596.6	596.6	596.6	594.1	590.7	589.0	589.8	591.4	592.6
177.5°	594.1	592.6	594.1	595.4	595.8	593.8	591.1	589.8	590.4	591.7	592.6
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935236

CATALOG NUMBER: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1354.4	1346.7	1346.7	1334.1	1329.0	1325.3	1319.0	1300.0	1295.0	1289.9	1297.5
5°	1365.7	1351.8	1341.7	1319.0	1300.0	1292.4	1268.4	1223.0	1192.6	1169.9	1157.3
7.5°	1368.2	1350.5	1331.6	1296.2	1250.7	1230.5	1157.3	1073.9	1051.1	1030.9	1018.2
10°	1365.7	1345.5	1319.0	1265.9	1158.5	1123.1	1049.8	995.5	981.6	977.8	981.6
12.5°	1356.8	1337.9	1301.3	1212.8	1062.5	1038.5	995.5	963.9	961.5	967.8	1001.8
15°	1341.7	1324.0	1281.0	1142.1	1009.5	991.8	961.5	950.1	963.9	1008.1	1110.5
17.5°	1326.5	1306.4	1253.3	1072.6	969.0	956.4	934.9	957.6	1035.9	1095.3	1129.5
20°	1306.4	1282.4	1221.6	1022.1	939.9	928.6	918.4	1020.8	1080.2	1101.6	1120.6
22.5°	1282.4	1257.0	1178.7	986.7	909.6	900.7	907.0	1056.2	1080.2	1095.3	1111.8
25°	1250.7	1229.3	1128.2	958.9	885.6	875.5	899.5	1052.4	1066.3	1070.1	1102.9
27.5°	1221.6	1193.9	1075.1	933.6	856.6	852.7	905.8	1035.9	1046.1	1049.8	1085.2
30°	1186.3	1144.6	1015.8	907.0	826.2	825.0	907.0	1015.8	1013.2	1023.3	1058.7
32.5°	1149.6	1071.3	948.7	874.2	797.2	795.9	898.2	985.5	982.9	996.8	1023.3
35°	1115.6	1014.5	857.8	836.4	760.6	761.8	876.7	950.1	951.3	963.9	980.4
37.5°	1080.2	965.2	758.0	794.7	725.2	725.2	847.7	917.2	914.7	918.4	941.2
40°	1038.5	888.1	669.6	740.3	692.3	688.6	812.4	881.8	873.0	871.8	903.3
42.5°	994.2	803.5	603.9	668.3	654.4	649.4	769.4	838.9	822.4	826.2	866.7
45°	946.2	780.7	553.3	564.7	615.2	611.5	722.6	789.6	778.2	788.4	830.1
47.5°	898.2	735.3	536.9	468.7	573.5	572.3	670.9	741.6	735.3	745.4	789.6
50°	832.6	684.7	535.7	401.8	526.9	531.8	608.9	694.9	694.9	703.7	750.4
52.5°	747.9	622.9	486.4	363.8	472.5	487.7	554.6	654.4	656.9	665.8	707.5
55°	670.9	558.4	451.0	334.8	408.1	440.9	501.5	612.7	617.8	626.6	664.6
57.5°	600.1	464.9	443.5	300.7	348.7	380.3	454.8	572.3	574.9	582.4	619.0
60°	524.3	336.0	406.8	264.0	296.9	320.9	411.8	524.3	533.2	538.1	569.8
62.5°	438.4	243.8	368.9	238.8	271.7	276.7	376.5	478.8	490.1	494.0	512.9
65°	312.0	204.6	313.3	217.3	245.1	246.3	338.6	432.1	442.1	448.5	462.4
67.5°	210.9	166.8	238.8	197.1	224.9	226.1	302.0	377.7	391.7	396.7	405.5
70°	146.6	111.2	176.9	175.7	202.1	204.6	262.8	328.5	341.1	344.9	350.0
72.5°	107.4	89.7	146.6	158.0	178.1	180.6	222.3	272.9	285.5	289.3	291.8
75°	82.1	94.8	118.8	137.7	151.6	152.9	182.0	222.3	231.2	233.7	234.9
77.5°	65.7	88.4	87.2	111.2	123.8	121.2	142.8	171.8	179.4	179.4	179.4
80°	49.2	69.5	65.7	79.6	90.9	88.4	102.3	122.6	125.1	127.6	126.3
82.5°	36.6	44.2	44.2	50.5	60.6	58.1	68.2	79.6	79.6	79.6	82.1
85°	22.8	25.2	20.2	26.5	34.1	32.9	37.9	42.9	44.2	44.2	41.7
87.5°	13.9	11.4	6.3	10.1	15.2	15.2	17.7	18.9	17.7	17.7	17.7
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2
92.5°	70.0	42.9	15.9	42.9	70.0	76.8	108.0	149.5	170.2	149.2	107.1
95°	137.2	87.7	38.2	87.7	137.2	149.5	265.5	420.2	497.5	444.0	336.9
97.5°	153.4	109.7	66.0	109.7	153.4	164.3	357.7	615.6	744.5	710.6	642.9
100°	166.7	127.1	87.5	127.1	166.7	176.6	391.3	677.5	820.5	823.0	827.9
102.5°	179.7	142.8	105.8	142.8	179.7	188.9	406.7	696.9	842.0	885.1	971.4
105°	199.4	168.1	136.8	168.1	199.4	207.2	418.0	699.1	839.6	936.3	1129.6
107.5°	227.0	197.8	168.7	197.8	227.0	234.3	420.2	667.9	791.8	926.7	1196.5
110°	242.8	216.5	190.1	216.5	242.8	249.4	416.9	640.4	752.0	902.8	1204.4



TEST NUMBER: P935236

CATALOG NUMBER: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.3	236.3	211.2	236.3	261.3	267.6	417.1	616.3	715.9	870.2	1178.8
115°	289.2	266.1	243.0	266.1	289.2	295.1	420.9	588.7	672.6	821.3	1118.6
117.5°	316.5	295.5	274.4	295.5	316.5	321.8	428.8	571.4	642.8	776.9	1045.2
120°	332.3	312.5	292.7	312.5	332.3	337.2	435.1	565.6	630.8	753.4	998.6
122.5°	350.6	330.7	310.7	330.7	350.6	355.6	444.2	562.5	621.6	732.0	952.8
125°	374.4	356.3	338.1	356.3	374.4	379.0	456.6	559.9	611.7	705.5	893.0
127.5°	397.1	378.7	360.3	378.7	397.1	401.7	468.9	558.5	603.4	683.9	844.9
130°	411.8	392.0	372.2	392.0	411.8	416.8	477.9	559.5	600.2	671.9	815.3
132.5°	424.2	404.4	384.6	404.4	424.2	429.1	485.2	559.9	597.3	661.5	789.8
135°	439.0	420.9	402.9	420.9	439.0	443.5	493.2	559.5	592.6	646.4	753.8
137.5°	457.3	439.5	421.6	439.5	457.3	461.7	505.1	562.9	591.8	637.2	728.0
140°	470.0	453.5	437.1	453.5	470.0	474.1	512.4	563.5	589.0	628.2	706.7
142.5°	479.4	464.2	449.0	464.2	479.4	483.3	518.5	565.5	589.0	623.4	692.4
145°	493.8	480.6	467.3	480.6	493.8	497.1	526.5	565.6	585.1	613.3	669.6
147.5°	511.4	498.6	485.7	498.6	511.4	514.6	538.1	569.4	585.1	607.3	651.6
150°	520.8	509.2	497.5	509.2	520.8	523.8	544.3	571.5	585.1	603.8	641.2
152.5°	527.5	518.6	509.8	518.6	527.5	529.7	548.2	572.8	585.1	601.1	633.0
155°	541.3	534.7	528.2	534.7	541.3	542.9	557.0	575.7	585.1	597.8	623.2
157.5°	554.4	548.1	541.7	548.1	554.4	556.0	565.7	578.6	585.1	594.9	614.7
160°	560.7	555.8	550.9	555.8	560.7	562.0	569.7	579.9	585.1	593.6	610.5
162.5°	567.4	563.7	559.9	563.7	567.4	568.4	573.9	581.4	585.1	592.3	606.5
165°	576.6	573.2	569.9	573.2	576.6	577.4	580.0	583.4	585.1	590.3	600.5
167.5°	582.3	580.7	579.1	580.7	582.3	582.7	584.8	587.6	589.0	592.4	599.1
170°	588.2	586.6	585.1	586.6	588.2	588.6	588.7	588.9	589.0	592.4	599.1
172.5°	588.9	588.6	588.2	588.6	588.9	589.0	589.0	589.0	589.0	591.7	597.0
175°	592.6	592.6	592.6	592.6	592.6	592.6	591.4	589.8	589.0	590.7	594.1
177.5°	592.6	592.6	592.6	592.6	592.6	592.6	591.7	590.4	589.8	591.1	593.8
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935236

CATALOG NUMBER: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1288.7	1284.8	1289.9	1275.9	1289.9	1284.8	1288.7	1297.5	1289.9	1295.0	1300.0
5°	1130.7	1124.4	1104.2	1087.8	1104.2	1124.4	1130.7	1157.3	1169.9	1192.6	1223.0
7.5°	1010.7	1005.6	1000.6	990.4	1000.6	1005.6	1010.7	1018.2	1030.9	1051.1	1073.9
10°	984.1	985.5	993.0	991.8	993.0	985.5	984.1	981.6	977.8	981.6	995.5
12.5°	1052.4	1063.8	1105.5	1102.9	1105.5	1063.8	1052.4	1001.8	967.8	961.5	963.9
15°	1130.7	1134.5	1143.3	1144.6	1143.3	1134.5	1130.7	1110.5	1008.1	963.9	950.1
17.5°	1138.3	1139.6	1145.9	1145.9	1145.9	1139.6	1138.3	1129.5	1095.3	1035.9	957.6
20°	1131.9	1134.5	1147.1	1149.6	1147.1	1134.5	1131.9	1120.6	1101.6	1080.2	1020.8
22.5°	1129.5	1134.5	1144.6	1143.3	1144.6	1134.5	1129.5	1111.8	1095.3	1080.2	1056.2
25°	1116.8	1116.8	1118.1	1119.3	1118.1	1116.8	1116.8	1102.9	1070.1	1066.3	1052.4
27.5°	1090.3	1092.8	1100.4	1099.1	1100.4	1092.8	1090.3	1085.2	1049.8	1046.1	1035.9
30°	1066.3	1063.8	1057.5	1052.4	1057.5	1063.8	1066.3	1058.7	1023.3	1013.2	1015.8
32.5°	1025.8	1019.5	1013.2	1009.5	1013.2	1019.5	1025.8	1023.3	996.8	982.9	985.5
35°	977.8	979.1	977.8	974.1	977.8	979.1	977.8	980.4	963.9	951.3	950.1
37.5°	943.8	946.2	945.0	939.9	945.0	946.2	943.8	941.2	918.4	914.7	917.2
40°	908.4	909.6	908.4	904.6	908.4	909.6	908.4	903.3	871.8	873.0	881.8
42.5°	874.2	873.0	869.2	866.7	869.2	873.0	874.2	866.7	826.2	822.4	838.9
45°	835.0	836.4	828.7	825.0	828.7	836.4	835.0	830.1	788.4	778.2	789.6
47.5°	795.9	795.9	789.6	785.8	789.6	795.9	795.9	789.6	745.4	735.3	741.6
50°	754.2	753.0	744.1	742.9	744.1	753.0	754.2	750.4	703.7	694.9	694.9
52.5°	706.2	706.2	707.5	710.0	707.5	706.2	706.2	707.5	665.8	656.9	654.4
55°	664.6	665.8	674.6	677.2	674.6	665.8	664.6	664.6	626.6	617.8	612.7
57.5°	621.5	621.5	627.9	627.9	627.9	621.5	621.5	619.0	582.4	574.9	572.3
60°	572.3	574.9	579.8	578.6	579.8	574.9	572.3	569.8	538.1	533.2	524.3
62.5°	520.5	523.0	524.3	521.8	524.3	523.0	520.5	512.9	494.0	490.1	478.8
65°	466.1	468.7	470.0	467.5	470.0	468.7	466.1	462.4	448.5	442.1	432.1
67.5°	410.6	409.3	408.1	413.1	408.1	409.3	410.6	405.5	396.7	391.7	377.7
70°	353.7	353.7	352.5	355.0	352.5	353.7	353.7	350.0	344.9	341.1	328.5
72.5°	293.1	291.8	296.9	293.1	296.9	291.8	293.1	291.8	289.3	285.5	272.9
75°	233.7	236.3	233.7	237.5	233.7	236.3	233.7	234.9	233.7	231.2	222.3
77.5°	178.1	180.6	178.1	178.1	178.1	180.6	178.1	179.4	179.4	179.4	171.8
80°	126.3	125.1	125.1	123.8	125.1	125.1	126.3	126.3	127.6	125.1	122.6
82.5°	80.9	79.6	79.6	82.1	79.6	79.6	80.9	82.1	79.6	79.6	79.6
85°	44.2	45.5	42.9	42.9	42.9	45.5	44.2	41.7	44.2	44.2	42.9
87.5°	16.4	15.2	15.2	15.2	15.2	15.2	16.4	17.7	17.7	17.7	18.9
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0
92.5°	75.5	72.6	60.5	48.5	60.5	72.6	75.5	107.1	149.2	170.2	149.5
95°	256.5	247.5	211.0	174.6	211.0	247.5	256.5	336.9	444.0	497.5	420.2
97.5°	592.2	574.9	505.5	436.3	505.5	574.9	592.2	642.9	710.6	744.5	615.6
100°	831.6	810.9	728.4	645.9	728.4	810.9	831.6	827.9	823.0	820.5	677.5
102.5°	1036.0	1018.3	947.7	877.0	947.7	1018.3	1036.0	971.4	885.1	842.0	696.9
105°	1274.7	1265.2	1227.2	1189.2	1227.2	1265.2	1274.7	1129.6	936.3	839.6	699.1
107.5°	1398.8	1401.1	1410.3	1419.5	1410.3	1401.1	1398.8	1196.5	926.7	791.8	667.9
110°	1430.6	1440.5	1480.1	1519.7	1480.1	1440.5	1430.6	1204.4	902.8	752.0	640.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1410.3	1425.5	1486.3	1547.1	1486.3	1425.5	1410.3	1178.8	870.2	715.9	616.3
115°	1341.5	1362.6	1446.9	1531.2	1446.9	1362.6	1341.5	1118.6	821.3	672.6	588.7
117.5°	1246.5	1269.8	1363.3	1456.9	1363.3	1269.8	1246.5	1045.2	776.9	642.8	571.4
120°	1182.4	1205.2	1296.0	1386.9	1296.0	1205.2	1182.4	998.6	753.4	630.8	565.6
122.5°	1118.4	1140.7	1230.4	1320.0	1230.4	1140.7	1118.4	952.8	732.0	621.6	562.5
125°	1033.6	1054.3	1136.8	1219.4	1136.8	1054.3	1033.6	893.0	705.5	611.7	559.9
127.5°	965.7	983.1	1052.8	1122.4	1052.8	983.1	965.7	844.9	683.9	603.4	558.5
130°	922.7	938.8	1003.1	1067.5	1003.1	938.8	922.7	815.3	671.9	600.2	559.5
132.5°	886.1	900.5	958.1	1015.8	958.1	900.5	886.1	789.8	661.5	597.3	559.9
135°	834.4	846.8	896.4	946.2	896.4	846.8	834.4	753.8	646.4	592.6	559.5
137.5°	796.2	806.4	847.1	887.7	847.1	806.4	796.2	728.0	637.2	591.8	562.9
140°	765.6	775.1	813.1	851.1	813.1	775.1	765.6	706.7	628.2	589.0	563.5
142.5°	744.1	752.3	785.0	817.7	785.0	752.3	744.1	692.4	623.4	589.0	565.5
145°	711.9	718.1	742.9	767.6	742.9	718.1	711.9	669.6	613.3	585.1	565.6
147.5°	684.9	690.1	710.5	731.0	710.5	690.1	684.9	651.6	607.3	585.1	569.4
150°	669.3	673.4	690.1	706.7	690.1	673.4	669.3	641.2	603.8	585.1	571.5
152.5°	657.0	660.2	672.7	685.3	672.7	660.2	657.0	633.0	601.1	585.1	572.8
155°	642.3	644.4	652.7	661.0	652.7	644.4	642.3	623.2	597.8	585.1	575.7
157.5°	629.6	631.0	636.9	642.8	636.9	631.0	629.6	614.7	594.9	585.1	578.6
160°	623.2	624.1	627.5	630.8	627.5	624.1	623.2	610.5	593.6	585.1	579.9
162.5°	617.2	618.0	621.2	624.4	621.2	618.0	617.2	606.5	592.3	585.1	581.4
165°	608.1	609.0	612.3	615.7	612.3	609.0	608.1	600.5	590.3	585.1	583.4
167.5°	604.1	604.5	605.8	607.3	605.8	604.5	604.1	599.1	592.4	589.0	587.6
170°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	599.1	592.4	589.0	588.9
172.5°	601.0	600.7	599.4	598.2	599.4	600.7	601.0	597.0	591.7	589.0	589.0
175°	596.6	596.6	596.6	596.6	596.6	596.6	596.6	594.1	590.7	589.0	589.8
177.5°	595.8	595.4	594.1	592.6	594.1	595.4	595.8	593.8	591.1	589.8	590.4
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1335.3	1335.3	1335.3	1335.3	1335.3
2.5°	1319.0	1325.3	1329.0	1334.1	1346.7
5°	1268.4	1292.4	1300.0	1319.0	1341.7
7.5°	1157.3	1230.5	1250.7	1296.2	1331.6
10°	1049.8	1123.1	1158.5	1265.9	1319.0
12.5°	995.5	1038.5	1062.5	1212.8	1301.3
15°	961.5	991.8	1009.5	1142.1	1281.0
17.5°	934.9	956.4	969.0	1072.6	1253.3
20°	918.4	928.6	939.9	1022.1	1221.6
22.5°	907.0	900.7	909.6	986.7	1178.7
25°	899.5	875.5	885.6	958.9	1128.2
27.5°	905.8	852.7	856.6	933.6	1075.1
30°	907.0	825.0	826.2	907.0	1015.8
32.5°	898.2	795.9	797.2	874.2	948.7
35°	876.7	761.8	760.6	836.4	857.8
37.5°	847.7	725.2	725.2	794.7	758.0
40°	812.4	688.6	692.3	740.3	669.6
42.5°	769.4	649.4	654.4	668.3	603.9
45°	722.6	611.5	615.2	564.7	553.3
47.5°	670.9	572.3	573.5	468.7	536.9
50°	608.9	531.8	526.9	401.8	535.7
52.5°	554.6	487.7	472.5	363.8	486.4
55°	501.5	440.9	408.1	334.8	451.0
57.5°	454.8	380.3	348.7	300.7	443.5
60°	411.8	320.9	296.9	264.0	406.8
62.5°	376.5	276.7	271.7	238.8	368.9
65°	338.6	246.3	245.1	217.3	313.3
67.5°	302.0	226.1	224.9	197.1	238.8
70°	262.8	204.6	202.1	175.7	176.9
72.5°	222.3	180.6	178.1	158.0	146.6
75°	182.0	152.9	151.6	137.7	118.8
77.5°	142.8	121.2	123.8	111.2	87.2
80°	102.3	88.4	90.9	79.6	65.7
82.5°	68.2	58.1	60.6	50.5	44.2
85°	37.9	32.9	34.1	26.5	20.2
87.5°	17.7	15.2	15.2	10.1	6.3
90°	17.5	11.1	10.3	7.2	4.0
92.5°	108.0	76.8	70.0	42.9	15.9
95°	265.5	149.5	137.2	87.7	38.2
97.5°	357.7	164.3	153.4	109.7	66.0
100°	391.3	176.6	166.7	127.1	87.5
102.5°	406.7	188.9	179.7	142.8	105.8
105°	418.0	207.2	199.4	168.1	136.8
107.5°	420.2	234.3	227.0	197.8	168.7
110°	416.9	249.4	242.8	216.5	190.1



TEST NUMBER: P935236

CATALOG NUMBER: SQ4-FA-100U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	417.1	267.6	261.3	236.3	211.2
115°	420.9	295.1	289.2	266.1	243.0
117.5°	428.8	321.8	316.5	295.5	274.4
120°	435.1	337.2	332.3	312.5	292.7
122.5°	444.2	355.6	350.6	330.7	310.7
125°	456.6	379.0	374.4	356.3	338.1
127.5°	468.9	401.7	397.1	378.7	360.3
130°	477.9	416.8	411.8	392.0	372.2
132.5°	485.2	429.1	424.2	404.4	384.6
135°	493.2	443.5	439.0	420.9	402.9
137.5°	505.1	461.7	457.3	439.5	421.6
140°	512.4	474.1	470.0	453.5	437.1
142.5°	518.5	483.3	479.4	464.2	449.0
145°	526.5	497.1	493.8	480.6	467.3
147.5°	538.1	514.6	511.4	498.6	485.7
150°	544.3	523.8	520.8	509.2	497.5
152.5°	548.2	529.7	527.5	518.6	509.8
155°	557.0	542.9	541.3	534.7	528.2
157.5°	565.7	556.0	554.4	548.1	541.7
160°	569.7	562.0	560.7	555.8	550.9
162.5°	573.9	568.4	567.4	563.7	559.9
165°	580.0	577.4	576.6	573.2	569.9
167.5°	584.8	582.7	582.3	580.7	579.1
170°	588.7	588.6	588.2	586.6	585.1
172.5°	589.0	589.0	588.9	588.6	588.2
175°	591.4	592.6	592.6	592.6	592.6
177.5°	591.7	592.6	592.6	592.6	592.6
180°	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935236
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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	13.29	14.13	14.27	15.13	16.43	16.09	16.93	17.07	17.92	19.23
	3H	13.77	14.52	14.76	15.52	16.85	17.43	18.18	18.42	19.18	20.51
	4H	13.96	14.67	14.96	15.68	17.01	17.86	18.57	18.87	19.58	20.92
	6H	14.08	14.73	15.09	15.74	17.09	18.14	18.79	19.15	19.80	21.15
	8H	14.08	14.70	15.10	15.73	17.08	18.21	18.83	19.23	19.86	21.20
	12H	14.05	14.64	15.07	15.66	17.03	18.24	18.83	19.27	19.85	21.22
4H	2H	14.32	15.03	15.33	16.03	17.37	16.50	17.21	17.51	18.22	19.55
	3H	15.34	15.93	16.36	16.97	18.32	17.99	18.59	19.01	19.62	20.97
	4H	15.62	16.16	16.64	17.18	18.56	18.51	19.06	19.54	20.08	21.46
	6H	15.74	16.21	16.78	17.26	18.63	18.87	19.34	19.91	20.39	21.76
	8H	15.75	16.18	16.78	17.22	18.61	18.97	19.41	20.01	20.45	21.83
	12H	15.71	16.11	16.77	17.16	18.55	19.02	19.42	20.08	20.47	21.86
8H	4H	16.06	16.50	17.10	17.54	18.93	18.64	19.07	19.68	20.12	21.50
	6H	16.32	16.68	17.39	17.77	19.15	19.07	19.43	20.13	20.51	21.89
	8H	16.37	16.68	17.44	17.75	19.15	19.21	19.53	20.28	20.60	22.00
	12H	16.35	16.63	17.42	17.69	19.13	19.30	19.58	20.38	20.65	22.09
12H	4H	16.07	16.46	17.12	17.52	18.91	18.60	19.00	19.66	20.05	21.44
	6H	16.38	16.70	17.45	17.77	19.17	19.06	19.38	20.13	20.45	21.85
	8H	16.45	16.73	17.52	17.79	19.23	19.22	19.50	20.29	20.56	22.00