

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: P935660

Luminaire Tested: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

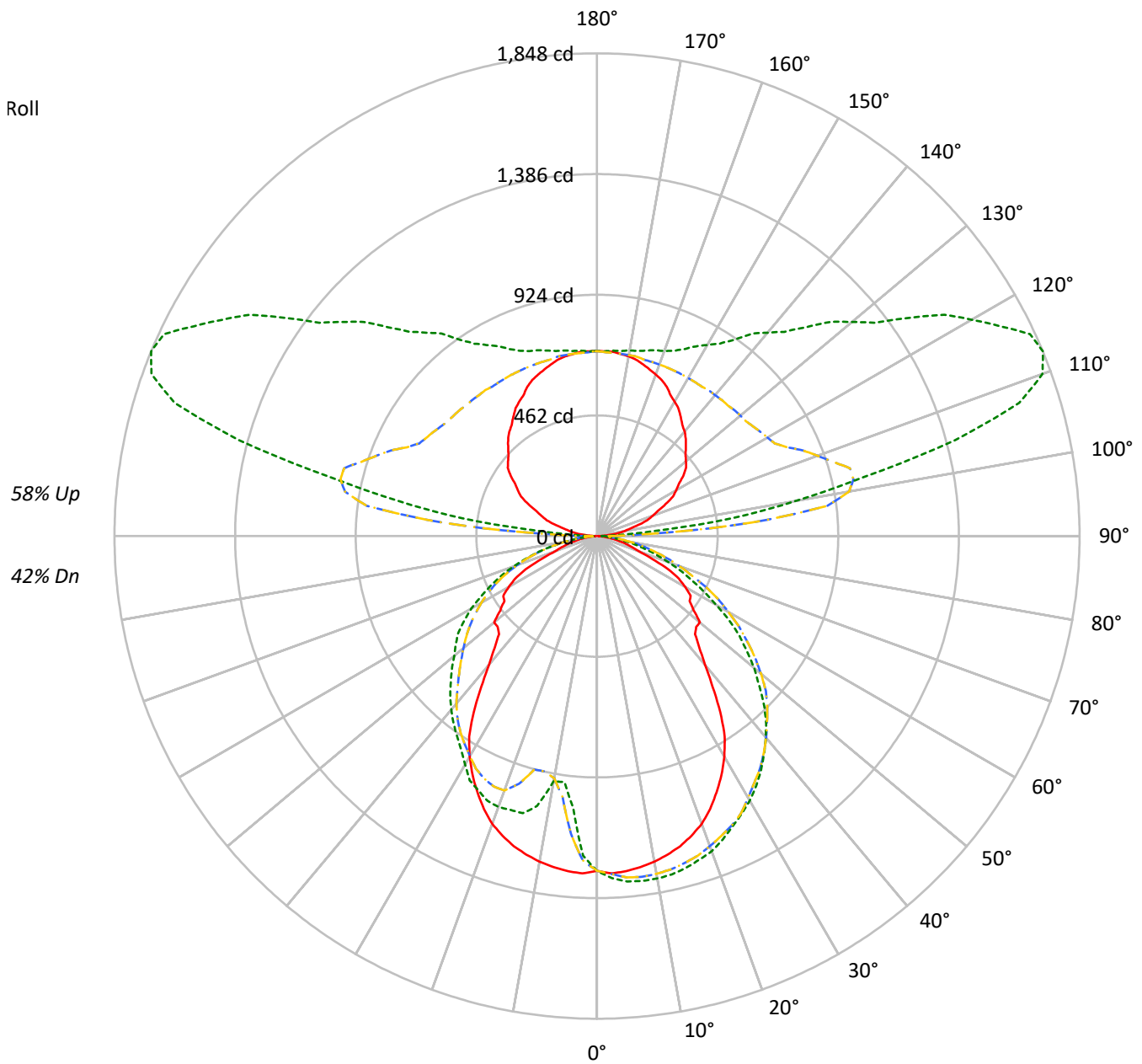
Test Method: LM-79-2019  
Report Number: P935660  
REPORT IS A COMBINATION OF REPORTS P933762 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7915.2 lumens  
Efficiency: N/A  
Efficacy: 122.9 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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### 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11892	11892	11892	11892
5°	11968	12005	11968	9440
10°	11875	11825	11875	8454
15°	11732	11569	11732	9660
20°	11473	11265	11473	9680
25°	10959	10822	10959	9476
30°	10297	10456	10297	9025
35°	9166	9991	9166	8531
40°	7625	9444	7625	8156
45°	6800	8803	6800	7726
50°	7207	8039	7207	7295
55°	6762	7216	6762	7045
60°	6945	6128	6945	6452
65°	6266	5065	6266	5664
70°	4311	4037	4311	4747
75°	3738	2983	3738	3574
80°	2948	1973	2948	2148
85°	1606	1045	1606	888

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.7	1.5
10°-20°	328.5	4.1
20°-30°	507.8	6.4
30°-40°	606.1	7.7
40°-50°	609.7	7.7
50°-60°	530.5	6.7
60°-70°	376.1	4.8
70°-80°	199.0	2.5
80°-90°	52.3	0.7
90°-100°	345.1	4.4
100°-110°	907.3	11.5
110°-120°	940.8	11.9
120°-130°	754.6	9.5
130°-140°	592.1	7.5
140°-150°	454.5	5.7
150°-160°	327.3	4.1
160°-170°	200.3	2.5
170°-180°	67.7	0.9
0°-30°	951.9	12.0
0°-40°	1558.1	19.7
0°-60°	2698.3	34.1
0°-90°	3325.7	42.0
90°-120°	2193.1	27.7
90°-150°	3994.3	50.5
90°-180°	4589.0	58.0
0°-180°	7915.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1282	1282	1282	1282	1282	
5°	1288	1328	1288	1044	1288	122
15°	1229	1316	1229	1098	1229	346
25°	1083	1227	1083	1074	1083	497
35°	823	1095	823	935	823	509
45°	531	902	531	792	531	425
55°	433	666	433	650	433	398
65°	301	401	301	449	301	287
75°	114	190	114	228	114	120
85°	19	48	19	41	19	26
90°	5	18	5	18	5	5
95°	46	209	46	209	46	51
105°	163	1421	163	1421	163	173
115°	290	1829	290	1829	290	287
125°	404	1457	404	1457	404	359
135°	481	1130	481	1130	481	372
145°	558	917	558	917	558	350
155°	631	790	631	790	631	290
165°	681	736	681	736	681	192
175°	708	713	708	713	708	67
180°	708	708	708	708	708	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1292.5	1292.5	1299.8	1302.2	1302.2	1298.5	1295.0	1298.5	1309.5	1313.1	1311.9
5°	1287.7	1297.3	1310.7	1313.1	1315.5	1314.3	1311.9	1314.3	1326.4	1328.9	1330.1
7.5°	1278.0	1296.2	1313.1	1316.8	1320.4	1316.8	1315.5	1318.0	1330.1	1332.5	1332.5
10°	1265.9	1291.3	1310.7	1313.1	1316.8	1313.1	1313.1	1318.0	1330.1	1332.5	1333.8
12.5°	1248.9	1284.0	1302.2	1304.7	1309.5	1308.3	1307.1	1311.9	1324.1	1326.4	1326.4
15°	1229.4	1270.7	1287.7	1290.1	1298.5	1296.2	1296.2	1301.0	1314.3	1318.0	1316.8
17.5°	1202.8	1253.8	1273.1	1276.8	1282.8	1281.6	1282.8	1287.7	1299.8	1302.2	1303.4
20°	1172.4	1230.7	1253.8	1257.3	1263.4	1263.4	1263.4	1269.4	1281.6	1286.4	1286.4
22.5°	1131.2	1206.4	1230.7	1233.1	1240.4	1240.4	1242.8	1251.3	1262.2	1263.4	1263.4
25°	1082.8	1179.8	1200.3	1207.7	1214.9	1218.5	1222.2	1227.0	1230.7	1229.4	1230.7
27.5°	1031.9	1145.8	1172.4	1177.3	1187.0	1190.7	1195.5	1196.8	1198.0	1201.5	1199.2
30°	974.9	1098.5	1138.5	1143.4	1159.1	1161.5	1156.8	1159.1	1165.2	1167.7	1170.1
32.5°	910.5	1028.2	1103.3	1114.3	1128.9	1121.5	1120.3	1124.0	1133.7	1133.7	1136.1
35°	823.3	973.7	1070.7	1080.3	1091.2	1082.8	1087.6	1088.8	1094.9	1098.5	1097.3
37.5°	727.5	926.3	1036.7	1044.0	1052.4	1041.5	1048.8	1052.4	1057.3	1054.9	1054.9
40°	642.7	852.4	996.7	1001.5	1008.8	1000.3	1007.5	1010.0	1012.4	1010.0	1008.8
42.5°	579.6	771.1	954.2	960.3	955.4	961.5	963.9	968.8	965.1	960.3	960.3
45°	531.1	749.3	908.2	915.4	908.2	917.9	921.5	921.5	910.5	908.2	907.0
47.5°	515.3	705.7	862.1	862.1	858.4	870.5	876.7	868.1	857.2	853.6	853.6
50°	514.1	657.2	799.0	794.2	811.2	825.7	819.7	811.2	802.7	789.3	789.3
52.5°	466.8	597.8	717.8	736.0	762.7	771.1	761.4	753.0	738.4	732.3	727.5
55°	432.9	535.9	643.9	680.2	708.1	719.0	700.8	692.3	670.5	666.9	664.4
57.5°	425.6	446.2	575.9	622.0	656.0	654.8	643.9	628.1	609.9	606.2	605.0
60°	390.4	322.5	503.2	557.8	592.9	589.3	579.6	565.0	548.0	545.7	543.2
62.5°	354.0	234.0	420.8	482.6	532.3	531.1	522.6	500.8	488.7	482.6	477.8
65°	300.7	196.4	299.4	401.3	472.9	475.3	457.1	441.3	428.0	420.8	419.5
67.5°	229.1	160.0	202.4	334.7	415.9	413.4	390.4	383.1	366.2	362.5	355.2
70°	169.8	106.7	140.7	271.6	360.1	354.0	335.9	327.3	311.6	303.1	298.3
72.5°	140.7	86.1	103.1	211.0	303.1	295.9	280.1	270.4	257.0	249.8	244.9
75°	114.0	90.9	78.8	156.4	246.1	241.3	226.8	217.0	206.1	196.4	197.7
77.5°	83.7	84.9	63.0	115.2	195.2	187.9	179.4	167.3	162.4	152.8	152.8
80°	63.0	66.7	47.3	78.8	140.7	140.7	133.3	124.9	116.4	111.6	111.6
82.5°	42.4	42.4	35.1	49.7	95.8	92.1	87.3	84.9	80.0	77.6	77.6
85°	19.4	24.2	21.8	30.3	52.1	54.6	54.6	52.1	50.9	48.5	49.7
87.5°	6.1	10.9	13.3	17.0	26.7	27.9	29.1	29.1	29.1	30.3	30.3
90°	4.8	8.5	12.4	13.3	20.9	31.0	36.1	32.0	24.0	18.1	18.1
92.5°	19.0	51.3	83.6	91.7	128.9	178.6	203.4	178.2	128.0	90.3	86.7
95°	45.6	104.7	163.9	178.7	317.2	502.0	594.4	530.4	402.5	306.5	295.6
97.5°	78.8	131.0	183.2	196.2	427.3	735.3	889.4	849.0	768.1	707.5	686.8
100°	104.5	151.9	199.1	211.0	467.4	809.2	980.2	983.1	989.1	993.5	968.8
102.5°	126.4	170.5	214.6	225.7	485.7	832.5	1005.9	1057.5	1160.5	1237.8	1216.7
105°	163.4	200.9	238.2	247.6	499.4	835.2	1003.0	1118.6	1349.6	1522.8	1511.4
107.5°	201.4	236.3	271.2	279.9	502.0	798.0	946.1	1107.2	1429.4	1671.0	1673.8
110°	227.1	258.6	290.0	297.9	498.1	765.1	898.5	1078.7	1438.9	1709.1	1721.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	252.3	282.3	312.2	319.7	498.2	736.3	855.3	1039.7	1408.4	1684.9	1703.1
115°	290.3	318.0	345.7	352.6	502.9	703.2	803.4	981.0	1336.3	1602.7	1627.8
117.5°	327.9	353.0	378.2	384.4	512.3	682.7	767.8	928.1	1248.6	1489.1	1516.9
120°	349.7	373.4	397.1	403.0	519.9	675.7	753.6	900.1	1192.9	1412.6	1439.8
122.5°	371.1	395.0	418.8	424.8	530.8	672.0	742.7	874.6	1138.3	1336.1	1362.9
125°	403.9	425.6	447.4	452.8	545.5	669.0	730.8	842.8	1066.8	1234.9	1259.5
127.5°	430.5	452.4	474.4	479.9	560.2	667.3	720.8	816.9	1009.4	1153.6	1174.5
130°	444.7	468.4	492.1	497.9	571.0	668.4	717.0	802.6	973.9	1102.3	1121.5
132.5°	459.5	483.2	506.8	512.7	579.7	669.0	713.7	790.3	943.7	1058.7	1075.8
135°	481.3	502.9	524.4	529.8	589.2	668.4	708.0	772.2	900.6	996.9	1011.8
137.5°	503.6	524.9	546.3	551.6	603.4	672.5	707.0	761.2	869.8	951.2	963.3
140°	522.2	541.8	561.4	566.4	612.2	673.2	703.7	750.6	844.4	914.7	926.0
142.5°	536.4	554.6	572.7	577.3	619.4	675.6	703.7	744.9	827.2	889.0	898.7
145°	558.3	574.1	590.0	593.9	628.9	675.6	698.9	732.6	800.0	850.5	858.0
147.5°	580.2	595.6	611.0	614.9	642.8	680.2	698.9	725.4	778.5	818.2	824.4
150°	594.4	608.3	622.3	625.8	650.2	682.7	698.9	721.3	766.1	799.7	804.6
152.5°	609.2	619.7	630.3	632.9	655.0	684.2	698.9	718.0	756.3	784.9	788.7
155°	631.0	638.8	646.6	648.5	665.3	687.7	698.9	714.2	744.5	767.4	769.9
157.5°	647.2	654.8	662.3	664.2	675.8	691.2	698.9	710.8	734.4	752.1	753.9
160°	658.1	664.0	669.9	671.4	680.6	692.8	698.9	709.0	729.3	744.5	745.5
162.5°	669.0	673.4	677.9	679.0	685.6	694.5	698.9	707.5	724.6	737.5	738.4
165°	680.8	684.9	688.9	689.9	693.0	696.9	698.9	705.1	717.3	726.4	727.5
167.5°	691.9	693.7	695.6	696.1	698.6	702.0	703.7	707.7	715.7	721.8	722.2
170°	698.9	700.8	702.8	703.2	703.4	703.6	703.7	707.7	715.7	721.8	721.8
172.5°	702.8	703.1	703.6	703.7	703.7	703.7	703.7	706.8	713.1	717.9	717.5
175°	708.0	708.0	708.0	708.0	706.5	704.6	703.7	705.7	709.7	712.7	712.7
177.5°	708.0	708.0	708.0	708.0	706.9	705.3	704.6	706.2	709.4	711.8	711.3
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1314.3	1310.7	1314.3	1311.9	1313.1	1309.5	1298.5	1295.0	1298.5	1302.2	1302.2
5°	1330.1	1327.7	1330.1	1330.1	1328.9	1326.4	1314.3	1311.9	1314.3	1315.5	1313.1
7.5°	1335.0	1331.3	1335.0	1332.5	1332.5	1330.1	1318.0	1315.5	1316.8	1320.4	1316.8
10°	1335.0	1331.3	1335.0	1333.8	1332.5	1330.1	1318.0	1313.1	1313.1	1316.8	1313.1
12.5°	1328.9	1326.4	1328.9	1326.4	1326.4	1324.1	1311.9	1307.1	1308.3	1309.5	1304.7
15°	1319.2	1315.5	1319.2	1316.8	1318.0	1314.3	1301.0	1296.2	1296.2	1298.5	1290.1
17.5°	1304.7	1299.8	1304.7	1303.4	1302.2	1299.8	1287.7	1282.8	1281.6	1282.8	1276.8
20°	1287.7	1284.0	1287.7	1286.4	1286.4	1281.6	1269.4	1263.4	1263.4	1263.4	1257.3
22.5°	1261.0	1257.3	1261.0	1263.4	1263.4	1262.2	1251.3	1242.8	1240.4	1240.4	1233.1
25°	1230.7	1227.0	1230.7	1230.7	1229.4	1230.7	1227.0	1222.2	1218.5	1214.9	1207.7
27.5°	1201.5	1199.2	1201.5	1199.2	1201.5	1198.0	1196.8	1195.5	1190.7	1187.0	1177.3
30°	1172.4	1170.1	1172.4	1170.1	1167.7	1165.2	1159.1	1156.8	1161.5	1159.1	1143.4
32.5°	1136.1	1133.7	1136.1	1136.1	1133.7	1133.7	1124.0	1120.3	1121.5	1128.9	1114.3
35°	1098.5	1094.9	1098.5	1097.3	1098.5	1094.9	1088.8	1087.6	1082.8	1091.2	1080.3
37.5°	1054.9	1051.2	1054.9	1054.9	1054.9	1057.3	1052.4	1048.8	1041.5	1052.4	1044.0
40°	1010.0	1005.2	1010.0	1008.8	1010.0	1012.4	1010.0	1007.5	1000.3	1008.8	1001.5
42.5°	959.1	957.9	959.1	960.3	960.3	965.1	968.8	963.9	961.5	955.4	960.3
45°	904.5	902.1	904.5	907.0	908.2	910.5	921.5	921.5	917.9	908.2	915.4
47.5°	846.3	840.2	846.3	853.6	853.6	857.2	868.1	876.7	870.5	858.4	862.1
50°	784.4	785.7	784.4	789.3	789.3	802.7	811.2	819.7	825.7	811.2	794.2
52.5°	723.9	722.7	723.9	727.5	732.3	738.4	753.0	761.4	771.1	762.7	736.0
55°	663.2	665.7	663.2	664.4	666.9	670.5	692.3	700.8	719.0	708.1	680.2
57.5°	602.7	599.0	602.7	605.0	606.2	609.9	628.1	643.9	654.8	656.0	622.0
60°	532.3	527.4	532.3	543.2	545.7	548.0	565.0	579.6	589.3	592.9	557.8
62.5°	470.4	462.0	470.4	477.8	482.6	488.7	500.8	522.6	531.1	532.3	482.6
65°	405.0	401.3	405.0	419.5	420.8	428.0	441.3	457.1	475.3	472.9	401.3
67.5°	345.6	345.6	345.6	355.2	362.5	366.2	383.1	390.4	413.4	415.9	334.7
70°	291.0	289.8	291.0	298.3	303.1	311.6	327.3	335.9	354.0	360.1	271.6
72.5°	238.9	237.7	238.9	244.9	249.8	257.0	270.4	280.1	295.9	303.1	211.0
75°	192.8	190.3	192.8	197.7	196.4	206.1	217.0	226.8	241.3	246.1	156.4
77.5°	147.9	147.9	147.9	152.8	152.8	162.4	167.3	179.4	187.9	195.2	115.2
80°	110.3	109.1	110.3	111.6	111.6	116.4	124.9	133.3	140.7	140.7	78.8
82.5°	77.6	75.2	77.6	77.6	77.6	80.0	84.9	87.3	92.1	95.8	49.7
85°	48.5	48.5	48.5	49.7	48.5	50.9	52.1	54.6	54.6	52.1	30.3
87.5°	31.6	30.3	31.6	30.3	30.3	29.1	29.1	29.1	27.9	26.7	17.0
90°	18.1	18.1	18.1	18.1	18.1	24.0	32.0	36.1	31.0	20.9	13.3
92.5°	72.3	58.0	72.3	86.7	90.3	128.0	178.2	203.4	178.6	128.9	91.7
95°	252.1	208.6	252.1	295.6	306.5	402.5	530.4	594.4	502.0	317.2	178.7
97.5°	604.0	521.3	604.0	686.8	707.5	768.1	849.0	889.4	735.3	427.3	196.2
100°	870.3	771.6	870.3	968.8	993.5	989.1	983.1	980.2	809.2	467.4	211.0
102.5°	1132.2	1047.7	1132.2	1216.7	1237.8	1160.5	1057.5	1005.9	832.5	485.7	225.7
105°	1466.1	1420.7	1466.1	1511.4	1522.8	1349.6	1118.6	1003.0	835.2	499.4	247.6
107.5°	1684.8	1695.8	1684.8	1673.8	1671.0	1429.4	1107.2	946.1	798.0	502.0	279.9
110°	1768.2	1815.5	1768.2	1721.0	1709.1	1438.9	1078.7	898.5	765.1	498.1	297.9





TEST NUMBER: P935660

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1775.6	1848.3	1775.6	1703.1	1684.9	1408.4	1039.7	855.3	736.3	498.2	319.7
115°	1728.6	1829.3	1728.6	1627.8	1602.7	1336.3	981.0	803.4	703.2	502.9	352.6
117.5°	1628.7	1740.4	1628.7	1516.9	1489.1	1248.6	928.1	767.8	682.7	512.3	384.4
120°	1548.2	1656.8	1548.2	1439.8	1412.6	1192.9	900.1	753.6	675.7	519.9	403.0
122.5°	1469.9	1577.0	1469.9	1362.9	1336.1	1138.3	874.6	742.7	672.0	530.8	424.8
125°	1358.1	1456.7	1358.1	1259.5	1234.9	1066.8	842.8	730.8	669.0	545.5	452.8
127.5°	1257.6	1340.8	1257.6	1174.5	1153.6	1009.4	816.9	720.8	667.3	560.2	479.9
130°	1198.4	1275.3	1198.4	1121.5	1102.3	973.9	802.6	717.0	668.4	571.0	497.9
132.5°	1144.6	1213.5	1144.6	1075.8	1058.7	943.7	790.3	713.7	669.0	579.7	512.7
135°	1071.0	1130.3	1071.0	1011.8	996.9	900.6	772.2	708.0	668.4	589.2	529.8
137.5°	1011.9	1060.5	1011.9	963.3	951.2	869.8	761.2	707.0	672.5	603.4	551.6
140°	971.4	1016.8	971.4	926.0	914.7	844.4	750.6	703.7	673.2	612.2	566.4
142.5°	937.8	976.9	937.8	898.7	889.0	827.2	744.9	703.7	675.6	619.4	577.3
145°	887.5	917.1	887.5	858.0	850.5	800.0	732.6	698.9	675.6	628.9	593.9
147.5°	848.8	873.3	848.8	824.4	818.2	778.5	725.4	698.9	680.2	642.8	614.9
150°	824.5	844.4	824.5	804.6	799.7	766.1	721.3	698.9	682.7	650.2	625.8
152.5°	803.6	818.7	803.6	788.7	784.9	756.3	718.0	698.9	684.2	655.0	632.9
155°	779.8	789.7	779.8	769.9	767.4	744.5	714.2	698.9	687.7	665.3	648.5
157.5°	760.9	767.8	760.9	753.9	752.1	734.4	710.8	698.9	691.2	675.8	664.2
160°	749.6	753.6	749.6	745.5	744.5	729.3	709.0	698.9	692.8	680.6	671.4
162.5°	742.2	746.0	742.2	738.4	737.5	724.6	707.5	698.9	694.5	685.6	679.0
165°	731.5	735.5	731.5	727.5	726.4	717.3	705.1	698.9	696.9	693.0	689.9
167.5°	723.9	725.5	723.9	722.2	721.8	715.7	707.7	703.7	702.0	698.6	696.1
170°	721.8	721.8	721.8	721.8	721.8	715.7	707.7	703.7	703.6	703.4	703.2
172.5°	716.1	714.6	716.1	717.5	717.9	713.1	706.8	703.7	703.7	703.7	703.7
175°	712.7	712.7	712.7	712.7	712.7	709.7	705.7	703.7	704.6	706.5	708.0
177.5°	709.7	708.0	709.7	711.3	711.8	709.4	706.2	704.6	705.3	706.9	708.0
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



TEST NUMBER: P935660

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1299.8	1292.5	1292.5	1280.4	1275.5	1271.9	1265.9	1247.7	1242.8	1238.0	1245.2
5°	1310.7	1297.3	1287.7	1265.9	1247.7	1240.4	1217.3	1173.7	1144.5	1122.8	1110.7
7.5°	1313.1	1296.2	1278.0	1244.0	1200.3	1181.0	1110.7	1030.7	1008.8	989.4	977.3
10°	1310.7	1291.3	1265.9	1214.9	1111.9	1077.9	1007.5	955.4	942.1	938.4	942.1
12.5°	1302.2	1284.0	1248.9	1164.0	1019.7	996.7	955.4	925.1	922.7	928.8	961.5
15°	1287.7	1270.7	1229.4	1096.1	968.8	951.8	922.7	911.8	925.1	967.5	1065.8
17.5°	1273.1	1253.8	1202.8	1029.4	930.0	917.9	897.2	919.1	994.2	1051.2	1084.0
20°	1253.8	1230.7	1172.4	980.9	902.1	891.2	881.4	979.7	1036.7	1057.3	1075.4
22.5°	1230.7	1206.4	1131.2	947.0	873.0	864.5	870.5	1013.7	1036.7	1051.2	1067.0
25°	1200.3	1179.8	1082.8	920.3	850.0	840.2	863.3	1010.0	1023.3	1027.0	1058.5
27.5°	1172.4	1145.8	1031.9	896.0	822.1	818.4	869.3	994.2	1004.0	1007.5	1041.5
30°	1138.5	1098.5	974.9	870.5	793.0	791.8	870.5	974.9	972.4	982.1	1016.1
32.5°	1103.3	1028.2	910.5	839.0	765.1	763.9	862.1	945.8	943.3	956.7	982.1
35°	1070.7	973.7	823.3	802.7	729.9	731.1	841.4	911.8	913.0	925.1	940.9
37.5°	1036.7	926.3	727.5	762.7	696.0	696.0	813.5	880.3	877.9	881.4	903.3
40°	996.7	852.4	642.7	710.5	664.4	660.8	779.7	846.3	837.9	836.7	866.9
42.5°	954.2	771.1	579.6	641.4	628.1	623.2	738.4	805.1	789.3	793.0	831.8
45°	908.2	749.3	531.1	542.0	590.4	586.9	693.5	757.8	746.9	756.6	796.7
47.5°	862.1	705.7	515.3	449.9	550.4	549.2	643.9	711.8	705.7	715.3	757.8
50°	799.0	657.2	514.1	385.6	505.6	510.4	584.4	666.9	666.9	675.3	720.2
52.5°	717.8	597.8	466.8	349.2	453.4	468.0	532.3	628.1	630.5	639.0	679.0
55°	643.9	535.9	432.9	321.3	391.7	423.1	481.3	588.1	592.9	601.4	637.8
57.5°	575.9	446.2	425.6	288.6	334.7	365.0	436.5	549.2	551.7	559.0	594.1
60°	503.2	322.5	390.4	253.4	284.9	308.0	395.3	503.2	511.7	516.5	546.9
62.5°	420.8	234.0	354.0	229.1	260.7	265.6	361.3	459.5	470.4	474.1	492.3
65°	299.4	196.4	300.7	208.6	235.2	236.4	325.0	414.7	424.3	430.4	443.8
67.5°	202.4	160.0	229.1	189.1	215.8	217.0	289.8	362.5	375.9	380.8	389.2
70°	140.7	106.7	169.8	168.6	194.0	196.4	252.2	315.2	327.3	331.0	335.9
72.5°	103.1	86.1	140.7	151.6	171.0	173.4	213.4	261.9	274.0	277.7	280.1
75°	78.8	90.9	114.0	132.1	145.5	146.7	174.6	213.4	221.9	224.3	225.5
77.5°	63.0	84.9	83.7	106.7	118.8	116.4	137.0	164.9	172.2	172.2	172.2
80°	47.3	66.7	63.0	76.4	87.3	84.9	98.2	117.6	120.0	122.4	121.2
82.5°	35.1	42.4	42.4	48.5	58.2	55.8	65.4	76.4	76.4	76.4	78.8
85°	21.8	24.2	19.4	25.4	32.8	31.6	36.3	41.2	42.4	42.4	40.0
87.5°	13.3	10.9	6.1	9.7	14.6	14.6	17.0	18.2	17.0	17.0	17.0
90°	12.4	8.5	4.8	8.5	12.4	13.3	20.9	31.0	36.1	32.0	24.0
92.5°	83.6	51.3	19.0	51.3	83.6	91.7	128.9	178.6	203.4	178.2	128.0
95°	163.9	104.7	45.6	104.7	163.9	178.7	317.2	502.0	594.4	530.4	402.5
97.5°	183.2	131.0	78.8	131.0	183.2	196.2	427.3	735.3	889.4	849.0	768.1
100°	199.1	151.9	104.5	151.9	199.1	211.0	467.4	809.2	980.2	983.1	989.1
102.5°	214.6	170.5	126.4	170.5	214.6	225.7	485.7	832.5	1005.9	1057.5	1160.5
105°	238.2	200.9	163.4	200.9	238.2	247.6	499.4	835.2	1003.0	1118.6	1349.6
107.5°	271.2	236.3	201.4	236.3	271.2	279.9	502.0	798.0	946.1	1107.2	1429.4
110°	290.0	258.6	227.1	258.6	290.0	297.9	498.1	765.1	898.5	1078.7	1438.9



TEST NUMBER: P935660

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	312.2	282.3	252.3	282.3	312.2	319.7	498.2	736.3	855.3	1039.7	1408.4
115°	345.7	318.0	290.3	318.0	345.7	352.6	502.9	703.2	803.4	981.0	1336.3
117.5°	378.2	353.0	327.9	353.0	378.2	384.4	512.3	682.7	767.8	928.1	1248.6
120°	397.1	373.4	349.7	373.4	397.1	403.0	519.9	675.7	753.6	900.1	1192.9
122.5°	418.8	395.0	371.1	395.0	418.8	424.8	530.8	672.0	742.7	874.6	1138.3
125°	447.4	425.6	403.9	425.6	447.4	452.8	545.5	669.0	730.8	842.8	1066.8
127.5°	474.4	452.4	430.5	452.4	474.4	479.9	560.2	667.3	720.8	816.9	1009.4
130°	492.1	468.4	444.7	468.4	492.1	497.9	571.0	668.4	717.0	802.6	973.9
132.5°	506.8	483.2	459.5	483.2	506.8	512.7	579.7	669.0	713.7	790.3	943.7
135°	524.4	502.9	481.3	502.9	524.4	529.8	589.2	668.4	708.0	772.2	900.6
137.5°	546.3	524.9	503.6	524.9	546.3	551.6	603.4	672.5	707.0	761.2	869.8
140°	561.4	541.8	522.2	541.8	561.4	566.4	612.2	673.2	703.7	750.6	844.4
142.5°	572.7	554.6	536.4	554.6	572.7	577.3	619.4	675.6	703.7	744.9	827.2
145°	590.0	574.1	558.3	574.1	590.0	593.9	628.9	675.6	698.9	732.6	800.0
147.5°	611.0	595.6	580.2	595.6	611.0	614.9	642.8	680.2	698.9	725.4	778.5
150°	622.3	608.3	594.4	608.3	622.3	625.8	650.2	682.7	698.9	721.3	766.1
152.5°	630.3	619.7	609.2	619.7	630.3	632.9	655.0	684.2	698.9	718.0	756.3
155°	646.6	638.8	631.0	638.8	646.6	648.5	665.3	687.7	698.9	714.2	744.5
157.5°	662.3	654.8	647.2	654.8	662.3	664.2	675.8	691.2	698.9	710.8	734.4
160°	669.9	664.0	658.1	664.0	669.9	671.4	680.6	692.8	698.9	709.0	729.3
162.5°	677.9	673.4	669.0	673.4	677.9	679.0	685.6	694.5	698.9	707.5	724.6
165°	688.9	684.9	680.8	684.9	688.9	689.9	693.0	696.9	698.9	705.1	717.3
167.5°	695.6	693.7	691.9	693.7	695.6	696.1	698.6	702.0	703.7	707.7	715.7
170°	702.8	700.8	698.9	700.8	702.8	703.2	703.4	703.6	703.7	707.7	715.7
172.5°	703.6	703.1	702.8	703.1	703.6	703.7	703.7	703.7	703.7	706.8	713.1
175°	708.0	708.0	708.0	708.0	708.0	708.0	706.5	704.6	703.7	705.7	709.7
177.5°	708.0	708.0	708.0	708.0	708.0	708.0	706.9	705.3	704.6	706.2	709.4
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



TEST NUMBER: P935660

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1236.8	1233.1	1238.0	1224.6	1238.0	1233.1	1236.8	1245.2	1238.0	1242.8	1247.7
5°	1085.2	1079.1	1059.8	1044.0	1059.8	1079.1	1085.2	1110.7	1122.8	1144.5	1173.7
7.5°	970.0	965.1	960.3	950.5	960.3	965.1	970.0	977.3	989.4	1008.8	1030.7
10°	944.5	945.8	953.0	951.8	953.0	945.8	944.5	942.1	938.4	942.1	955.4
12.5°	1010.0	1020.9	1060.9	1058.5	1060.9	1020.9	1010.0	961.5	928.8	922.7	925.1
15°	1085.2	1088.8	1097.3	1098.5	1097.3	1088.8	1085.2	1065.8	967.5	925.1	911.8
17.5°	1092.4	1093.7	1099.8	1099.8	1099.8	1093.7	1092.4	1084.0	1051.2	994.2	919.1
20°	1086.4	1088.8	1101.0	1103.3	1101.0	1088.8	1086.4	1075.4	1057.3	1036.7	979.7
22.5°	1084.0	1088.8	1098.5	1097.3	1098.5	1088.8	1084.0	1067.0	1051.2	1036.7	1013.7
25°	1071.9	1071.9	1073.1	1074.3	1073.1	1071.9	1071.9	1058.5	1027.0	1023.3	1010.0
27.5°	1046.4	1048.8	1056.1	1054.9	1056.1	1048.8	1046.4	1041.5	1007.5	1004.0	994.2
30°	1023.3	1020.9	1014.9	1010.0	1014.9	1020.9	1023.3	1016.1	982.1	972.4	974.9
32.5°	984.5	978.4	972.4	968.8	972.4	978.4	984.5	982.1	956.7	943.3	945.8
35°	938.4	939.7	938.4	934.9	938.4	939.7	938.4	940.9	925.1	913.0	911.8
37.5°	905.8	908.2	907.0	902.1	907.0	908.2	905.8	903.3	881.4	877.9	880.3
40°	871.8	873.0	871.8	868.1	871.8	873.0	871.8	866.9	836.7	837.9	846.3
42.5°	839.0	837.9	834.2	831.8	834.2	837.9	839.0	831.8	793.0	789.3	805.1
45°	801.4	802.7	795.4	791.8	795.4	802.7	801.4	796.7	756.6	746.9	757.8
47.5°	763.9	763.9	757.8	754.2	757.8	763.9	763.9	757.8	715.3	705.7	711.8
50°	723.9	722.7	714.2	713.0	714.2	722.7	723.9	720.2	675.3	666.9	666.9
52.5°	677.8	677.8	679.0	681.4	679.0	677.8	677.8	679.0	639.0	630.5	628.1
55°	637.8	639.0	647.4	649.9	647.4	639.0	637.8	637.8	601.4	592.9	588.1
57.5°	596.5	596.5	602.7	602.7	602.7	596.5	596.5	594.1	559.0	551.7	549.2
60°	549.2	551.7	556.5	555.3	556.5	551.7	549.2	546.9	516.5	511.7	503.2
62.5°	499.5	502.0	503.2	500.8	503.2	502.0	499.5	492.3	474.1	470.4	459.5
65°	447.4	449.9	451.0	448.7	451.0	449.9	447.4	443.8	430.4	424.3	414.7
67.5°	394.1	392.9	391.7	396.4	391.7	392.9	394.1	389.2	380.8	375.9	362.5
70°	339.5	339.5	338.3	340.7	338.3	339.5	339.5	335.9	331.0	327.3	315.2
72.5°	281.3	280.1	284.9	281.3	284.9	280.1	281.3	280.1	277.7	274.0	261.9
75°	224.3	226.8	224.3	228.0	224.3	226.8	224.3	225.5	224.3	221.9	213.4
77.5°	171.0	173.4	171.0	171.0	171.0	173.4	171.0	172.2	172.2	172.2	164.9
80°	121.2	120.0	120.0	118.8	120.0	120.0	121.2	121.2	122.4	120.0	117.6
82.5°	77.6	76.4	76.4	78.8	76.4	76.4	77.6	78.8	76.4	76.4	76.4
85°	42.4	43.7	41.2	41.2	41.2	43.7	42.4	40.0	42.4	42.4	41.2
87.5°	15.8	14.6	14.6	14.6	14.6	14.6	15.8	17.0	17.0	17.0	18.2
90°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	24.0	32.0	36.1	31.0
92.5°	90.3	86.7	72.3	58.0	72.3	86.7	90.3	128.0	178.2	203.4	178.6
95°	306.5	295.6	252.1	208.6	252.1	295.6	306.5	402.5	530.4	594.4	502.0
97.5°	707.5	686.8	604.0	521.3	604.0	686.8	707.5	768.1	849.0	889.4	735.3
100°	993.5	968.8	870.3	771.6	870.3	968.8	993.5	989.1	983.1	980.2	809.2
102.5°	1237.8	1216.7	1132.2	1047.7	1132.2	1216.7	1237.8	1160.5	1057.5	1005.9	832.5
105°	1522.8	1511.4	1466.1	1420.7	1466.1	1511.4	1522.8	1349.6	1118.6	1003.0	835.2
107.5°	1671.0	1673.8	1684.8	1695.8	1684.8	1673.8	1671.0	1429.4	1107.2	946.1	798.0
110°	1709.1	1721.0	1768.2	1815.5	1768.2	1721.0	1709.1	1438.9	1078.7	898.5	765.1



TEST NUMBER: P935660

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1684.9	1703.1	1775.6	1848.3	1775.6	1703.1	1684.9	1408.4	1039.7	855.3	736.3
115°	1602.7	1627.8	1728.6	1829.3	1728.6	1627.8	1602.7	1336.3	981.0	803.4	703.2
117.5°	1489.1	1516.9	1628.7	1740.4	1628.7	1516.9	1489.1	1248.6	928.1	767.8	682.7
120°	1412.6	1439.8	1548.2	1656.8	1548.2	1439.8	1412.6	1192.9	900.1	753.6	675.7
122.5°	1336.1	1362.9	1469.9	1577.0	1469.9	1362.9	1336.1	1138.3	874.6	742.7	672.0
125°	1234.9	1259.5	1358.1	1456.7	1358.1	1259.5	1234.9	1066.8	842.8	730.8	669.0
127.5°	1153.6	1174.5	1257.6	1340.8	1257.6	1174.5	1153.6	1009.4	816.9	720.8	667.3
130°	1102.3	1121.5	1198.4	1275.3	1198.4	1121.5	1102.3	973.9	802.6	717.0	668.4
132.5°	1058.7	1075.8	1144.6	1213.5	1144.6	1075.8	1058.7	943.7	790.3	713.7	669.0
135°	996.9	1011.8	1071.0	1130.3	1071.0	1011.8	996.9	900.6	772.2	708.0	668.4
137.5°	951.2	963.3	1011.9	1060.5	1011.9	963.3	951.2	869.8	761.2	707.0	672.5
140°	914.7	926.0	971.4	1016.8	971.4	926.0	914.7	844.4	750.6	703.7	673.2
142.5°	889.0	898.7	937.8	976.9	937.8	898.7	889.0	827.2	744.9	703.7	675.6
145°	850.5	858.0	887.5	917.1	887.5	858.0	850.5	800.0	732.6	698.9	675.6
147.5°	818.2	824.4	848.8	873.3	848.8	824.4	818.2	778.5	725.4	698.9	680.2
150°	799.7	804.6	824.5	844.4	824.5	804.6	799.7	766.1	721.3	698.9	682.7
152.5°	784.9	788.7	803.6	818.7	803.6	788.7	784.9	756.3	718.0	698.9	684.2
155°	767.4	769.9	779.8	789.7	779.8	769.9	767.4	744.5	714.2	698.9	687.7
157.5°	752.1	753.9	760.9	767.8	760.9	753.9	752.1	734.4	710.8	698.9	691.2
160°	744.5	745.5	749.6	753.6	749.6	745.5	744.5	729.3	709.0	698.9	692.8
162.5°	737.5	738.4	742.2	746.0	742.2	738.4	737.5	724.6	707.5	698.9	694.5
165°	726.4	727.5	731.5	735.5	731.5	727.5	726.4	717.3	705.1	698.9	696.9
167.5°	721.8	722.2	723.9	725.5	723.9	722.2	721.8	715.7	707.7	703.7	702.0
170°	721.8	721.8	721.8	721.8	721.8	721.8	721.8	715.7	707.7	703.7	703.6
172.5°	717.9	717.5	716.1	714.6	716.1	717.5	717.9	713.1	706.8	703.7	703.7
175°	712.7	712.7	712.7	712.7	712.7	712.7	712.7	709.7	705.7	703.7	704.6
177.5°	711.8	711.3	709.7	708.0	709.7	711.3	711.8	709.4	706.2	704.6	705.3
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1265.9	1271.9	1275.5	1280.4	1292.5
5°	1217.3	1240.4	1247.7	1265.9	1287.7
7.5°	1110.7	1181.0	1200.3	1244.0	1278.0
10°	1007.5	1077.9	1111.9	1214.9	1265.9
12.5°	955.4	996.7	1019.7	1164.0	1248.9
15°	922.7	951.8	968.8	1096.1	1229.4
17.5°	897.2	917.9	930.0	1029.4	1202.8
20°	881.4	891.2	902.1	980.9	1172.4
22.5°	870.5	864.5	873.0	947.0	1131.2
25°	863.3	840.2	850.0	920.3	1082.8
27.5°	869.3	818.4	822.1	896.0	1031.9
30°	870.5	791.8	793.0	870.5	974.9
32.5°	862.1	763.9	765.1	839.0	910.5
35°	841.4	731.1	729.9	802.7	823.3
37.5°	813.5	696.0	696.0	762.7	727.5
40°	779.7	660.8	664.4	710.5	642.7
42.5°	738.4	623.2	628.1	641.4	579.6
45°	693.5	586.9	590.4	542.0	531.1
47.5°	643.9	549.2	550.4	449.9	515.3
50°	584.4	510.4	505.6	385.6	514.1
52.5°	532.3	468.0	453.4	349.2	466.8
55°	481.3	423.1	391.7	321.3	432.9
57.5°	436.5	365.0	334.7	288.6	425.6
60°	395.3	308.0	284.9	253.4	390.4
62.5°	361.3	265.6	260.7	229.1	354.0
65°	325.0	236.4	235.2	208.6	300.7
67.5°	289.8	217.0	215.8	189.1	229.1
70°	252.2	196.4	194.0	168.6	169.8
72.5°	213.4	173.4	171.0	151.6	140.7
75°	174.6	146.7	145.5	132.1	114.0
77.5°	137.0	116.4	118.8	106.7	83.7
80°	98.2	84.9	87.3	76.4	63.0
82.5°	65.4	55.8	58.2	48.5	42.4
85°	36.3	31.6	32.8	25.4	19.4
87.5°	17.0	14.6	14.6	9.7	6.1
90°	20.9	13.3	12.4	8.5	4.8
92.5°	128.9	91.7	83.6	51.3	19.0
95°	317.2	178.7	163.9	104.7	45.6
97.5°	427.3	196.2	183.2	131.0	78.8
100°	467.4	211.0	199.1	151.9	104.5
102.5°	485.7	225.7	214.6	170.5	126.4
105°	499.4	247.6	238.2	200.9	163.4
107.5°	502.0	279.9	271.2	236.3	201.4
110°	498.1	297.9	290.0	258.6	227.1



TEST NUMBER: P935660

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	498.2	319.7	312.2	282.3	252.3
115°	502.9	352.6	345.7	318.0	290.3
117.5°	512.3	384.4	378.2	353.0	327.9
120°	519.9	403.0	397.1	373.4	349.7
122.5°	530.8	424.8	418.8	395.0	371.1
125°	545.5	452.8	447.4	425.6	403.9
127.5°	560.2	479.9	474.4	452.4	430.5
130°	571.0	497.9	492.1	468.4	444.7
132.5°	579.7	512.7	506.8	483.2	459.5
135°	589.2	529.8	524.4	502.9	481.3
137.5°	603.4	551.6	546.3	524.9	503.6
140°	612.2	566.4	561.4	541.8	522.2
142.5°	619.4	577.3	572.7	554.6	536.4
145°	628.9	593.9	590.0	574.1	558.3
147.5°	642.8	614.9	611.0	595.6	580.2
150°	650.2	625.8	622.3	608.3	594.4
152.5°	655.0	632.9	630.3	619.7	609.2
155°	665.3	648.5	646.6	638.8	631.0
157.5°	675.8	664.2	662.3	654.8	647.2
160°	680.6	671.4	669.9	664.0	658.1
162.5°	685.6	679.0	677.9	673.4	669.0
165°	693.0	689.9	688.9	684.9	680.8
167.5°	698.6	696.1	695.6	693.7	691.9
170°	703.4	703.2	702.8	700.8	698.9
172.5°	703.7	703.7	703.6	703.1	702.8
175°	706.5	708.0	708.0	708.0	708.0
177.5°	706.9	708.0	708.0	708.0	708.0
180°	708.0	708.0	708.0	708.0	708.0



TEST NUMBER: P935660  
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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	12.61	13.40	13.63	14.43	15.82	15.41	16.20	16.43	17.23	18.61
	3H	13.08	13.79	14.11	14.83	16.23	16.74	17.45	17.77	18.49	19.89
	4H	13.27	13.94	14.32	14.99	16.39	17.17	17.85	18.22	18.89	20.30
	6H	13.39	14.01	14.44	15.05	16.47	17.45	18.07	18.50	19.11	20.53
	8H	13.38	13.97	14.44	15.04	16.45	17.51	18.10	18.57	19.17	20.58
	12H	13.35	13.91	14.42	14.97	16.41	17.55	18.11	18.61	19.16	20.60
4H	2H	13.63	14.30	14.68	15.34	16.75	15.81	16.48	16.86	17.53	18.93
	3H	14.65	15.21	15.71	16.28	17.70	17.30	17.86	18.36	18.93	20.35
	4H	14.92	15.43	15.99	16.50	17.94	17.82	18.33	18.88	19.39	20.84
	6H	15.04	15.48	16.12	16.57	18.01	18.17	18.61	19.25	19.70	21.14
	8H	15.05	15.46	16.12	16.54	17.99	18.27	18.68	19.35	19.76	21.21
	12H	15.01	15.38	16.10	16.47	17.93	18.32	18.69	19.41	19.78	21.24
8H	4H	15.36	15.78	16.44	16.85	18.31	17.94	18.35	19.01	19.43	20.88
	6H	15.62	15.96	16.72	17.08	18.53	18.36	18.70	19.46	19.82	21.27
	8H	15.66	15.96	16.77	17.06	18.53	18.51	18.81	19.62	19.91	21.38
	12H	15.64	15.91	16.75	17.00	18.51	18.60	18.86	19.71	19.96	21.47
12H	4H	15.36	15.74	16.46	16.83	18.29	17.90	18.27	18.99	19.36	20.82
	6H	15.68	15.98	16.79	17.08	18.55	18.36	18.66	19.47	19.76	21.23
	8H	15.74	16.01	16.85	17.10	18.61	18.51	18.78	19.62	19.87	21.38