

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: P935140

Luminaire Tested: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935140
REPORT IS A COMBINATION OF REPORTS P933743 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

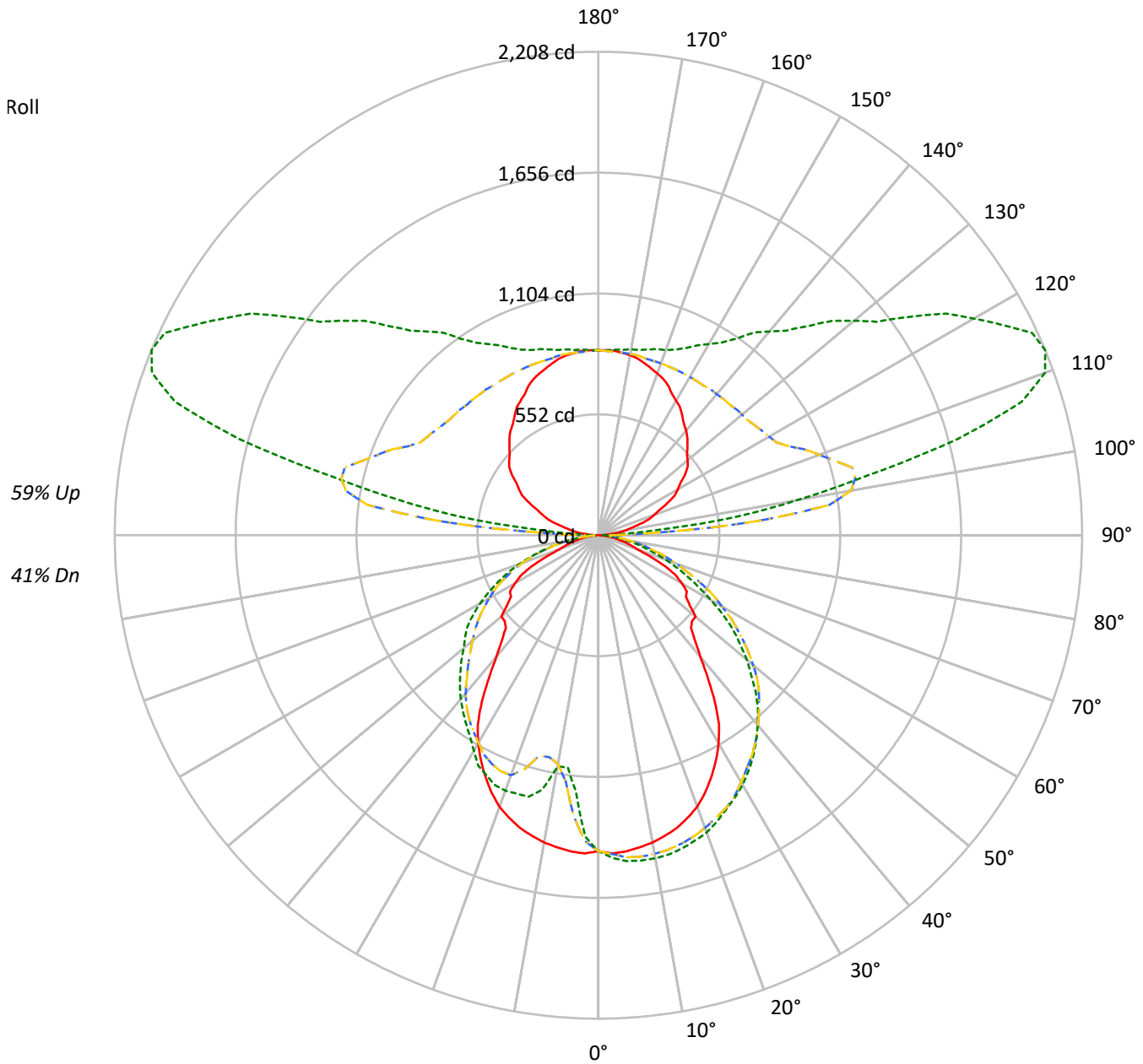
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9224.6 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 73.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8922	8922	8922	8922
5°	8986	9006	8986	7082
10°	8922	8872	8922	6343
15°	8822	8679	8822	7247
20°	8633	8452	8633	7263
25°	8253	8119	8253	7109
30°	7761	7844	7761	6771
35°	6916	7495	6916	6399
40°	5760	7084	5760	6119
45°	5142	6604	5142	5796
50°	5459	6031	5459	5472
55°	5131	5413	5131	5285
60°	5284	4597	5284	4840
65°	4782	3800	4782	4248
70°	3303	3029	3303	3561
75°	2887	2239	2887	2681
80°	2311	1480	2311	1612
85°	1300	784	1300	666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7887 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.4
10°-20°	369.6	4.0
20°-30°	571.4	6.2
30°-40°	682.1	7.4
40°-50°	686.1	7.4
50°-60°	597.0	6.5
60°-70°	423.3	4.6
70°-80°	223.9	2.4
80°-90°	59.0	0.6
90°-100°	412.2	4.5
100°-110°	1083.7	11.7
110°-120°	1123.7	12.2
120°-130°	901.3	9.8
130°-140°	707.2	7.7
140°-150°	542.8	5.9
150°-160°	390.9	4.2
160°-170°	239.2	2.6
170°-180°	80.8	0.9
0°-30°	1071.2	11.6
0°-40°	1753.3	19.0
0°-60°	3036.4	32.9
0°-90°	3742.7	40.6
90°-120°	2619.6	28.4
90°-150°	4771.0	51.7
90°-180°	5482.0	59.4
0°-180°	9224.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1442	1442	1442	1442	1442	
5°	1449	1494	1449	1175	1449	137
15°	1384	1480	1384	1236	1384	389
25°	1218	1381	1218	1209	1218	559
35°	926	1232	926	1052	926	573
45°	598	1015	598	891	598	479
55°	487	749	487	731	487	448
65°	338	452	338	505	338	323
75°	128	214	128	256	128	135
85°	22	55	22	46	22	29
90°	6	22	6	22	6	6
95°	54	249	54	249	54	61
105°	195	1697	195	1697	195	207
115°	347	2185	347	2185	347	343
125°	482	1740	482	1740	482	428
135°	575	1350	575	1350	575	445
145°	667	1095	667	1095	667	418
155°	754	943	754	943	754	346
165°	813	878	813	878	813	230
175°	846	851	846	851	846	80
180°	846	846	846	846	846	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1454.5	1454.5	1462.7	1465.4	1465.4	1461.3	1457.2	1461.3	1473.6	1477.7	1476.3
5°	1449.1	1460.0	1475.0	1477.7	1480.4	1479.1	1476.3	1479.1	1492.7	1495.4	1496.8
7.5°	1438.1	1458.6	1477.7	1481.8	1485.9	1481.8	1480.4	1483.2	1496.8	1499.5	1499.5
10°	1424.5	1453.1	1475.0	1477.7	1481.8	1477.7	1477.7	1483.2	1496.8	1499.5	1500.9
12.5°	1405.4	1445.0	1465.4	1468.2	1473.6	1472.2	1470.9	1476.3	1490.0	1492.7	1492.7
15°	1383.6	1429.9	1449.1	1451.8	1461.3	1458.6	1458.6	1464.1	1479.1	1483.2	1481.8
17.5°	1353.5	1410.8	1432.7	1436.8	1443.6	1442.2	1443.6	1449.1	1462.7	1465.4	1466.8
20°	1319.4	1384.9	1410.8	1414.9	1421.8	1421.8	1421.8	1428.6	1442.2	1447.7	1447.7
22.5°	1273.0	1357.6	1384.9	1387.7	1395.8	1395.8	1398.6	1408.1	1420.4	1421.8	1421.8
25°	1218.5	1327.6	1350.8	1359.0	1367.2	1371.3	1375.4	1380.8	1384.9	1383.6	1384.9
27.5°	1161.2	1289.4	1319.4	1324.9	1335.8	1339.9	1345.4	1346.7	1348.1	1352.2	1349.4
30°	1097.0	1236.2	1281.2	1286.7	1304.4	1307.1	1301.7	1304.4	1311.2	1314.0	1316.7
32.5°	1024.7	1157.1	1241.7	1253.9	1270.3	1262.1	1260.8	1264.9	1275.8	1275.8	1278.5
35°	926.5	1095.7	1204.8	1215.7	1228.0	1218.5	1223.9	1225.3	1232.1	1236.2	1234.8
37.5°	818.7	1042.4	1166.6	1174.8	1184.3	1172.1	1180.3	1184.3	1189.8	1187.1	1187.1
40°	723.2	959.2	1121.6	1127.0	1135.2	1125.7	1133.9	1136.6	1139.3	1136.6	1135.2
42.5°	652.2	867.8	1073.8	1080.6	1075.2	1082.0	1084.7	1090.2	1086.1	1080.6	1080.6
45°	597.6	843.2	1022.0	1030.2	1022.0	1032.9	1037.0	1037.0	1024.7	1022.0	1020.6
47.5°	579.9	794.1	970.1	970.1	966.0	979.7	986.5	977.0	964.7	960.6	960.6
50°	578.5	739.5	899.2	893.7	912.8	929.2	922.4	912.8	903.3	888.3	888.3
52.5°	525.3	672.7	807.8	828.2	858.2	867.8	856.9	847.3	831.0	824.1	818.7
55°	487.1	603.1	724.5	765.5	796.8	809.1	788.7	779.1	754.5	750.5	747.7
57.5°	478.9	502.1	648.1	700.0	738.2	736.8	724.5	706.8	686.3	682.2	680.9
60°	439.4	362.9	566.2	627.6	667.2	663.1	652.2	635.8	616.7	614.0	611.3
62.5°	398.4	263.3	473.5	543.1	599.0	597.6	588.1	563.5	549.9	543.1	537.6
65°	338.4	221.0	337.0	451.6	532.1	534.9	514.4	496.7	481.7	473.5	472.1
67.5°	257.9	180.1	227.9	376.6	468.0	465.3	439.4	431.2	412.1	408.0	399.8
70°	191.0	120.1	158.3	305.6	405.2	398.4	378.0	368.4	350.7	341.1	335.7
72.5°	158.3	96.9	116.0	237.4	341.1	332.9	315.2	304.3	289.3	281.1	275.6
75°	128.3	102.3	88.7	176.0	277.0	271.5	255.2	244.2	232.0	221.0	222.4
77.5°	94.1	95.5	71.0	129.6	219.7	211.5	201.9	188.3	182.8	171.9	171.9
80°	71.0	75.0	53.2	88.7	158.3	158.3	150.1	140.5	131.0	125.5	125.5
82.5°	47.8	47.8	39.6	55.9	107.8	103.7	98.2	95.5	90.1	87.3	87.3
85°	21.8	27.3	24.6	34.1	58.7	61.4	61.4	58.7	57.3	54.6	55.9
87.5°	6.8	12.3	15.0	19.1	30.0	31.4	32.7	32.7	32.7	34.1	34.1
90°	5.6	10.2	14.7	15.9	25.0	37.1	43.1	38.3	28.7	21.6	21.6
92.5°	22.7	61.3	99.9	109.5	154.0	213.2	242.9	212.9	152.8	107.8	103.5
95°	54.5	125.1	195.8	213.4	379.0	599.6	710.0	633.6	480.7	366.0	353.0
97.5°	94.2	156.5	218.9	234.4	510.4	878.4	1062.5	1014.2	917.6	845.1	820.3
100°	124.9	181.4	237.9	252.0	558.2	966.6	1170.8	1174.3	1181.4	1186.7	1157.2
102.5°	151.0	203.8	256.4	269.6	580.3	994.4	1201.4	1263.0	1386.1	1478.4	1453.2
105°	195.2	239.9	284.5	295.7	596.5	997.6	1198.1	1336.1	1612.0	1818.9	1805.4
107.5°	240.6	282.3	323.9	334.3	599.5	953.1	1130.0	1322.4	1707.3	1996.0	1999.3
110°	271.3	308.8	346.5	355.8	595.0	913.8	1073.2	1288.3	1718.7	2041.4	2055.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	301.4	337.2	373.0	382.0	595.2	879.4	1021.5	1241.7	1682.2	2012.5	2034.1
115°	346.8	379.8	412.8	421.1	600.6	840.0	959.7	1171.8	1596.1	1914.3	1944.4
117.5°	391.6	421.6	451.6	459.1	611.7	815.3	917.1	1108.6	1491.4	1778.6	1812.0
120°	417.7	446.0	474.2	481.3	620.9	807.0	900.1	1075.0	1424.9	1687.3	1719.7
122.5°	443.3	471.7	500.3	507.4	633.9	802.7	887.1	1044.6	1359.6	1595.9	1627.9
125°	482.4	508.4	534.4	540.9	651.6	799.1	872.9	1006.7	1274.3	1475.1	1504.5
127.5°	514.2	540.4	566.7	573.3	669.1	797.0	861.0	975.9	1205.6	1378.0	1402.8
130°	531.2	559.5	587.7	594.8	682.0	798.3	856.4	958.7	1163.2	1316.7	1339.6
132.5°	548.8	577.1	605.3	612.4	692.4	799.1	852.4	944.0	1127.1	1264.5	1285.0
135°	574.9	600.6	626.4	632.8	703.8	798.3	845.6	922.3	1075.6	1190.7	1208.5
137.5°	601.5	627.0	652.6	658.9	720.8	803.3	844.5	909.4	1039.0	1136.2	1150.7
140°	623.7	647.2	670.7	676.5	731.2	804.0	840.5	896.5	1008.5	1092.5	1106.0
142.5°	640.7	662.5	684.1	689.6	739.9	806.9	840.5	889.7	988.0	1061.8	1073.5
145°	666.9	685.8	704.7	709.4	751.3	807.0	834.9	875.1	955.6	1015.9	1024.7
147.5°	693.0	711.3	729.7	734.3	767.8	812.5	834.9	866.5	929.8	977.3	984.6
150°	710.0	726.6	743.3	747.4	776.6	815.4	834.9	861.6	915.0	955.1	961.0
152.5°	727.6	740.3	752.8	756.0	782.3	817.3	834.9	857.7	903.4	937.6	942.0
155°	753.7	763.0	772.3	774.6	794.7	821.5	834.9	853.1	889.4	916.6	919.6
157.5°	773.0	782.1	791.1	793.4	807.2	825.7	834.9	849.0	877.3	898.4	900.5
160°	786.0	793.1	800.2	801.9	812.9	827.6	834.9	847.0	871.2	889.4	890.5
162.5°	799.1	804.4	809.7	811.0	818.9	829.6	834.9	845.1	865.5	880.8	881.9
165°	813.3	818.0	822.9	824.0	827.7	832.5	834.9	842.1	856.8	867.8	869.0
167.5°	826.3	828.6	830.9	831.4	834.4	838.5	840.5	845.3	854.9	862.1	862.6
170°	834.9	837.1	839.4	840.0	840.1	840.4	840.5	845.3	854.9	862.1	862.1
172.5°	839.4	839.9	840.4	840.5	840.5	840.5	840.5	844.3	851.9	857.5	857.1
175°	845.6	845.6	845.6	845.6	843.9	841.6	840.5	842.9	847.7	851.3	851.3
177.5°	845.6	845.6	845.6	845.6	844.3	842.6	841.7	843.6	847.3	850.1	849.6
180°	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1479.1	1475.0	1479.1	1476.3	1477.7	1473.6	1461.3	1457.2	1461.3	1465.4	1465.4
5°	1496.8	1494.1	1496.8	1496.8	1495.4	1492.7	1479.1	1476.3	1479.1	1480.4	1477.7
7.5°	1502.3	1498.2	1502.3	1499.5	1499.5	1496.8	1483.2	1480.4	1481.8	1485.9	1481.8
10°	1502.3	1498.2	1502.3	1500.9	1499.5	1496.8	1483.2	1477.7	1477.7	1481.8	1477.7
12.5°	1495.4	1492.7	1495.4	1492.7	1492.7	1490.0	1476.3	1470.9	1472.2	1473.6	1468.2
15°	1484.5	1480.4	1484.5	1481.8	1483.2	1479.1	1464.1	1458.6	1458.6	1461.3	1451.8
17.5°	1468.2	1462.7	1468.2	1466.8	1465.4	1462.7	1449.1	1443.6	1442.2	1443.6	1436.8
20°	1449.1	1445.0	1449.1	1447.7	1447.7	1442.2	1428.6	1421.8	1421.8	1421.8	1414.9
22.5°	1419.0	1414.9	1419.0	1421.8	1421.8	1420.4	1408.1	1398.6	1395.8	1395.8	1387.7
25°	1384.9	1380.8	1384.9	1384.9	1383.6	1384.9	1380.8	1375.4	1371.3	1367.2	1359.0
27.5°	1352.2	1349.4	1352.2	1349.4	1352.2	1348.1	1346.7	1345.4	1339.9	1335.8	1324.9
30°	1319.4	1316.7	1319.4	1316.7	1314.0	1311.2	1304.4	1301.7	1307.1	1304.4	1286.7
32.5°	1278.5	1275.8	1278.5	1278.5	1275.8	1275.8	1264.9	1260.8	1262.1	1270.3	1253.9
35°	1236.2	1232.1	1236.2	1234.8	1236.2	1232.1	1225.3	1223.9	1218.5	1228.0	1215.7
37.5°	1187.1	1183.0	1187.1	1187.1	1187.1	1189.8	1184.3	1180.3	1172.1	1184.3	1174.8
40°	1136.6	1131.1	1136.6	1135.2	1136.6	1139.3	1136.6	1133.9	1125.7	1135.2	1127.0
42.5°	1079.3	1077.9	1079.3	1080.6	1080.6	1086.1	1090.2	1084.7	1082.0	1075.2	1080.6
45°	1017.9	1015.2	1017.9	1020.6	1022.0	1024.7	1037.0	1037.0	1032.9	1022.0	1030.2
47.5°	952.4	945.6	952.4	960.6	960.6	964.7	977.0	986.5	979.7	966.0	970.1
50°	882.8	884.2	882.8	888.3	888.3	903.3	912.8	922.4	929.2	912.8	893.7
52.5°	814.6	813.2	814.6	818.7	824.1	831.0	847.3	856.9	867.8	858.2	828.2
55°	746.4	749.1	746.4	747.7	750.5	754.5	779.1	788.7	809.1	796.8	765.5
57.5°	678.1	674.0	678.1	680.9	682.2	686.3	706.8	724.5	736.8	738.2	700.0
60°	599.0	593.5	599.0	611.3	614.0	616.7	635.8	652.2	663.1	667.2	627.6
62.5°	529.4	519.9	529.4	537.6	543.1	549.9	563.5	588.1	597.6	599.0	543.1
65°	455.7	451.6	455.7	472.1	473.5	481.7	496.7	514.4	534.9	532.1	451.6
67.5°	388.9	388.9	388.9	399.8	408.0	412.1	431.2	439.4	465.3	468.0	376.6
70°	327.5	326.1	327.5	335.7	341.1	350.7	368.4	378.0	398.4	405.2	305.6
72.5°	268.8	267.4	268.8	275.6	281.1	289.3	304.3	315.2	332.9	341.1	237.4
75°	216.9	214.2	216.9	222.4	221.0	232.0	244.2	255.2	271.5	277.0	176.0
77.5°	166.5	166.5	166.5	171.9	171.9	182.8	188.3	201.9	211.5	219.7	129.6
80°	124.2	122.8	124.2	125.5	125.5	131.0	140.5	150.1	158.3	158.3	88.7
82.5°	87.3	84.6	87.3	87.3	87.3	90.1	95.5	98.2	103.7	107.8	55.9
85°	54.6	54.6	54.6	55.9	54.6	57.3	58.7	61.4	61.4	58.7	34.1
87.5°	35.5	34.1	35.5	34.1	34.1	32.7	32.7	32.7	31.4	30.0	19.1
90°	21.6	21.6	21.6	21.6	21.6	28.7	38.3	43.1	37.1	25.0	15.9
92.5°	86.3	69.2	86.3	103.5	107.8	152.8	212.9	242.9	213.2	154.0	109.5
95°	301.1	249.1	301.1	353.0	366.0	480.7	633.6	710.0	599.6	379.0	213.4
97.5°	721.4	622.6	721.4	820.3	845.1	917.6	1014.2	1062.5	878.4	510.4	234.4
100°	1039.4	921.6	1039.4	1157.2	1186.7	1181.4	1174.3	1170.8	966.6	558.2	252.0
102.5°	1352.3	1251.4	1352.3	1453.2	1478.4	1386.1	1263.0	1201.4	994.4	580.3	269.6
105°	1751.1	1696.9	1751.1	1805.4	1818.9	1612.0	1336.1	1198.1	997.6	596.5	295.7
107.5°	2012.5	2025.6	2012.5	1999.3	1996.0	1707.3	1322.4	1130.0	953.1	599.5	334.3
110°	2112.1	2168.6	2112.1	2055.5	2041.4	1718.7	1288.3	1073.2	913.8	595.0	355.8



TEST NUMBER: P935140

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2120.9	2207.7	2120.9	2034.1	2012.5	1682.2	1241.7	1021.5	879.4	595.2	382.0
115°	2064.7	2185.0	2064.7	1944.4	1914.3	1596.1	1171.8	959.7	840.0	600.6	421.1
117.5°	1945.4	2078.9	1945.4	1812.0	1778.6	1491.4	1108.6	917.1	815.3	611.7	459.1
120°	1849.4	1979.0	1849.4	1719.7	1687.3	1424.9	1075.0	900.1	807.0	620.9	481.3
122.5°	1755.8	1883.7	1755.8	1627.9	1595.9	1359.6	1044.6	887.1	802.7	633.9	507.4
125°	1622.2	1740.0	1622.2	1504.5	1475.1	1274.3	1006.7	872.9	799.1	651.6	540.9
127.5°	1502.3	1601.6	1502.3	1402.8	1378.0	1205.6	975.9	861.0	797.0	669.1	573.3
130°	1431.5	1523.3	1431.5	1339.6	1316.7	1163.2	958.7	856.4	798.3	682.0	594.8
132.5°	1367.3	1449.5	1367.3	1285.0	1264.5	1127.1	944.0	852.4	799.1	692.4	612.4
135°	1279.3	1350.2	1279.3	1208.5	1190.7	1075.6	922.3	845.6	798.3	703.8	632.8
137.5°	1208.7	1266.8	1208.7	1150.7	1136.2	1039.0	909.4	844.5	803.3	720.8	658.9
140°	1160.3	1214.5	1160.3	1106.0	1092.5	1008.5	896.5	840.5	804.0	731.2	676.5
142.5°	1120.2	1166.9	1120.2	1073.5	1061.8	988.0	889.7	840.5	806.9	739.9	689.6
145°	1060.1	1095.4	1060.1	1024.7	1015.9	955.6	875.1	834.9	807.0	751.3	709.4
147.5°	1013.9	1043.2	1013.9	984.6	977.3	929.8	866.5	834.9	812.5	767.8	734.3
150°	984.8	1008.5	984.8	961.0	955.1	915.0	861.6	834.9	815.4	776.6	747.4
152.5°	959.9	977.9	959.9	942.0	937.6	903.4	857.7	834.9	817.3	782.3	756.0
155°	931.4	943.2	931.4	919.6	916.6	889.4	853.1	834.9	821.5	794.7	774.6
157.5°	908.8	917.1	908.8	900.5	898.4	877.3	849.0	834.9	825.7	807.2	793.4
160°	895.4	900.1	895.4	890.5	889.4	871.2	847.0	834.9	827.6	812.9	801.9
162.5°	886.4	891.0	886.4	881.9	880.8	865.5	845.1	834.9	829.6	818.9	811.0
165°	873.8	878.5	873.8	869.0	867.8	856.8	842.1	834.9	832.5	827.7	824.0
167.5°	864.6	866.6	864.6	862.6	862.1	854.9	845.3	840.5	838.5	834.4	831.4
170°	862.1	862.1	862.1	862.1	862.1	854.9	845.3	840.5	840.4	840.1	840.0
172.5°	855.3	853.6	855.3	857.1	857.5	851.9	844.3	840.5	840.5	840.5	840.5
175°	851.3	851.3	851.3	851.3	851.3	847.7	842.9	840.5	841.6	843.9	845.6
177.5°	847.6	845.6	847.6	849.6	850.1	847.3	843.6	841.7	842.6	844.3	845.6
180°	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6



TEST NUMBER: P935140

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1462.7	1454.5	1454.5	1440.9	1435.4	1431.3	1424.5	1404.0	1398.6	1393.1	1401.3
5°	1475.0	1460.0	1449.1	1424.5	1404.0	1395.8	1369.9	1320.8	1288.0	1263.5	1249.8
7.5°	1477.7	1458.6	1438.1	1399.9	1350.8	1329.0	1249.8	1159.8	1135.2	1113.4	1099.8
10°	1475.0	1453.1	1424.5	1367.2	1251.2	1213.0	1133.9	1075.2	1060.2	1056.1	1060.2
12.5°	1465.4	1445.0	1405.4	1309.9	1147.5	1121.6	1075.2	1041.1	1038.4	1045.2	1082.0
15°	1449.1	1429.9	1383.6	1233.5	1090.2	1071.1	1038.4	1026.1	1041.1	1088.8	1199.4
17.5°	1432.7	1410.8	1353.5	1158.4	1046.5	1032.9	1009.7	1034.3	1118.9	1183.0	1219.8
20°	1410.8	1384.9	1319.4	1103.8	1015.2	1002.9	992.0	1102.5	1166.6	1189.8	1210.3
22.5°	1384.9	1357.6	1273.0	1065.6	982.4	972.9	979.7	1140.7	1166.6	1183.0	1200.7
25°	1350.8	1327.6	1218.5	1035.6	956.5	945.6	971.5	1136.6	1151.6	1155.7	1191.2
27.5°	1319.4	1289.4	1161.2	1008.3	925.1	921.0	978.3	1118.9	1129.8	1133.9	1172.1
30°	1281.2	1236.2	1097.0	979.7	892.4	891.0	979.7	1097.0	1094.3	1105.2	1143.4
32.5°	1241.7	1157.1	1024.7	944.2	861.0	859.6	970.1	1064.3	1061.5	1076.6	1105.2
35°	1204.8	1095.7	926.5	903.3	821.4	822.8	946.9	1026.1	1027.4	1041.1	1058.8
37.5°	1166.6	1042.4	818.7	858.2	783.2	783.2	915.5	990.6	987.9	992.0	1016.5
40°	1121.6	959.2	723.2	799.6	747.7	743.6	877.3	952.4	942.8	941.5	975.6
42.5°	1073.8	867.8	652.2	721.8	706.8	701.3	831.0	906.0	888.3	892.4	936.0
45°	1022.0	843.2	597.6	609.9	664.5	660.4	780.5	852.8	840.5	851.4	896.4
47.5°	970.1	794.1	579.9	506.2	619.5	618.1	724.5	800.9	794.1	805.0	852.8
50°	899.2	739.5	578.5	433.9	569.0	574.4	657.7	750.5	750.5	760.0	810.5
52.5°	807.8	672.7	525.3	393.0	510.3	526.7	599.0	706.8	709.5	719.1	764.1
55°	724.5	603.1	487.1	361.6	440.7	476.2	541.7	661.8	667.2	676.8	717.7
57.5°	648.1	502.1	478.9	324.7	376.6	410.7	491.2	618.1	620.8	629.0	668.6
60°	566.2	362.9	439.4	285.2	320.6	346.6	444.8	566.2	575.8	581.3	615.4
62.5°	473.5	263.3	398.4	257.9	293.4	298.8	406.6	517.1	529.4	533.5	554.0
65°	337.0	221.0	338.4	234.7	264.7	266.1	365.7	466.6	477.6	484.4	499.4
67.5°	227.9	180.1	257.9	212.9	242.9	244.2	326.1	408.0	423.0	428.4	438.0
70°	158.3	120.1	191.0	189.7	218.3	221.0	283.8	354.8	368.4	372.5	378.0
72.5°	116.0	96.9	158.3	170.6	192.4	195.1	240.1	294.7	308.4	312.5	315.2
75°	88.7	102.3	128.3	148.7	163.7	165.1	196.5	240.1	249.7	252.4	253.8
77.5°	71.0	95.5	94.1	120.1	133.7	131.0	154.2	185.6	193.8	193.8	193.8
80°	53.2	75.0	71.0	86.0	98.2	95.5	110.5	132.4	135.1	137.8	136.4
82.5°	39.6	47.8	47.8	54.6	65.5	62.8	73.7	86.0	86.0	86.0	88.7
85°	24.6	27.3	21.8	28.7	36.8	35.5	40.9	46.4	47.8	47.8	45.0
87.5°	15.0	12.3	6.8	10.9	16.4	16.4	19.1	20.5	19.1	19.1	19.1
90°	14.7	10.2	5.6	10.2	14.7	15.9	25.0	37.1	43.1	38.3	28.7
92.5°	99.9	61.3	22.7	61.3	99.9	109.5	154.0	213.2	242.9	212.9	152.8
95°	195.8	125.1	54.5	125.1	195.8	213.4	379.0	599.6	710.0	633.6	480.7
97.5°	218.9	156.5	94.2	156.5	218.9	234.4	510.4	878.4	1062.5	1014.2	917.6
100°	237.9	181.4	124.9	181.4	237.9	252.0	558.2	966.6	1170.8	1174.3	1181.4
102.5°	256.4	203.8	151.0	203.8	256.4	269.6	580.3	994.4	1201.4	1263.0	1386.1
105°	284.5	239.9	195.2	239.9	284.5	295.7	596.5	997.6	1198.1	1336.1	1612.0
107.5°	323.9	282.3	240.6	282.3	323.9	334.3	599.5	953.1	1130.0	1322.4	1707.3
110°	346.5	308.8	271.3	308.8	346.5	355.8	595.0	913.8	1073.2	1288.3	1718.7



TEST NUMBER: P935140

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	373.0	337.2	301.4	337.2	373.0	382.0	595.2	879.4	1021.5	1241.7	1682.2
115°	412.8	379.8	346.8	379.8	412.8	421.1	600.6	840.0	959.7	1171.8	1596.1
117.5°	451.6	421.6	391.6	421.6	451.6	459.1	611.7	815.3	917.1	1108.6	1491.4
120°	474.2	446.0	417.7	446.0	474.2	481.3	620.9	807.0	900.1	1075.0	1424.9
122.5°	500.3	471.7	443.3	471.7	500.3	507.4	633.9	802.7	887.1	1044.6	1359.6
125°	534.4	508.4	482.4	508.4	534.4	540.9	651.6	799.1	872.9	1006.7	1274.3
127.5°	566.7	540.4	514.2	540.4	566.7	573.3	669.1	797.0	861.0	975.9	1205.6
130°	587.7	559.5	531.2	559.5	587.7	594.8	682.0	798.3	856.4	958.7	1163.2
132.5°	605.3	577.1	548.8	577.1	605.3	612.4	692.4	799.1	852.4	944.0	1127.1
135°	626.4	600.6	574.9	600.6	626.4	632.8	703.8	798.3	845.6	922.3	1075.6
137.5°	652.6	627.0	601.5	627.0	652.6	658.9	720.8	803.3	844.5	909.4	1039.0
140°	670.7	647.2	623.7	647.2	670.7	676.5	731.2	804.0	840.5	896.5	1008.5
142.5°	684.1	662.5	640.7	662.5	684.1	689.6	739.9	806.9	840.5	889.7	988.0
145°	704.7	685.8	666.9	685.8	704.7	709.4	751.3	807.0	834.9	875.1	955.6
147.5°	729.7	711.3	693.0	711.3	729.7	734.3	767.8	812.5	834.9	866.5	929.8
150°	743.3	726.6	710.0	726.6	743.3	747.4	776.6	815.4	834.9	861.6	915.0
152.5°	752.8	740.3	727.6	740.3	752.8	756.0	782.3	817.3	834.9	857.7	903.4
155°	772.3	763.0	753.7	763.0	772.3	774.6	794.7	821.5	834.9	853.1	889.4
157.5°	791.1	782.1	773.0	782.1	791.1	793.4	807.2	825.7	834.9	849.0	877.3
160°	800.2	793.1	786.0	793.1	800.2	801.9	812.9	827.6	834.9	847.0	871.2
162.5°	809.7	804.4	799.1	804.4	809.7	811.0	818.9	829.6	834.9	845.1	865.5
165°	822.9	818.0	813.3	818.0	822.9	824.0	827.7	832.5	834.9	842.1	856.8
167.5°	830.9	828.6	826.3	828.6	830.9	831.4	834.4	838.5	840.5	845.3	854.9
170°	839.4	837.1	834.9	837.1	839.4	840.0	840.1	840.4	840.5	845.3	854.9
172.5°	840.4	839.9	839.4	839.9	840.4	840.5	840.5	840.5	840.5	844.3	851.9
175°	845.6	845.6	845.6	845.6	845.6	845.6	843.9	841.6	840.5	842.9	847.7
177.5°	845.6	845.6	845.6	845.6	845.6	845.6	844.3	842.6	841.7	843.6	847.3
180°	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6



TEST NUMBER: P935140

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1391.7	1387.7	1393.1	1378.1	1393.1	1387.7	1391.7	1401.3	1393.1	1398.6	1404.0
5°	1221.2	1214.4	1192.5	1174.8	1192.5	1214.4	1221.2	1249.8	1263.5	1288.0	1320.8
7.5°	1091.6	1086.1	1080.6	1069.7	1080.6	1086.1	1091.6	1099.8	1113.4	1135.2	1159.8
10°	1062.9	1064.3	1072.5	1071.1	1072.5	1064.3	1062.9	1060.2	1056.1	1060.2	1075.2
12.5°	1136.6	1148.9	1193.9	1191.2	1193.9	1148.9	1136.6	1082.0	1045.2	1038.4	1041.1
15°	1221.2	1225.3	1234.8	1236.2	1234.8	1225.3	1221.2	1199.4	1088.8	1041.1	1026.1
17.5°	1229.4	1230.7	1237.6	1237.6	1237.6	1230.7	1229.4	1219.8	1183.0	1118.9	1034.3
20°	1222.6	1225.3	1238.9	1241.7	1238.9	1225.3	1222.6	1210.3	1189.8	1166.6	1102.5
22.5°	1219.8	1225.3	1236.2	1234.8	1236.2	1225.3	1219.8	1200.7	1183.0	1166.6	1140.7
25°	1206.2	1206.2	1207.5	1208.9	1207.5	1206.2	1206.2	1191.2	1155.7	1151.6	1136.6
27.5°	1177.5	1180.3	1188.4	1187.1	1188.4	1180.3	1177.5	1172.1	1133.9	1129.8	1118.9
30°	1151.6	1148.9	1142.0	1136.6	1142.0	1148.9	1151.6	1143.4	1105.2	1094.3	1097.0
32.5°	1107.9	1101.1	1094.3	1090.2	1094.3	1101.1	1107.9	1105.2	1076.6	1061.5	1064.3
35°	1056.1	1057.5	1056.1	1052.0	1056.1	1057.5	1056.1	1058.8	1041.1	1027.4	1026.1
37.5°	1019.2	1022.0	1020.6	1015.2	1020.6	1022.0	1019.2	1016.5	992.0	987.9	990.6
40°	981.0	982.4	981.0	977.0	981.0	982.4	981.0	975.6	941.5	942.8	952.4
42.5°	944.2	942.8	938.7	936.0	938.7	942.8	944.2	936.0	892.4	888.3	906.0
45°	901.9	903.3	895.1	891.0	895.1	903.3	901.9	896.4	851.4	840.5	852.8
47.5°	859.6	859.6	852.8	848.7	852.8	859.6	859.6	852.8	805.0	794.1	800.9
50°	814.6	813.2	803.7	802.3	803.7	813.2	814.6	810.5	760.0	750.5	750.5
52.5°	762.7	762.7	764.1	766.8	764.1	762.7	762.7	764.1	719.1	709.5	706.8
55°	717.7	719.1	728.6	731.3	728.6	719.1	717.7	717.7	676.8	667.2	661.8
57.5°	671.3	671.3	678.1	678.1	678.1	671.3	671.3	668.6	629.0	620.8	618.1
60°	618.1	620.8	626.3	624.9	626.3	620.8	618.1	615.4	581.3	575.8	566.2
62.5°	562.2	564.9	566.2	563.5	566.2	564.9	562.2	554.0	533.5	529.4	517.1
65°	503.5	506.2	507.6	504.8	507.6	506.2	503.5	499.4	484.4	477.6	466.6
67.5°	443.4	442.1	440.7	446.2	440.7	442.1	443.4	438.0	428.4	423.0	408.0
70°	382.0	382.0	380.7	383.4	380.7	382.0	382.0	378.0	372.5	368.4	354.8
72.5°	316.6	315.2	320.6	316.6	320.6	315.2	316.6	315.2	312.5	308.4	294.7
75°	252.4	255.2	252.4	256.5	252.4	255.2	252.4	253.8	252.4	249.7	240.1
77.5°	192.4	195.1	192.4	192.4	192.4	195.1	192.4	193.8	193.8	193.8	185.6
80°	136.4	135.1	135.1	133.7	135.1	135.1	136.4	136.4	137.8	135.1	132.4
82.5°	87.3	86.0	86.0	88.7	86.0	86.0	87.3	88.7	86.0	86.0	86.0
85°	47.8	49.1	46.4	46.4	46.4	49.1	47.8	45.0	47.8	47.8	46.4
87.5°	17.7	16.4	16.4	16.4	16.4	16.4	17.7	19.1	19.1	19.1	20.5
90°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	28.7	38.3	43.1	37.1
92.5°	107.8	103.5	86.3	69.2	86.3	103.5	107.8	152.8	212.9	242.9	213.2
95°	366.0	353.0	301.1	249.1	301.1	353.0	366.0	480.7	633.6	710.0	599.6
97.5°	845.1	820.3	721.4	622.6	721.4	820.3	845.1	917.6	1014.2	1062.5	878.4
100°	1186.7	1157.2	1039.4	921.6	1039.4	1157.2	1186.7	1181.4	1174.3	1170.8	966.6
102.5°	1478.4	1453.2	1352.3	1251.4	1352.3	1453.2	1478.4	1386.1	1263.0	1201.4	994.4
105°	1818.9	1805.4	1751.1	1696.9	1751.1	1805.4	1818.9	1612.0	1336.1	1198.1	997.6
107.5°	1996.0	1999.3	2012.5	2025.6	2012.5	1999.3	1996.0	1707.3	1322.4	1130.0	953.1
110°	2041.4	2055.5	2112.1	2168.6	2112.1	2055.5	2041.4	1718.7	1288.3	1073.2	913.8



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2012.5	2034.1	2120.9	2207.7	2120.9	2034.1	2012.5	1682.2	1241.7	1021.5	879.4
115°	1914.3	1944.4	2064.7	2185.0	2064.7	1944.4	1914.3	1596.1	1171.8	959.7	840.0
117.5°	1778.6	1812.0	1945.4	2078.9	1945.4	1812.0	1778.6	1491.4	1108.6	917.1	815.3
120°	1687.3	1719.7	1849.4	1979.0	1849.4	1719.7	1687.3	1424.9	1075.0	900.1	807.0
122.5°	1595.9	1627.9	1755.8	1883.7	1755.8	1627.9	1595.9	1359.6	1044.6	887.1	802.7
125°	1475.1	1504.5	1622.2	1740.0	1622.2	1504.5	1475.1	1274.3	1006.7	872.9	799.1
127.5°	1378.0	1402.8	1502.3	1601.6	1502.3	1402.8	1378.0	1205.6	975.9	861.0	797.0
130°	1316.7	1339.6	1431.5	1523.3	1431.5	1339.6	1316.7	1163.2	958.7	856.4	798.3
132.5°	1264.5	1285.0	1367.3	1449.5	1367.3	1285.0	1264.5	1127.1	944.0	852.4	799.1
135°	1190.7	1208.5	1279.3	1350.2	1279.3	1208.5	1190.7	1075.6	922.3	845.6	798.3
137.5°	1136.2	1150.7	1208.7	1266.8	1208.7	1150.7	1136.2	1039.0	909.4	844.5	803.3
140°	1092.5	1106.0	1160.3	1214.5	1160.3	1106.0	1092.5	1008.5	896.5	840.5	804.0
142.5°	1061.8	1073.5	1120.2	1166.9	1120.2	1073.5	1061.8	988.0	889.7	840.5	806.9
145°	1015.9	1024.7	1060.1	1095.4	1060.1	1024.7	1015.9	955.6	875.1	834.9	807.0
147.5°	977.3	984.6	1013.9	1043.2	1013.9	984.6	977.3	929.8	866.5	834.9	812.5
150°	955.1	961.0	984.8	1008.5	984.8	961.0	955.1	915.0	861.6	834.9	815.4
152.5°	937.6	942.0	959.9	977.9	959.9	942.0	937.6	903.4	857.7	834.9	817.3
155°	916.6	919.6	931.4	943.2	931.4	919.6	916.6	889.4	853.1	834.9	821.5
157.5°	898.4	900.5	908.8	917.1	908.8	900.5	898.4	877.3	849.0	834.9	825.7
160°	889.4	890.5	895.4	900.1	895.4	890.5	889.4	871.2	847.0	834.9	827.6
162.5°	880.8	881.9	886.4	891.0	886.4	881.9	880.8	865.5	845.1	834.9	829.6
165°	867.8	869.0	873.8	878.5	873.8	869.0	867.8	856.8	842.1	834.9	832.5
167.5°	862.1	862.6	864.6	866.6	864.6	862.6	862.1	854.9	845.3	840.5	838.5
170°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	854.9	845.3	840.5	840.4
172.5°	857.5	857.1	855.3	853.6	855.3	857.1	857.5	851.9	844.3	840.5	840.5
175°	851.3	851.3	851.3	851.3	851.3	851.3	851.3	847.7	842.9	840.5	841.6
177.5°	850.1	849.6	847.6	845.6	847.6	849.6	850.1	847.3	843.6	841.7	842.6
180°	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6	845.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1424.5	1431.3	1435.4	1440.9	1454.5
5°	1369.9	1395.8	1404.0	1424.5	1449.1
7.5°	1249.8	1329.0	1350.8	1399.9	1438.1
10°	1133.9	1213.0	1251.2	1367.2	1424.5
12.5°	1075.2	1121.6	1147.5	1309.9	1405.4
15°	1038.4	1071.1	1090.2	1233.5	1383.6
17.5°	1009.7	1032.9	1046.5	1158.4	1353.5
20°	992.0	1002.9	1015.2	1103.8	1319.4
22.5°	979.7	972.9	982.4	1065.6	1273.0
25°	971.5	945.6	956.5	1035.6	1218.5
27.5°	978.3	921.0	925.1	1008.3	1161.2
30°	979.7	891.0	892.4	979.7	1097.0
32.5°	970.1	859.6	861.0	944.2	1024.7
35°	946.9	822.8	821.4	903.3	926.5
37.5°	915.5	783.2	783.2	858.2	818.7
40°	877.3	743.6	747.7	799.6	723.2
42.5°	831.0	701.3	706.8	721.8	652.2
45°	780.5	660.4	664.5	609.9	597.6
47.5°	724.5	618.1	619.5	506.2	579.9
50°	657.7	574.4	569.0	433.9	578.5
52.5°	599.0	526.7	510.3	393.0	525.3
55°	541.7	476.2	440.7	361.6	487.1
57.5°	491.2	410.7	376.6	324.7	478.9
60°	444.8	346.6	320.6	285.2	439.4
62.5°	406.6	298.8	293.4	257.9	398.4
65°	365.7	266.1	264.7	234.7	338.4
67.5°	326.1	244.2	242.9	212.9	257.9
70°	283.8	221.0	218.3	189.7	191.0
72.5°	240.1	195.1	192.4	170.6	158.3
75°	196.5	165.1	163.7	148.7	128.3
77.5°	154.2	131.0	133.7	120.1	94.1
80°	110.5	95.5	98.2	86.0	71.0
82.5°	73.7	62.8	65.5	54.6	47.8
85°	40.9	35.5	36.8	28.7	21.8
87.5°	19.1	16.4	16.4	10.9	6.8
90°	25.0	15.9	14.7	10.2	5.6
92.5°	154.0	109.5	99.9	61.3	22.7
95°	379.0	213.4	195.8	125.1	54.5
97.5°	510.4	234.4	218.9	156.5	94.2
100°	558.2	252.0	237.9	181.4	124.9
102.5°	580.3	269.6	256.4	203.8	151.0
105°	596.5	295.7	284.5	239.9	195.2
107.5°	599.5	334.3	323.9	282.3	240.6
110°	595.0	355.8	346.5	308.8	271.3



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CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	595.2	382.0	373.0	337.2	301.4
115°	600.6	421.1	412.8	379.8	346.8
117.5°	611.7	459.1	451.6	421.6	391.6
120°	620.9	481.3	474.2	446.0	417.7
122.5°	633.9	507.4	500.3	471.7	443.3
125°	651.6	540.9	534.4	508.4	482.4
127.5°	669.1	573.3	566.7	540.4	514.2
130°	682.0	594.8	587.7	559.5	531.2
132.5°	692.4	612.4	605.3	577.1	548.8
135°	703.8	632.8	626.4	600.6	574.9
137.5°	720.8	658.9	652.6	627.0	601.5
140°	731.2	676.5	670.7	647.2	623.7
142.5°	739.9	689.6	684.1	662.5	640.7
145°	751.3	709.4	704.7	685.8	666.9
147.5°	767.8	734.3	729.7	711.3	693.0
150°	776.6	747.4	743.3	726.6	710.0
152.5°	782.3	756.0	752.8	740.3	727.6
155°	794.7	774.6	772.3	763.0	753.7
157.5°	807.2	793.4	791.1	782.1	773.0
160°	812.9	801.9	800.2	793.1	786.0
162.5°	818.9	811.0	809.7	804.4	799.1
165°	827.7	824.0	822.9	818.0	813.3
167.5°	834.4	831.4	830.9	828.6	826.3
170°	840.1	840.0	839.4	837.1	834.9
172.5°	840.5	840.5	840.4	839.9	839.4
175°	843.9	845.6	845.6	845.6	845.6
177.5°	844.3	845.6	845.6	845.6	845.6
180°	845.6	845.6	845.6	845.6	845.6



TEST NUMBER: P935140
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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	11.47	12.25	12.50	13.29	14.69	14.29	15.07	15.33	16.11	17.51
	3H	11.94	12.64	12.98	13.69	15.11	15.63	16.33	16.67	17.38	18.80
	4H	12.13	12.79	13.18	13.84	15.27	16.07	16.73	17.12	17.78	19.21
	6H	12.24	12.85	13.31	13.91	15.35	16.35	16.96	17.41	18.02	19.45
	8H	12.24	12.82	13.31	13.89	15.33	16.42	17.00	17.49	18.07	19.51
	12H	12.21	12.76	13.28	13.83	15.28	16.45	17.01	17.53	18.07	19.53
4H	2H	12.49	13.15	13.55	14.20	15.63	14.69	15.36	15.75	16.41	17.83
	3H	13.51	14.06	14.58	15.14	16.58	16.19	16.74	17.26	17.82	19.26
	4H	13.78	14.29	14.86	15.36	16.82	16.71	17.22	17.79	18.29	19.75
	6H	13.90	14.34	14.99	15.43	16.89	17.07	17.51	18.16	18.60	20.05
	8H	13.91	14.31	14.99	15.40	16.87	17.17	17.58	18.26	18.67	20.14
	12H	13.87	14.24	14.97	15.34	16.81	17.23	17.59	18.33	18.69	20.17
8H	4H	14.23	14.63	15.31	15.72	17.19	16.83	17.24	17.92	18.32	19.79
	6H	14.49	14.82	15.59	15.95	17.42	17.26	17.60	18.37	18.73	20.19
	8H	14.53	14.82	15.64	15.93	17.42	17.41	17.71	18.53	18.82	20.30
	12H	14.51	14.77	15.63	15.87	17.40	17.51	17.76	18.62	18.87	20.40
12H	4H	14.23	14.60	15.33	15.70	17.17	16.79	17.16	17.89	18.26	19.73
	6H	14.55	14.84	15.66	15.95	17.44	17.26	17.55	18.37	18.66	20.15
	8H	14.61	14.87	15.73	15.97	17.50	17.41	17.67	18.53	18.78	20.31