

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: P935636

Luminaire Tested: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935636
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-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: -

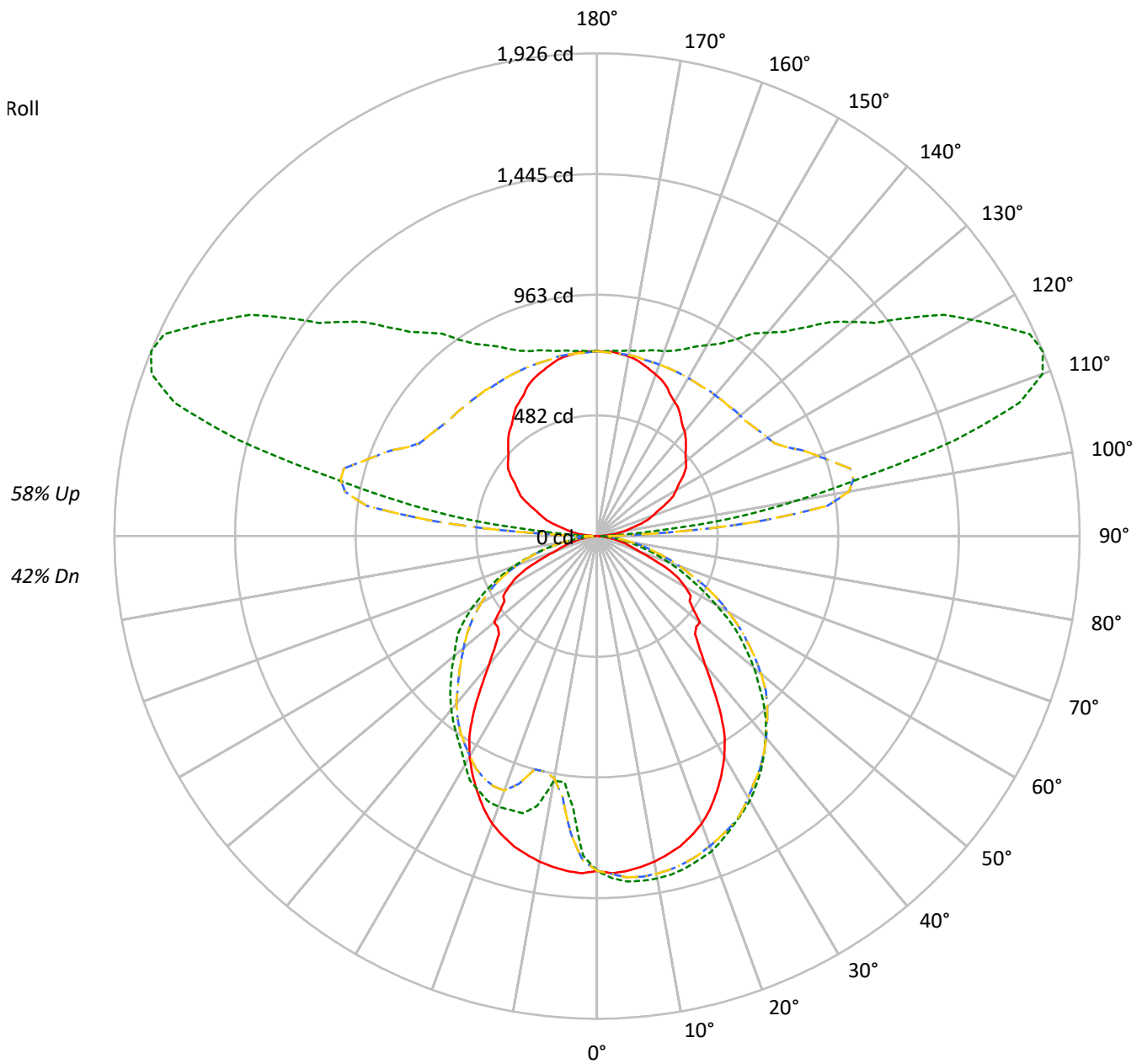
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8247.2 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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-125U-100D-92765-1D-UNV-STD-W-4-6500K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	41	41	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	35	35	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	30	30	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	25	25	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	22	22	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	19	19	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	15	15	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	14	14	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	13	13	13	11

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	1.5
10°-20°	342.2	4.1
20°-30°	529.1	6.4
30°-40°	631.6	7.7
40°-50°	635.3	7.7
50°-60°	552.8	6.7
60°-70°	391.9	4.8
70°-80°	207.3	2.5
80°-90°	54.5	0.7
90°-100°	359.6	4.4
100°-110°	945.4	11.5
110°-120°	980.2	11.9
120°-130°	786.3	9.5
130°-140°	616.9	7.5
140°-150°	473.5	5.7
150°-160°	341.0	4.1
160°-170°	208.7	2.5
170°-180°	70.5	0.9
0°-30°	991.8	12.0
0°-40°	1623.4	19.7
0°-60°	2811.5	34.1
0°-90°	3465.2	42.0
90°-120°	2285.1	27.7
90°-150°	4161.8	50.5
90°-180°	4782.0	58.0
0°-180°	8247.2	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°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1480	170	1480	170	181
115°	302	1906	302	1906	302	299
125°	421	1518	421	1518	421	374
135°	502	1178	502	1178	502	388
145°	582	956	582	956	582	364
155°	658	823	658	823	658	302
165°	709	766	709	766	709	200
175°	738	743	738	743	738	70
180°	738	738	738	738	738	



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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°	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.1	18.8	18.8
92.5°	19.8	53.5	87.1	95.5	134.3	186.1	211.9	185.7	133.4	94.1	90.4
95°	47.5	109.1	170.8	186.2	330.6	523.0	619.3	552.7	419.4	319.4	308.0
97.5°	82.1	136.4	190.9	204.4	445.2	766.2	926.7	884.6	800.3	737.1	715.6
100°	108.9	158.2	207.5	219.8	487.0	843.2	1021.3	1024.4	1030.6	1035.2	1009.5
102.5°	131.7	177.7	223.7	235.1	506.1	867.5	1048.1	1101.8	1209.2	1289.7	1267.7
105°	170.3	209.3	248.2	258.0	520.4	870.2	1045.1	1165.5	1406.2	1586.7	1574.8
107.5°	209.9	246.2	282.6	291.6	523.0	831.5	985.7	1153.6	1489.4	1741.1	1744.0
110°	236.7	269.5	302.2	310.4	519.0	797.2	936.2	1123.9	1499.3	1780.8	1793.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.9	294.1	325.3	333.1	519.1	767.2	891.2	1083.3	1467.5	1755.6	1774.5
115°	302.4	331.3	360.2	367.4	524.0	732.7	837.1	1022.2	1392.3	1669.9	1696.1
117.5°	341.6	367.8	394.0	400.5	533.7	711.3	800.0	967.0	1301.0	1551.5	1580.6
120°	364.4	389.1	413.7	419.9	541.7	704.0	785.2	937.8	1243.0	1471.9	1500.2
122.5°	386.7	411.5	436.4	442.6	553.1	700.2	773.8	911.3	1186.1	1392.1	1420.0
125°	420.8	443.5	466.1	471.8	568.4	697.1	761.4	878.2	1111.6	1286.7	1312.4
127.5°	448.6	471.4	494.3	500.0	583.7	695.2	751.0	851.2	1051.7	1202.0	1223.7
130°	463.4	488.0	512.7	518.8	594.9	696.4	747.1	836.3	1014.7	1148.6	1168.6
132.5°	478.8	503.4	528.1	534.2	604.0	697.1	743.6	823.5	983.3	1103.1	1120.9
135°	501.5	524.0	546.4	552.0	613.9	696.4	737.7	804.6	938.4	1038.7	1054.2
137.5°	524.8	546.9	569.2	574.8	628.7	700.7	736.7	793.2	906.3	991.1	1003.7
140°	544.1	564.5	585.0	590.2	637.9	701.5	733.2	782.1	879.8	953.0	964.9
142.5°	558.9	577.8	596.8	601.5	645.4	703.9	733.2	776.1	861.9	926.3	936.4
145°	581.7	598.2	614.7	618.8	655.3	703.9	728.2	763.3	833.5	886.2	893.9
147.5°	604.5	620.6	636.6	640.6	669.8	708.7	728.2	755.9	811.1	852.5	858.9
150°	619.3	633.9	648.4	652.0	677.5	711.3	728.2	751.6	798.2	833.2	838.4
152.5°	634.7	645.7	656.7	659.5	682.4	712.9	728.2	748.1	788.0	817.8	821.8
155°	657.5	665.6	673.7	675.7	693.2	716.6	728.2	744.1	775.8	799.6	802.2
157.5°	674.3	682.2	690.1	692.1	704.1	720.2	728.2	740.6	765.2	783.7	785.5
160°	685.7	691.8	698.0	699.6	709.1	721.8	728.2	738.8	759.9	775.8	776.8
162.5°	697.1	701.7	706.3	707.5	714.4	723.6	728.2	737.1	755.0	768.4	769.4
165°	709.4	713.6	717.8	718.9	722.0	726.1	728.2	734.6	747.4	756.9	758.0
167.5°	720.9	722.8	724.8	725.3	727.9	731.5	733.2	737.4	745.7	752.0	752.5
170°	728.2	730.2	732.3	732.7	732.9	733.1	733.2	737.4	745.7	752.0	752.0
172.5°	732.3	732.6	733.1	733.2	733.2	733.2	733.2	736.5	743.1	748.0	747.6
175°	737.7	737.7	737.7	737.7	736.2	734.2	733.2	735.3	739.4	742.6	742.6
177.5°	737.7	737.7	737.7	737.7	736.6	734.9	734.2	735.8	739.1	741.6	741.1
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



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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°	18.8	18.8	18.8	18.8	18.8	25.1	33.4	37.6	32.3	21.8	13.9
92.5°	75.3	60.4	75.3	90.4	94.1	133.4	185.7	211.9	186.1	134.3	95.5
95°	262.7	217.3	262.7	308.0	319.4	419.4	552.7	619.3	523.0	330.6	186.2
97.5°	629.4	543.1	629.4	715.6	737.1	800.3	884.6	926.7	766.2	445.2	204.4
100°	906.8	804.0	906.8	1009.5	1035.2	1030.6	1024.4	1021.3	843.2	487.0	219.8
102.5°	1179.7	1091.7	1179.7	1267.7	1289.7	1209.2	1101.8	1048.1	867.5	506.1	235.1
105°	1527.6	1480.3	1527.6	1574.8	1586.7	1406.2	1165.5	1045.1	870.2	520.4	258.0
107.5°	1755.5	1766.9	1755.5	1744.0	1741.1	1489.4	1153.6	985.7	831.5	523.0	291.6
110°	1842.4	1891.6	1842.4	1793.1	1780.8	1499.3	1123.9	936.2	797.2	519.0	310.4



TEST NUMBER: P935636

CATALOG NUMBER: SQ4-FA-125U-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°	1850.1	1925.9	1850.1	1774.5	1755.6	1467.5	1083.3	891.2	767.2	519.1	333.1
115°	1801.1	1906.1	1801.1	1696.1	1669.9	1392.3	1022.2	837.1	732.7	524.0	367.4
117.5°	1697.1	1813.4	1697.1	1580.6	1551.5	1301.0	967.0	800.0	711.3	533.7	400.5
120°	1613.2	1726.3	1613.2	1500.2	1471.9	1243.0	937.8	785.2	704.0	541.7	419.9
122.5°	1531.5	1643.1	1531.5	1420.0	1392.1	1186.1	911.3	773.8	700.2	553.1	442.6
125°	1415.1	1517.9	1415.1	1312.4	1286.7	1111.6	878.2	761.4	697.1	568.4	471.8
127.5°	1310.4	1397.1	1310.4	1223.7	1202.0	1051.7	851.2	751.0	695.2	583.7	500.0
130°	1248.7	1328.8	1248.7	1168.6	1148.6	1014.7	836.3	747.1	696.4	594.9	518.8
132.5°	1192.7	1264.4	1192.7	1120.9	1103.1	983.3	823.5	743.6	697.1	604.0	534.2
135°	1116.0	1177.7	1116.0	1054.2	1038.7	938.4	804.6	737.7	696.4	613.9	552.0
137.5°	1054.4	1105.0	1054.4	1003.7	991.1	906.3	793.2	736.7	700.7	628.7	574.8
140°	1012.1	1059.5	1012.1	964.9	953.0	879.8	782.1	733.2	701.5	637.9	590.2
142.5°	977.1	1017.9	977.1	936.4	926.3	861.9	776.1	733.2	703.9	645.4	601.5
145°	924.7	955.5	924.7	893.9	886.2	833.5	763.3	728.2	703.9	655.3	618.8
147.5°	884.4	909.9	884.4	858.9	852.5	811.1	755.9	728.2	708.7	669.8	640.6
150°	859.1	879.8	859.1	838.4	833.2	798.2	751.6	728.2	711.3	677.5	652.0
152.5°	837.3	853.0	837.3	821.8	817.8	788.0	748.1	728.2	712.9	682.4	659.5
155°	812.5	822.8	812.5	802.2	799.6	775.8	744.1	728.2	716.6	693.2	675.7
157.5°	792.8	800.0	792.8	785.5	783.7	765.2	740.6	728.2	720.2	704.1	692.1
160°	781.0	785.2	781.0	776.8	775.8	759.9	738.8	728.2	721.8	709.1	699.6
162.5°	773.4	777.3	773.4	769.4	768.4	755.0	737.1	728.2	723.6	714.4	707.5
165°	762.2	766.4	762.2	758.0	756.9	747.4	734.6	728.2	726.1	722.0	718.9
167.5°	754.2	756.0	754.2	752.5	752.0	745.7	737.4	733.2	731.5	727.9	725.3
170°	752.0	752.0	752.0	752.0	752.0	745.7	737.4	733.2	733.1	732.9	732.7
172.5°	746.1	744.6	746.1	747.6	748.0	743.1	736.5	733.2	733.2	733.2	733.2
175°	742.6	742.6	742.6	742.6	742.6	739.4	735.3	733.2	734.2	736.2	737.7
177.5°	739.4	737.7	739.4	741.1	741.6	739.1	735.8	734.2	734.9	736.6	737.7
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



TEST NUMBER: P935636

CATALOG NUMBER: SQ4-FA-125U-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°	12.9	8.9	5.0	8.9	12.9	13.9	21.8	32.3	37.6	33.4	25.1
92.5°	87.1	53.5	19.8	53.5	87.1	95.5	134.3	186.1	211.9	185.7	133.4
95°	170.8	109.1	47.5	109.1	170.8	186.2	330.6	523.0	619.3	552.7	419.4
97.5°	190.9	136.4	82.1	136.4	190.9	204.4	445.2	766.2	926.7	884.6	800.3
100°	207.5	158.2	108.9	158.2	207.5	219.8	487.0	843.2	1021.3	1024.4	1030.6
102.5°	223.7	177.7	131.7	177.7	223.7	235.1	506.1	867.5	1048.1	1101.8	1209.2
105°	248.2	209.3	170.3	209.3	248.2	258.0	520.4	870.2	1045.1	1165.5	1406.2
107.5°	282.6	246.2	209.9	246.2	282.6	291.6	523.0	831.5	985.7	1153.6	1489.4
110°	302.2	269.5	236.7	269.5	302.2	310.4	519.0	797.2	936.2	1123.9	1499.3



TEST NUMBER: P935636

CATALOG NUMBER: SQ4-FA-125U-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°	325.3	294.1	262.9	294.1	325.3	333.1	519.1	767.2	891.2	1083.3	1467.5
115°	360.2	331.3	302.4	331.3	360.2	367.4	524.0	732.7	837.1	1022.2	1392.3
117.5°	394.0	367.8	341.6	367.8	394.0	400.5	533.7	711.3	800.0	967.0	1301.0
120°	413.7	389.1	364.4	389.1	413.7	419.9	541.7	704.0	785.2	937.8	1243.0
122.5°	436.4	411.5	386.7	411.5	436.4	442.6	553.1	700.2	773.8	911.3	1186.1
125°	466.1	443.5	420.8	443.5	466.1	471.8	568.4	697.1	761.4	878.2	1111.6
127.5°	494.3	471.4	448.6	471.4	494.3	500.0	583.7	695.2	751.0	851.2	1051.7
130°	512.7	488.0	463.4	488.0	512.7	518.8	594.9	696.4	747.1	836.3	1014.7
132.5°	528.1	503.4	478.8	503.4	528.1	534.2	604.0	697.1	743.6	823.5	983.3
135°	546.4	524.0	501.5	524.0	546.4	552.0	613.9	696.4	737.7	804.6	938.4
137.5°	569.2	546.9	524.8	546.9	569.2	574.8	628.7	700.7	736.7	793.2	906.3
140°	585.0	564.5	544.1	564.5	585.0	590.2	637.9	701.5	733.2	782.1	879.8
142.5°	596.8	577.8	558.9	577.8	596.8	601.5	645.4	703.9	733.2	776.1	861.9
145°	614.7	598.2	581.7	598.2	614.7	618.8	655.3	703.9	728.2	763.3	833.5
147.5°	636.6	620.6	604.5	620.6	636.6	640.6	669.8	708.7	728.2	755.9	811.1
150°	648.4	633.9	619.3	633.9	648.4	652.0	677.5	711.3	728.2	751.6	798.2
152.5°	656.7	645.7	634.7	645.7	656.7	659.5	682.4	712.9	728.2	748.1	788.0
155°	673.7	665.6	657.5	665.6	673.7	675.7	693.2	716.6	728.2	744.1	775.8
157.5°	690.1	682.2	674.3	682.2	690.1	692.1	704.1	720.2	728.2	740.6	765.2
160°	698.0	691.8	685.7	691.8	698.0	699.6	709.1	721.8	728.2	738.8	759.9
162.5°	706.3	701.7	697.1	701.7	706.3	707.5	714.4	723.6	728.2	737.1	755.0
165°	717.8	713.6	709.4	713.6	717.8	718.9	722.0	726.1	728.2	734.6	747.4
167.5°	724.8	722.8	720.9	722.8	724.8	725.3	727.9	731.5	733.2	737.4	745.7
170°	732.3	730.2	728.2	730.2	732.3	732.7	732.9	733.1	733.2	737.4	745.7
172.5°	733.1	732.6	732.3	732.6	733.1	733.2	733.2	733.2	733.2	736.5	743.1
175°	737.7	737.7	737.7	737.7	737.7	737.7	736.2	734.2	733.2	735.3	739.4
177.5°	737.7	737.7	737.7	737.7	737.7	737.7	736.6	734.9	734.2	735.8	739.1
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



TEST NUMBER: P935636

CATALOG NUMBER: SQ4-FA-125U-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°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.1	33.4	37.6	32.3
92.5°	94.1	90.4	75.3	60.4	75.3	90.4	94.1	133.4	185.7	211.9	186.1
95°	319.4	308.0	262.7	217.3	262.7	308.0	319.4	419.4	552.7	619.3	523.0
97.5°	737.1	715.6	629.4	543.1	629.4	715.6	737.1	800.3	884.6	926.7	766.2
100°	1035.2	1009.5	906.8	804.0	906.8	1009.5	1035.2	1030.6	1024.4	1021.3	843.2
102.5°	1289.7	1267.7	1179.7	1091.7	1179.7	1267.7	1289.7	1209.2	1101.8	1048.1	867.5
105°	1586.7	1574.8	1527.6	1480.3	1527.6	1574.8	1586.7	1406.2	1165.5	1045.1	870.2
107.5°	1741.1	1744.0	1755.5	1766.9	1755.5	1744.0	1741.1	1489.4	1153.6	985.7	831.5
110°	1780.8	1793.1	1842.4	1891.6	1842.4	1793.1	1780.8	1499.3	1123.9	936.2	797.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1755.6	1774.5	1850.1	1925.9	1850.1	1774.5	1755.6	1467.5	1083.3	891.2	767.2
115°	1669.9	1696.1	1801.1	1906.1	1801.1	1696.1	1669.9	1392.3	1022.2	837.1	732.7
117.5°	1551.5	1580.6	1697.1	1813.4	1697.1	1580.6	1551.5	1301.0	967.0	800.0	711.3
120°	1471.9	1500.2	1613.2	1726.3	1613.2	1500.2	1471.9	1243.0	937.8	785.2	704.0
122.5°	1392.1	1420.0	1531.5	1643.1	1531.5	1420.0	1392.1	1186.1	911.3	773.8	700.2
125°	1286.7	1312.4	1415.1	1517.9	1415.1	1312.4	1286.7	1111.6	878.2	761.4	697.1
127.5°	1202.0	1223.7	1310.4	1397.1	1310.4	1223.7	1202.0	1051.7	851.2	751.0	695.2
130°	1148.6	1168.6	1248.7	1328.8	1248.7	1168.6	1148.6	1014.7	836.3	747.1	696.4
132.5°	1103.1	1120.9	1192.7	1264.4	1192.7	1120.9	1103.1	983.3	823.5	743.6	697.1
135°	1038.7	1054.2	1116.0	1177.7	1116.0	1054.2	1038.7	938.4	804.6	737.7	696.4
137.5°	991.1	1003.7	1054.4	1105.0	1054.4	1003.7	991.1	906.3	793.2	736.7	700.7
140°	953.0	964.9	1012.1	1059.5	1012.1	964.9	953.0	879.8	782.1	733.2	701.5
142.5°	926.3	936.4	977.1	1017.9	977.1	936.4	926.3	861.9	776.1	733.2	703.9
145°	886.2	893.9	924.7	955.5	924.7	893.9	886.2	833.5	763.3	728.2	703.9
147.5°	852.5	858.9	884.4	909.9	884.4	858.9	852.5	811.1	755.9	728.2	708.7
150°	833.2	838.4	859.1	879.8	859.1	838.4	833.2	798.2	751.6	728.2	711.3
152.5°	817.8	821.8	837.3	853.0	837.3	821.8	817.8	788.0	748.1	728.2	712.9
155°	799.6	802.2	812.5	822.8	812.5	802.2	799.6	775.8	744.1	728.2	716.6
157.5°	783.7	785.5	792.8	800.0	792.8	785.5	783.7	765.2	740.6	728.2	720.2
160°	775.8	776.8	781.0	785.2	781.0	776.8	775.8	759.9	738.8	728.2	721.8
162.5°	768.4	769.4	773.4	777.3	773.4	769.4	768.4	755.0	737.1	728.2	723.6
165°	756.9	758.0	762.2	766.4	762.2	758.0	756.9	747.4	734.6	728.2	726.1
167.5°	752.0	752.5	754.2	756.0	754.2	752.5	752.0	745.7	737.4	733.2	731.5
170°	752.0	752.0	752.0	752.0	752.0	752.0	752.0	745.7	737.4	733.2	733.1
172.5°	748.0	747.6	746.1	744.6	746.1	747.6	748.0	743.1	736.5	733.2	733.2
175°	742.6	742.6	742.6	742.6	742.6	742.6	742.6	739.4	735.3	733.2	734.2
177.5°	741.6	741.1	739.4	737.7	739.4	741.1	741.6	739.1	735.8	734.2	734.9
180°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7



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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°	21.8	13.9	12.9	8.9	5.0
92.5°	134.3	95.5	87.1	53.5	19.8
95°	330.6	186.2	170.8	109.1	47.5
97.5°	445.2	204.4	190.9	136.4	82.1
100°	487.0	219.8	207.5	158.2	108.9
102.5°	506.1	235.1	223.7	177.7	131.7
105°	520.4	258.0	248.2	209.3	170.3
107.5°	523.0	291.6	282.6	246.2	209.9
110°	519.0	310.4	302.2	269.5	236.7



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CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	519.1	333.1	325.3	294.1	262.9
115°	524.0	367.4	360.2	331.3	302.4
117.5°	533.7	400.5	394.0	367.8	341.6
120°	541.7	419.9	413.7	389.1	364.4
122.5°	553.1	442.6	436.4	411.5	386.7
125°	568.4	471.8	466.1	443.5	420.8
127.5°	583.7	500.0	494.3	471.4	448.6
130°	594.9	518.8	512.7	488.0	463.4
132.5°	604.0	534.2	528.1	503.4	478.8
135°	613.9	552.0	546.4	524.0	501.5
137.5°	628.7	574.8	569.2	546.9	524.8
140°	637.9	590.2	585.0	564.5	544.1
142.5°	645.4	601.5	596.8	577.8	558.9
145°	655.3	618.8	614.7	598.2	581.7
147.5°	669.8	640.6	636.6	620.6	604.5
150°	677.5	652.0	648.4	633.9	619.3
152.5°	682.4	659.5	656.7	645.7	634.7
155°	693.2	675.7	673.7	665.6	657.5
157.5°	704.1	692.1	690.1	682.2	674.3
160°	709.1	699.6	698.0	691.8	685.7
162.5°	714.4	707.5	706.3	701.7	697.1
165°	722.0	718.9	717.8	713.6	709.4
167.5°	727.9	725.3	724.8	722.8	720.9
170°	732.9	732.7	732.3	730.2	728.2
172.5°	733.2	733.2	733.1	732.6	732.3
175°	736.2	737.7	737.7	737.7	737.7
177.5°	736.6	737.7	737.7	737.7	737.7
180°	737.7	737.7	737.7	737.7	737.7



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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	12.75	13.55	13.78	14.58	15.96	15.55	16.34	16.57	17.37	18.76
	3H	13.22	13.94	14.26	14.98	16.38	16.88	17.59	17.91	18.63	20.03
	4H	13.41	14.09	14.46	15.13	16.54	17.31	17.99	18.36	19.03	20.44
	6H	13.53	14.15	14.58	15.20	16.62	17.59	18.21	18.64	19.26	20.68
	8H	13.53	14.12	14.59	15.18	16.60	17.66	18.25	18.72	19.31	20.72
	12H	13.50	14.06	14.56	15.11	16.55	17.69	18.25	18.75	19.31	20.75
4H	2H	13.77	14.44	14.82	15.49	16.89	15.95	16.63	17.00	17.67	19.08
	3H	14.79	15.35	15.85	16.42	17.84	17.44	18.00	18.50	19.07	20.50
	4H	15.06	15.58	16.13	16.64	18.08	17.96	18.48	19.03	19.54	20.98
	6H	15.18	15.63	16.26	16.71	18.15	18.31	18.76	19.39	19.84	21.28
	8H	15.19	15.60	16.26	16.68	18.13	18.41	18.83	19.49	19.90	21.36
	12H	15.15	15.53	16.25	16.62	18.07	18.46	18.84	19.56	19.93	21.38
8H	4H	15.51	15.92	16.58	17.00	18.45	18.08	18.49	19.16	19.57	21.02
	6H	15.76	16.11	16.86	17.22	18.67	18.51	18.85	19.60	19.97	21.42
	8H	15.81	16.11	16.91	17.21	18.68	18.65	18.95	19.76	20.05	21.52
	12H	15.79	16.05	16.90	17.15	18.66	18.74	19.00	19.85	20.10	21.61
12H	4H	15.51	15.88	16.60	16.97	18.43	18.04	18.42	19.14	19.51	20.96
	6H	15.82	16.12	16.93	17.22	18.69	18.50	18.80	19.61	19.90	21.37
	8H	15.89	16.15	17.00	17.25	18.76	18.66	18.92	19.77	20.02	21.52