

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: P935844

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

**Test Information**

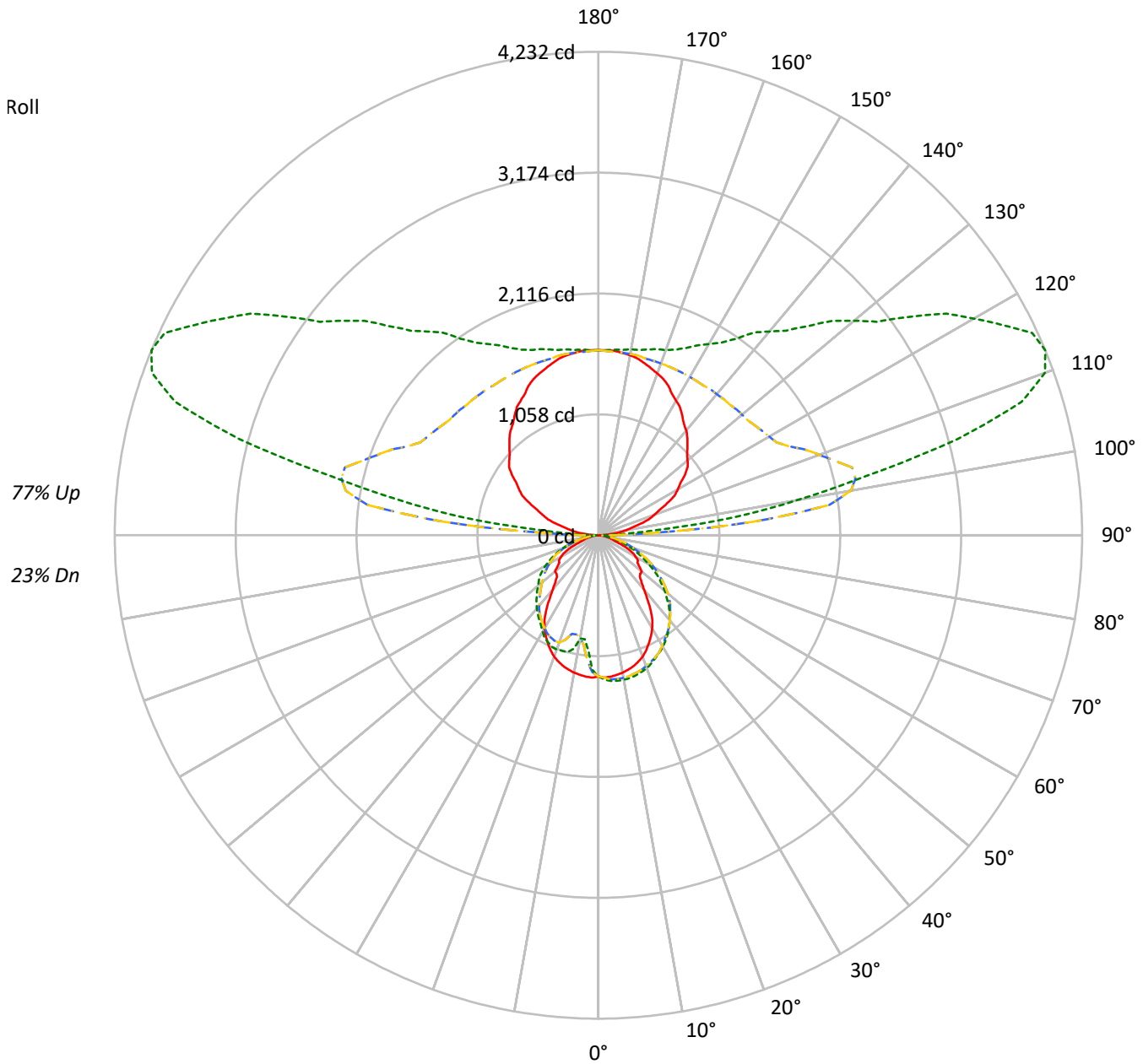
Test Method: LM-79-2019  
Report Number: P935844  
REPORT IS A COMBINATION OF REPORTS P933772 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13718.8 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 111.2  
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

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

**MAXIMUM LUMINANCE 45°-90°:**

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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	0.8
10°-20°	316.9	2.3
20°-30°	489.8	3.6
30°-40°	584.7	4.3
40°-50°	588.2	4.3
50°-60°	511.8	3.7
60°-70°	362.9	2.6
70°-80°	192.0	1.4
80°-90°	54.0	0.4
90°-100°	790.1	5.8
100°-110°	2077.1	15.1
110°-120°	2153.8	15.7
120°-130°	1727.6	12.6
130°-140°	1355.5	9.9
140°-150°	1040.4	7.6
150°-160°	749.3	5.5
160°-170°	458.4	3.3
170°-180°	154.9	1.1
0°-30°	918.3	6.7
0°-40°	1503.0	11.0
0°-60°	2603.0	19.0
0°-90°	3211.8	23.4
90°-120°	5020.9	36.6
90°-150°	9144.4	66.7
90°-180°	10507.0	76.6
0°-180°	13718.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1236	1236	1236	1236	1236	
5°	1242	1281	1242	1007	1242	118
15°	1186	1269	1186	1060	1186	334
25°	1044	1184	1044	1036	1044	480
35°	794	1056	794	902	794	491
45°	512	870	512	764	512	410
55°	418	642	418	627	418	384
65°	290	387	290	433	290	277
75°	110	184	110	220	110	116
85°	19	47	19	40	19	25
90°	11	41	11	41	11	10
95°	104	478	104	478	104	116
105°	374	3252	374	3252	374	397
115°	665	4188	665	4188	665	656
125°	925	3335	925	3335	925	821
135°	1102	2588	1102	2588	1102	853
145°	1278	2099	1278	2099	1278	801
155°	1445	1808	1445	1808	1445	664
165°	1559	1684	1559	1684	1559	440
175°	1621	1632	1621	1632	1621	154
180°	1621	1621	1621	1621	1621	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1246.8	1246.8	1253.9	1256.3	1256.3	1252.7	1249.2	1252.7	1263.2	1266.7	1265.6
5°	1242.2	1251.5	1264.4	1266.7	1269.1	1267.9	1265.6	1267.9	1279.6	1282.0	1283.1
7.5°	1232.8	1250.4	1266.7	1270.3	1273.8	1270.3	1269.1	1271.4	1283.1	1285.5	1285.5
10°	1221.1	1245.7	1264.4	1266.7	1270.3	1266.7	1266.7	1271.4	1283.1	1285.5	1286.6
12.5°	1204.7	1238.6	1256.3	1258.5	1263.2	1262.1	1260.9	1265.6	1277.3	1279.6	1279.6
15°	1186.1	1225.8	1242.2	1244.5	1252.7	1250.4	1250.4	1255.0	1267.9	1271.4	1270.3
17.5°	1160.3	1209.4	1228.2	1231.7	1237.5	1236.4	1237.5	1242.2	1253.9	1256.3	1257.4
20°	1131.0	1187.2	1209.4	1212.9	1218.8	1218.8	1218.8	1224.6	1236.4	1241.0	1241.0
22.5°	1091.3	1163.8	1187.2	1189.5	1196.6	1196.6	1198.9	1207.1	1217.6	1218.8	1218.8
25°	1044.5	1138.1	1158.0	1165.0	1172.0	1175.5	1179.0	1183.7	1187.2	1186.1	1187.2
27.5°	995.4	1105.3	1131.0	1135.7	1145.1	1148.6	1153.3	1154.5	1155.6	1159.1	1156.8
30°	940.4	1059.7	1098.3	1103.0	1118.2	1120.6	1115.9	1118.2	1124.1	1126.4	1128.8
32.5°	878.4	991.9	1064.4	1075.0	1089.0	1081.9	1080.8	1084.3	1093.6	1093.6	1096.0
35°	794.2	939.3	1032.8	1042.2	1052.7	1044.5	1049.2	1050.4	1056.2	1059.7	1058.6
37.5°	701.8	893.7	1000.0	1007.1	1015.3	1004.8	1011.7	1015.3	1019.9	1017.6	1017.6
40°	619.9	822.2	961.5	966.1	973.2	965.0	972.0	974.3	976.7	974.3	973.2
42.5°	559.1	743.9	920.5	926.4	921.7	927.6	929.8	934.6	931.1	926.4	926.4
45°	512.3	722.8	876.0	883.1	876.0	885.5	889.0	889.0	878.4	876.0	874.9
47.5°	497.1	680.7	831.7	831.7	828.1	839.9	845.7	837.5	826.9	823.5	823.5
50°	495.9	634.0	770.8	766.2	782.5	796.5	790.7	782.5	774.3	761.5	761.5
52.5°	450.3	576.7	692.5	710.0	735.7	743.9	734.5	726.4	712.4	706.4	701.8
55°	417.5	517.0	621.1	656.2	683.1	693.6	676.1	667.9	646.8	643.3	640.9
57.5°	410.6	430.4	555.6	600.0	632.7	631.6	621.1	605.9	588.4	584.9	583.7
60°	376.6	311.1	485.4	538.0	572.0	568.5	559.1	545.0	528.7	526.4	524.0
62.5°	341.6	225.8	405.8	465.5	513.5	512.3	504.1	483.1	471.3	465.5	460.9
65°	290.0	189.5	288.9	387.2	456.2	458.5	441.0	425.7	412.9	405.8	404.7
67.5°	221.1	154.4	195.3	322.8	401.2	398.9	376.6	369.7	353.3	349.8	342.7
70°	163.8	102.9	135.7	262.0	347.4	341.6	324.0	315.9	300.6	292.4	287.8
72.5°	135.7	83.0	99.4	203.5	292.4	285.4	270.2	260.8	248.0	240.9	236.2
75°	110.0	87.7	76.0	150.9	237.5	232.7	218.7	209.4	198.8	189.5	190.6
77.5°	80.8	81.9	60.8	111.1	188.4	181.3	173.1	161.4	156.7	147.4	147.4
80°	60.8	64.4	45.6	76.0	135.7	135.7	128.6	120.5	112.3	107.6	107.6
82.5°	40.9	40.9	33.9	48.0	92.4	88.9	84.2	81.9	77.2	74.8	74.8
85°	18.7	23.4	21.0	29.2	50.3	52.7	52.7	50.3	49.1	46.8	48.0
87.5°	5.8	10.6	12.9	16.4	25.7	26.9	28.1	28.1	28.1	29.2	29.2
90°	10.9	19.6	28.3	30.4	47.9	71.1	82.7	73.5	55.1	41.3	41.3
92.5°	43.5	117.5	191.5	210.0	295.2	408.8	465.6	408.0	293.0	206.7	198.5
95°	104.5	239.8	375.1	409.0	726.2	1149.3	1360.8	1214.3	921.4	701.6	676.7
97.5°	180.6	300.0	419.4	449.3	978.3	1683.7	2036.4	1943.8	1758.6	1619.7	1572.4
100°	239.3	347.6	455.9	483.0	1070.1	1852.7	2244.1	2250.9	2264.4	2274.5	2218.1
102.5°	289.3	390.4	491.4	516.7	1112.1	1905.9	2302.9	2420.9	2656.7	2833.7	2785.4
105°	374.2	459.7	545.4	566.7	1143.2	1911.9	2296.3	2560.8	3089.7	3486.4	3460.4
107.5°	461.2	541.0	620.7	640.7	1149.1	1826.9	2165.8	2534.7	3272.5	3825.8	3832.1
110°	520.0	592.0	664.1	682.0	1140.4	1751.5	2057.0	2469.4	3294.2	3912.8	3939.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	577.6	646.3	714.9	732.1	1140.7	1685.6	1958.0	2380.0	3224.2	3857.3	3898.9
115°	664.7	728.0	791.3	807.2	1151.3	1610.0	1839.5	2246.0	3059.2	3669.1	3726.7
117.5°	750.6	808.1	865.7	880.1	1172.6	1562.8	1757.8	2124.8	2858.7	3409.1	3473.0
120°	800.6	854.8	908.9	922.4	1190.1	1546.8	1725.2	2060.5	2731.1	3234.0	3296.1
122.5°	849.5	904.2	958.8	972.5	1215.1	1538.5	1700.2	2002.1	2606.0	3058.8	3120.1
125°	924.6	974.4	1024.2	1036.7	1248.8	1531.6	1673.0	1929.5	2442.4	2827.1	2883.6
127.5°	985.6	1035.8	1086.1	1098.7	1282.5	1527.6	1650.1	1870.3	2310.8	2641.1	2688.7
130°	1018.2	1072.3	1126.5	1140.0	1307.2	1530.0	1641.4	1837.5	2229.6	2523.7	2567.7
132.5°	1051.9	1106.1	1160.2	1173.8	1327.1	1531.6	1633.8	1809.3	2160.3	2423.6	2463.0
135°	1101.9	1151.3	1200.6	1212.9	1348.9	1530.2	1620.8	1767.8	2061.7	2282.2	2316.1
137.5°	1153.1	1201.9	1250.7	1262.9	1381.5	1539.6	1618.7	1742.9	1991.4	2177.7	2205.5
140°	1195.5	1240.5	1285.4	1296.6	1401.4	1541.1	1611.0	1718.3	1933.0	2094.0	2120.0
142.5°	1228.1	1269.7	1311.3	1321.7	1418.1	1546.7	1611.0	1705.3	1893.8	2035.2	2057.6
145°	1278.1	1314.4	1350.7	1359.8	1439.9	1546.7	1600.1	1677.2	1831.4	1947.2	1964.1
147.5°	1328.2	1363.5	1398.8	1407.6	1471.8	1557.4	1600.1	1660.8	1782.1	1873.1	1887.2
150°	1360.8	1392.7	1424.6	1432.6	1488.4	1562.9	1600.1	1651.4	1753.8	1830.7	1842.1
152.5°	1394.6	1418.7	1443.0	1449.0	1499.4	1566.5	1600.1	1643.9	1731.3	1797.0	1805.5
155°	1444.6	1462.5	1480.4	1484.8	1523.3	1574.5	1600.1	1634.9	1704.6	1756.8	1762.5
157.5°	1481.6	1499.0	1516.4	1520.7	1547.2	1582.5	1600.1	1627.2	1681.4	1722.0	1726.0
160°	1506.6	1520.1	1533.6	1537.0	1558.1	1586.1	1600.1	1623.3	1669.8	1704.6	1706.8
162.5°	1531.6	1541.8	1552.0	1554.5	1569.7	1590.0	1600.1	1619.7	1658.9	1688.3	1690.4
165°	1558.8	1567.9	1577.2	1579.4	1586.3	1595.5	1600.1	1614.1	1642.2	1663.2	1665.5
167.5°	1583.8	1588.1	1592.5	1593.6	1599.4	1607.2	1611.0	1620.2	1638.6	1652.3	1653.3
170°	1600.1	1604.5	1608.8	1609.9	1610.3	1610.7	1611.0	1620.2	1638.6	1652.3	1652.3
172.5°	1608.8	1609.8	1610.7	1611.0	1611.0	1611.0	1611.0	1618.2	1632.7	1643.6	1642.7
175°	1620.8	1620.8	1620.8	1620.8	1617.5	1613.2	1611.0	1615.6	1624.8	1631.7	1631.7
177.5°	1620.8	1620.8	1620.8	1620.8	1618.2	1614.8	1613.2	1616.8	1624.1	1629.5	1628.5
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1267.9	1264.4	1267.9	1265.6	1266.7	1263.2	1252.7	1249.2	1252.7	1256.3	1256.3
5°	1283.1	1280.8	1283.1	1283.1	1282.0	1279.6	1267.9	1265.6	1267.9	1269.1	1266.7
7.5°	1287.8	1284.3	1287.8	1285.5	1285.5	1283.1	1271.4	1269.1	1270.3	1273.8	1270.3
10°	1287.8	1284.3	1287.8	1286.6	1285.5	1283.1	1271.4	1266.7	1266.7	1270.3	1266.7
12.5°	1282.0	1279.6	1282.0	1279.6	1279.6	1277.3	1265.6	1260.9	1262.1	1263.2	1258.5
15°	1272.6	1269.1	1272.6	1270.3	1271.4	1267.9	1255.0	1250.4	1250.4	1252.7	1244.5
17.5°	1258.5	1253.9	1258.5	1257.4	1256.3	1253.9	1242.2	1237.5	1236.4	1237.5	1231.7
20°	1242.2	1238.6	1242.2	1241.0	1241.0	1236.4	1224.6	1218.8	1218.8	1218.8	1212.9
22.5°	1216.5	1212.9	1216.5	1218.8	1218.8	1217.6	1207.1	1198.9	1196.6	1196.6	1189.5
25°	1187.2	1183.7	1187.2	1187.2	1186.1	1187.2	1183.7	1179.0	1175.5	1172.0	1165.0
27.5°	1159.1	1156.8	1159.1	1156.8	1159.1	1155.6	1154.5	1153.3	1148.6	1145.1	1135.7
30°	1131.0	1128.8	1131.0	1128.8	1126.4	1124.1	1118.2	1115.9	1120.6	1118.2	1103.0
32.5°	1096.0	1093.6	1096.0	1096.0	1093.6	1093.6	1084.3	1080.8	1081.9	1089.0	1075.0
35°	1059.7	1056.2	1059.7	1058.6	1059.7	1056.2	1050.4	1049.2	1044.5	1052.7	1042.2
37.5°	1017.6	1014.1	1017.6	1017.6	1017.6	1019.9	1015.3	1011.7	1004.8	1015.3	1007.1
40°	974.3	969.6	974.3	973.2	974.3	976.7	974.3	972.0	965.0	973.2	966.1
42.5°	925.2	924.0	925.2	926.4	926.4	931.1	934.6	929.8	927.6	921.7	926.4
45°	872.6	870.2	872.6	874.9	876.0	878.4	889.0	889.0	885.5	876.0	883.1
47.5°	816.4	810.6	816.4	823.5	823.5	826.9	837.5	845.7	839.9	828.1	831.7
50°	756.8	758.0	756.8	761.5	761.5	774.3	782.5	790.7	796.5	782.5	766.2
52.5°	698.3	697.1	698.3	701.8	706.4	712.4	726.4	734.5	743.9	735.7	710.0
55°	639.8	642.2	639.8	640.9	643.3	646.8	667.9	676.1	693.6	683.1	656.2
57.5°	581.3	577.8	581.3	583.7	584.9	588.4	605.9	621.1	631.6	632.7	600.0
60°	513.5	508.8	513.5	524.0	526.4	528.7	545.0	559.1	568.5	572.0	538.0
62.5°	453.8	445.6	453.8	460.9	465.5	471.3	483.1	504.1	512.3	513.5	465.5
65°	390.7	387.2	390.7	404.7	405.8	412.9	425.7	441.0	458.5	456.2	387.2
67.5°	333.4	333.4	333.4	342.7	349.8	353.3	369.7	376.6	398.9	401.2	322.8
70°	280.7	279.6	280.7	287.8	292.4	300.6	315.9	324.0	341.6	347.4	262.0
72.5°	230.4	229.3	230.4	236.2	240.9	248.0	260.8	270.2	285.4	292.4	203.5
75°	186.0	183.7	186.0	190.6	189.5	198.8	209.4	218.7	232.7	237.5	150.9
77.5°	142.7	142.7	142.7	147.4	147.4	156.7	161.4	173.1	181.3	188.4	111.1
80°	106.5	105.3	106.5	107.6	107.6	112.3	120.5	128.6	135.7	135.7	76.0
82.5°	74.8	72.6	74.8	74.8	74.8	77.2	81.9	84.2	88.9	92.4	48.0
85°	46.8	46.8	46.8	48.0	46.8	49.1	50.3	52.7	52.7	50.3	29.2
87.5°	30.4	29.2	30.4	29.2	29.2	28.1	28.1	28.1	26.9	25.7	16.4
90°	41.3	41.3	41.3	41.3	41.3	55.1	73.5	82.7	71.1	47.9	30.4
92.5°	165.6	132.7	165.6	198.5	206.7	293.0	408.0	465.6	408.8	295.2	210.0
95°	577.1	477.5	577.1	676.7	701.6	921.4	1214.3	1360.8	1149.3	726.2	409.0
97.5°	1382.8	1193.3	1382.8	1572.4	1619.7	1758.6	1943.8	2036.4	1683.7	978.3	449.3
100°	1992.3	1766.6	1992.3	2218.1	2274.5	2264.4	2250.9	2244.1	1852.7	1070.1	483.0
102.5°	2591.9	2398.6	2591.9	2785.4	2833.7	2656.7	2420.9	2302.9	1905.9	1112.1	516.7
105°	3356.5	3252.5	3356.5	3460.4	3486.4	3089.7	2560.8	2296.3	1911.9	1143.2	566.7
107.5°	3857.2	3882.3	3857.2	3832.1	3825.8	3272.5	2534.7	2165.8	1826.9	1149.1	640.7
110°	4048.2	4156.5	4048.2	3939.8	3912.8	3294.2	2469.4	2057.0	1751.5	1140.4	682.0





TEST NUMBER: P935844

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4065.2	4231.5	4065.2	3898.9	3857.3	3224.2	2380.0	1958.0	1685.6	1140.7	732.1
115°	3957.4	4187.9	3957.4	3726.7	3669.1	3059.2	2246.0	1839.5	1610.0	1151.3	807.2
117.5°	3728.8	3984.6	3728.8	3473.0	3409.1	2858.7	2124.8	1757.8	1562.8	1172.6	880.1
120°	3544.6	3793.1	3544.6	3296.1	3234.0	2731.1	2060.5	1725.2	1546.8	1190.1	922.4
122.5°	3365.3	3610.4	3365.3	3120.1	3058.8	2606.0	2002.1	1700.2	1538.5	1215.1	972.5
125°	3109.4	3335.2	3109.4	2883.6	2827.1	2442.4	1929.5	1673.0	1531.6	1248.8	1036.7
127.5°	2879.3	3069.7	2879.3	2688.7	2641.1	2310.8	1870.3	1650.1	1527.6	1282.5	1098.7
130°	2743.7	2919.7	2743.7	2567.7	2523.7	2229.6	1837.5	1641.4	1530.0	1307.2	1140.0
132.5°	2620.5	2778.2	2620.5	2463.0	2423.6	2160.3	1809.3	1633.8	1531.6	1327.1	1173.8
135°	2452.0	2587.8	2452.0	2316.1	2282.2	2061.7	1767.8	1620.8	1530.2	1348.9	1212.9
137.5°	2316.7	2427.9	2316.7	2205.5	2177.7	1991.4	1742.9	1618.7	1539.6	1381.5	1262.9
140°	2223.9	2327.9	2223.9	2120.0	2094.0	1933.0	1718.3	1611.0	1541.1	1401.4	1296.6
142.5°	2147.0	2236.5	2147.0	2057.6	2035.2	1893.8	1705.3	1611.0	1546.7	1418.1	1321.7
145°	2031.8	2099.4	2031.8	1964.1	1947.2	1831.4	1677.2	1600.1	1546.7	1439.9	1359.8
147.5°	1943.2	1999.3	1943.2	1887.2	1873.1	1782.1	1660.8	1600.1	1557.4	1471.8	1407.6
150°	1887.6	1933.0	1887.6	1842.1	1830.7	1753.8	1651.4	1600.1	1562.9	1488.4	1432.6
152.5°	1839.9	1874.3	1839.9	1805.5	1797.0	1731.3	1643.9	1600.1	1566.5	1499.4	1449.0
155°	1785.2	1807.9	1785.2	1762.5	1756.8	1704.6	1634.9	1600.1	1574.5	1523.3	1484.8
157.5°	1741.9	1757.8	1741.9	1726.0	1722.0	1681.4	1627.2	1600.1	1582.5	1547.2	1520.7
160°	1716.1	1725.2	1716.1	1706.8	1704.6	1669.8	1623.3	1600.1	1586.1	1558.1	1537.0
162.5°	1699.1	1707.8	1699.1	1690.4	1688.3	1658.9	1619.7	1600.1	1590.0	1569.7	1554.5
165°	1674.7	1683.9	1674.7	1665.5	1663.2	1642.2	1614.1	1600.1	1595.5	1586.3	1579.4
167.5°	1657.2	1661.1	1657.2	1653.3	1652.3	1638.6	1620.2	1611.0	1607.2	1599.4	1593.6
170°	1652.3	1652.3	1652.3	1652.3	1652.3	1638.6	1620.2	1611.0	1610.7	1610.3	1609.9
172.5°	1639.4	1636.0	1639.4	1642.7	1643.6	1632.7	1618.2	1611.0	1611.0	1611.0	1611.0
175°	1631.7	1631.7	1631.7	1631.7	1631.7	1624.8	1615.6	1611.0	1613.2	1617.5	1620.8
177.5°	1624.6	1620.8	1624.6	1628.5	1629.5	1624.1	1616.8	1613.2	1614.8	1618.2	1620.8
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



TEST NUMBER: P935844

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1253.9	1246.8	1246.8	1235.1	1230.5	1227.0	1221.1	1203.6	1198.9	1194.3	1201.2
5°	1264.4	1251.5	1242.2	1221.1	1203.6	1196.6	1174.4	1132.2	1104.2	1083.1	1071.4
7.5°	1266.7	1250.4	1232.8	1200.1	1158.0	1139.2	1071.4	994.2	973.2	954.4	942.8
10°	1264.4	1245.7	1221.1	1172.0	1072.6	1039.8	972.0	921.7	908.8	905.3	908.8
12.5°	1256.3	1238.6	1204.7	1122.9	983.7	961.5	921.7	892.4	890.1	895.9	927.6
15°	1242.2	1225.8	1186.1	1057.3	934.6	918.2	890.1	879.6	892.4	933.4	1028.1
17.5°	1228.2	1209.4	1160.3	993.1	897.1	885.5	865.6	886.6	959.2	1014.1	1045.7
20°	1209.4	1187.2	1131.0	946.2	870.2	859.7	850.3	945.1	1000.0	1019.9	1037.5
22.5°	1187.2	1163.8	1091.3	913.5	842.1	834.0	839.9	977.8	1000.0	1014.1	1029.3
25°	1158.0	1138.1	1044.5	887.8	820.0	810.6	832.8	974.3	987.2	990.7	1021.2
27.5°	1131.0	1105.3	995.4	864.4	793.0	789.5	838.6	959.2	968.5	972.0	1004.8
30°	1098.3	1059.7	940.4	839.9	764.9	763.8	839.9	940.4	938.0	947.5	980.2
32.5°	1064.4	991.9	878.4	809.4	738.1	736.9	831.7	912.3	910.0	922.9	947.5
35°	1032.8	939.3	794.2	774.3	704.2	705.3	811.8	879.6	880.8	892.4	907.7
37.5°	1000.0	893.7	701.8	735.7	671.4	671.4	784.8	849.2	846.8	850.3	871.4
40°	961.5	822.2	619.9	685.4	640.9	637.5	752.1	816.4	808.2	807.1	836.3
42.5°	920.5	743.9	559.1	618.8	605.9	601.2	712.4	776.6	761.5	764.9	802.4
45°	876.0	722.8	512.3	522.9	569.6	566.1	669.0	731.0	720.5	729.9	768.4
47.5°	831.7	680.7	497.1	433.9	531.1	529.8	621.1	686.6	680.7	690.1	731.0
50°	770.8	634.0	495.9	371.9	487.7	492.4	563.8	643.3	643.3	651.5	694.7
52.5°	692.5	576.7	450.3	336.9	437.4	451.5	513.5	605.9	608.2	616.4	655.0
55°	621.1	517.0	417.5	309.9	377.8	408.2	464.4	567.3	572.0	580.2	615.2
57.5°	555.6	430.4	410.6	278.4	322.8	352.0	421.1	529.8	532.2	539.2	573.1
60°	485.4	311.1	376.6	244.4	274.9	297.1	381.3	485.4	493.6	498.3	527.5
62.5°	405.8	225.8	341.6	221.1	251.5	256.1	348.6	443.3	453.8	457.4	474.9
65°	288.9	189.5	290.0	201.2	226.9	228.1	313.5	400.0	409.4	415.3	428.1
67.5°	195.3	154.4	221.1	182.4	208.2	209.4	279.6	349.8	362.6	367.3	375.5
70°	135.7	102.9	163.8	162.5	187.1	189.5	243.3	304.1	315.9	319.3	324.0
72.5°	99.4	83.0	135.7	146.2	164.9	167.3	205.9	252.6	264.3	267.9	270.2
75°	76.0	87.7	110.0	127.5	140.4	141.5	168.4	205.9	214.1	216.4	217.6
77.5°	60.8	81.9	80.8	102.9	114.6	112.3	132.2	159.1	166.1	166.1	166.1
80°	45.6	64.4	60.8	73.7	84.2	81.9	94.7	113.5	115.8	118.2	116.9
82.5°	33.9	40.9	40.9	46.8	56.2	53.8	63.1	73.7	73.7	73.7	76.0
85°	21.0	23.4	18.7	24.6	31.6	30.4	35.1	39.8	40.9	40.9	38.6
87.5°	12.9	10.6	5.8	9.3	14.0	14.0	16.4	17.5	16.4	16.4	16.4
90°	28.3	19.6	10.9	19.6	28.3	30.4	47.9	71.1	82.7	73.5	55.1
92.5°	191.5	117.5	43.5	117.5	191.5	210.0	295.2	408.8	465.6	408.0	293.0
95°	375.1	239.8	104.5	239.8	375.1	409.0	726.2	1149.3	1360.8	1214.3	921.4
97.5°	419.4	300.0	180.6	300.0	419.4	449.3	978.3	1683.7	2036.4	1943.8	1758.6
100°	455.9	347.6	239.3	347.6	455.9	483.0	1070.1	1852.7	2244.1	2250.9	2264.4
102.5°	491.4	390.4	289.3	390.4	491.4	516.7	1112.1	1905.9	2302.9	2420.9	2656.7
105°	545.4	459.7	374.2	459.7	545.4	566.7	1143.2	1911.9	2296.3	2560.8	3089.7
107.5°	620.7	541.0	461.2	541.0	620.7	640.7	1149.1	1826.9	2165.8	2534.7	3272.5
110°	664.1	592.0	520.0	592.0	664.1	682.0	1140.4	1751.5	2057.0	2469.4	3294.2



TEST NUMBER: P935844

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	714.9	646.3	577.6	646.3	714.9	732.1	1140.7	1685.6	1958.0	2380.0	3224.2
115°	791.3	728.0	664.7	728.0	791.3	807.2	1151.3	1610.0	1839.5	2246.0	3059.2
117.5°	865.7	808.1	750.6	808.1	865.7	880.1	1172.6	1562.8	1757.8	2124.8	2858.7
120°	908.9	854.8	800.6	854.8	908.9	922.4	1190.1	1546.8	1725.2	2060.5	2731.1
122.5°	958.8	904.2	849.5	904.2	958.8	972.5	1215.1	1538.5	1700.2	2002.1	2606.0
125°	1024.2	974.4	924.6	974.4	1024.2	1036.7	1248.8	1531.6	1673.0	1929.5	2442.4
127.5°	1086.1	1035.8	985.6	1035.8	1086.1	1098.7	1282.5	1527.6	1650.1	1870.3	2310.8
130°	1126.5	1072.3	1018.2	1072.3	1126.5	1140.0	1307.2	1530.0	1641.4	1837.5	2229.6
132.5°	1160.2	1106.1	1051.9	1106.1	1160.2	1173.8	1327.1	1531.6	1633.8	1809.3	2160.3
135°	1200.6	1151.3	1101.9	1151.3	1200.6	1212.9	1348.9	1530.2	1620.8	1767.8	2061.7
137.5°	1250.7	1201.9	1153.1	1201.9	1250.7	1262.9	1381.5	1539.6	1618.7	1742.9	1991.4
140°	1285.4	1240.5	1195.5	1240.5	1285.4	1296.6	1401.4	1541.1	1611.0	1718.3	1933.0
142.5°	1311.3	1269.7	1228.1	1269.7	1311.3	1321.7	1418.1	1546.7	1611.0	1705.3	1893.8
145°	1350.7	1314.4	1278.1	1314.4	1350.7	1359.8	1439.9	1546.7	1600.1	1677.2	1831.4
147.5°	1398.8	1363.5	1328.2	1363.5	1398.8	1407.6	1471.8	1557.4	1600.1	1660.8	1782.1
150°	1424.6	1392.7	1360.8	1392.7	1424.6	1432.6	1488.4	1562.9	1600.1	1651.4	1753.8
152.5°	1443.0	1418.7	1394.6	1418.7	1443.0	1449.0	1499.4	1566.5	1600.1	1643.9	1731.3
155°	1480.4	1462.5	1444.6	1462.5	1480.4	1484.8	1523.3	1574.5	1600.1	1634.9	1704.6
157.5°	1516.4	1499.0	1481.6	1499.0	1516.4	1520.7	1547.2	1582.5	1600.1	1627.2	1681.4
160°	1533.6	1520.1	1506.6	1520.1	1533.6	1537.0	1558.1	1586.1	1600.1	1623.3	1669.8
162.5°	1552.0	1541.8	1531.6	1541.8	1552.0	1554.5	1569.7	1590.0	1600.1	1619.7	1658.9
165°	1577.2	1567.9	1558.8	1567.9	1577.2	1579.4	1586.3	1595.5	1600.1	1614.1	1642.2
167.5°	1592.5	1588.1	1583.8	1588.1	1592.5	1593.6	1599.4	1607.2	1611.0	1620.2	1638.6
170°	1608.8	1604.5	1600.1	1604.5	1608.8	1609.9	1610.3	1610.7	1611.0	1620.2	1638.6
172.5°	1610.7	1609.8	1608.8	1609.8	1610.7	1611.0	1611.0	1611.0	1611.0	1618.2	1632.7
175°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1617.5	1613.2	1611.0	1615.6	1624.8
177.5°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1618.2	1614.8	1613.2	1616.8	1624.1
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



TEST NUMBER: P935844

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1193.0	1189.5	1194.3	1181.3	1194.3	1189.5	1193.0	1201.2	1194.3	1198.9	1203.6
5°	1046.9	1041.0	1022.3	1007.1	1022.3	1041.0	1046.9	1071.4	1083.1	1104.2	1132.2
7.5°	935.7	931.1	926.4	917.0	926.4	931.1	935.7	942.8	954.4	973.2	994.2
10°	911.2	912.3	919.4	918.2	919.4	912.3	911.2	908.8	905.3	908.8	921.7
12.5°	974.3	984.9	1023.4	1021.2	1023.4	984.9	974.3	927.6	895.9	890.1	892.4
15°	1046.9	1050.4	1058.6	1059.7	1058.6	1050.4	1046.9	1028.1	933.4	892.4	879.6
17.5°	1053.9	1055.1	1060.9	1060.9	1060.9	1055.1	1053.9	1045.7	1014.1	959.2	886.6
20°	1048.0	1050.4	1062.1	1064.4	1062.1	1050.4	1048.0	1037.5	1019.9	1000.0	945.1
22.5°	1045.7	1050.4	1059.7	1058.6	1059.7	1050.4	1045.7	1029.3	1014.1	1000.0	977.8
25°	1034.0	1034.0	1035.2	1036.3	1035.2	1034.0	1034.0	1021.2	990.7	987.2	974.3
27.5°	1009.4	1011.7	1018.8	1017.6	1018.8	1011.7	1009.4	1004.8	972.0	968.5	959.2
30°	987.2	984.9	979.0	974.3	979.0	984.9	987.2	980.2	947.5	938.0	940.4
32.5°	949.7	943.9	938.0	934.6	938.0	943.9	949.7	947.5	922.9	910.0	912.3
35°	905.3	906.5	905.3	901.8	905.3	906.5	905.3	907.7	892.4	880.8	879.6
37.5°	873.8	876.0	874.9	870.2	874.9	876.0	873.8	871.4	850.3	846.8	849.2
40°	841.0	842.1	841.0	837.5	841.0	842.1	841.0	836.3	807.1	808.2	816.4
42.5°	809.4	808.2	804.7	802.4	804.7	808.2	809.4	802.4	764.9	761.5	776.6
45°	773.1	774.3	767.3	763.8	767.3	774.3	773.1	768.4	729.9	720.5	731.0
47.5°	736.9	736.9	731.0	727.5	731.0	736.9	736.9	731.0	690.1	680.7	686.6
50°	698.3	697.1	688.9	687.8	688.9	697.1	698.3	694.7	651.5	643.3	643.3
52.5°	653.9	653.9	655.0	657.3	655.0	653.9	653.9	655.0	616.4	608.2	605.9
55°	615.2	616.4	624.6	626.9	624.6	616.4	615.2	615.2	580.2	572.0	567.3
57.5°	575.5	575.5	581.3	581.3	581.3	575.5	575.5	573.1	539.2	532.2	529.8
60°	529.8	532.2	536.9	535.7	536.9	532.2	529.8	527.5	498.3	493.6	485.4
62.5°	481.9	484.2	485.4	483.1	485.4	484.2	481.9	474.9	457.4	453.8	443.3
65°	431.6	433.9	435.1	432.8	435.1	433.9	431.6	428.1	415.3	409.4	400.0
67.5°	380.1	379.0	377.8	382.5	377.8	379.0	380.1	375.5	367.3	362.6	349.8
70°	327.5	327.5	326.3	328.7	326.3	327.5	327.5	324.0	319.3	315.9	304.1
72.5°	271.4	270.2	274.9	271.4	274.9	270.2	271.4	270.2	267.9	264.3	252.6
75°	216.4	218.7	216.4	219.9	216.4	218.7	216.4	217.6	216.4	214.1	205.9
77.5°	164.9	167.3	164.9	164.9	164.9	167.3	164.9	166.1	166.1	166.1	159.1
80°	116.9	115.8	115.8	114.6	115.8	115.8	116.9	116.9	118.2	115.8	113.5
82.5°	74.8	73.7	73.7	76.0	73.7	73.7	74.8	76.0	73.7	73.7	73.7
85°	40.9	42.1	39.8	39.8	39.8	42.1	40.9	38.6	40.9	40.9	39.8
87.5°	15.2	14.0	14.0	14.0	14.0	14.0	15.2	16.4	16.4	16.4	17.5
90°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	55.1	73.5	82.7	71.1
92.5°	206.7	198.5	165.6	132.7	165.6	198.5	206.7	293.0	408.0	465.6	408.8
95°	701.6	676.7	577.1	477.5	577.1	676.7	701.6	921.4	1214.3	1360.8	1149.3
97.5°	1619.7	1572.4	1382.8	1193.3	1382.8	1572.4	1619.7	1758.6	1943.8	2036.4	1683.7
100°	2274.5	2218.1	1992.3	1766.6	1992.3	2218.1	2274.5	2264.4	2250.9	2244.1	1852.7
102.5°	2833.7	2785.4	2591.9	2398.6	2591.9	2785.4	2833.7	2656.7	2420.9	2302.9	1905.9
105°	3486.4	3460.4	3356.5	3252.5	3356.5	3460.4	3486.4	3089.7	2560.8	2296.3	1911.9
107.5°	3825.8	3832.1	3857.2	3882.3	3857.2	3832.1	3825.8	3272.5	2534.7	2165.8	1826.9
110°	3912.8	3939.8	4048.2	4156.5	4048.2	3939.8	3912.8	3294.2	2469.4	2057.0	1751.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3857.3	3898.9	4065.2	4231.5	4065.2	3898.9	3857.3	3224.2	2380.0	1958.0	1685.6
115°	3669.1	3726.7	3957.4	4187.9	3957.4	3726.7	3669.1	3059.2	2246.0	1839.5	1610.0
117.5°	3409.1	3473.0	3728.8	3984.6	3728.8	3473.0	3409.1	2858.7	2124.8	1757.8	1562.8
120°	3234.0	3296.1	3544.6	3793.1	3544.6	3296.1	3234.0	2731.1	2060.5	1725.2	1546.8
122.5°	3058.8	3120.1	3365.3	3610.4	3365.3	3120.1	3058.8	2606.0	2002.1	1700.2	1538.5
125°	2827.1	2883.6	3109.4	3335.2	3109.4	2883.6	2827.1	2442.4	1929.5	1673.0	1531.6
127.5°	2641.1	2688.7	2879.3	3069.7	2879.3	2688.7	2641.1	2310.8	1870.3	1650.1	1527.6
130°	2523.7	2567.7	2743.7	2919.7	2743.7	2567.7	2523.7	2229.6	1837.5	1641.4	1530.0
132.5°	2423.6	2463.0	2620.5	2778.2	2620.5	2463.0	2423.6	2160.3	1809.3	1633.8	1531.6
135°	2282.2	2316.1	2452.0	2587.8	2452.0	2316.1	2282.2	2061.7	1767.8	1620.8	1530.2
137.5°	2177.7	2205.5	2316.7	2427.9	2316.7	2205.5	2177.7	1991.4	1742.9	1618.7	1539.6
140°	2094.0	2120.0	2223.9	2327.9	2223.9	2120.0	2094.0	1933.0	1718.3	1611.0	1541.1
142.5°	2035.2	2057.6	2147.0	2236.5	2147.0	2057.6	2035.2	1893.8	1705.3	1611.0	1546.7
145°	1947.2	1964.1	2031.8	2099.4	2031.8	1964.1	1947.2	1831.4	1677.2	1600.1	1546.7
147.5°	1873.1	1887.2	1943.2	1999.3	1943.2	1887.2	1873.1	1782.1	1660.8	1600.1	1557.4
150°	1830.7	1842.1	1887.6	1933.0	1887.6	1842.1	1830.7	1753.8	1651.4	1600.1	1562.9
152.5°	1797.0	1805.5	1839.9	1874.3	1839.9	1805.5	1797.0	1731.3	1643.9	1600.1	1566.5
155°	1756.8	1762.5	1785.2	1807.9	1785.2	1762.5	1756.8	1704.6	1634.9	1600.1	1574.5
157.5°	1722.0	1726.0	1741.9	1757.8	1741.9	1726.0	1722.0	1681.4	1627.2	1600.1	1582.5
160°	1704.6	1706.8	1716.1	1725.2	1716.1	1706.8	1704.6	1669.8	1623.3	1600.1	1586.1
162.5°	1688.3	1690.4	1699.1	1707.8	1699.1	1690.4	1688.3	1658.9	1619.7	1600.1	1590.0
165°	1663.2	1665.5	1674.7	1683.9	1674.7	1665.5	1663.2	1642.2	1614.1	1600.1	1595.5
167.5°	1652.3	1653.3	1657.2	1661.1	1657.2	1653.3	1652.3	1638.6	1620.2	1611.0	1607.2
170°	1652.3	1652.3	1652.3	1652.3	1652.3	1652.3	1652.3	1638.6	1620.2	1611.0	1610.7
172.5°	1643.6	1642.7	1639.4	1636.0	1639.4	1642.7	1643.6	1632.7	1618.2	1611.0	1611.0
175°	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1624.8	1615.6	1611.0	1613.2
177.5°	1629.5	1628.5	1624.6	1620.8	1624.6	1628.5	1629.5	1624.1	1616.8	1613.2	1614.8
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1221.1	1227.0	1230.5	1235.1	1246.8
5°	1174.4	1196.6	1203.6	1221.1	1242.2
7.5°	1071.4	1139.2	1158.0	1200.1	1232.8
10°	972.0	1039.8	1072.6	1172.0	1221.1
12.5°	921.7	961.5	983.7	1122.9	1204.7
15°	890.1	918.2	934.6	1057.3	1186.1
17.5°	865.6	885.5	897.1	993.1	1160.3
20°	850.3	859.7	870.2	946.2	1131.0
22.5°	839.9	834.0	842.1	913.5	1091.3
25°	832.8	810.6	820.0	887.8	1044.5
27.5°	838.6	789.5	793.0	864.4	995.4
30°	839.9	763.8	764.9	839.9	940.4
32.5°	831.7	736.9	738.1	809.4	878.4
35°	811.8	705.3	704.2	774.3	794.2
37.5°	784.8	671.4	671.4	735.7	701.8
40°	752.1	637.5	640.9	685.4	619.9
42.5°	712.4	601.2	605.9	618.8	559.1
45°	669.0	566.1	569.6	522.9	512.3
47.5°	621.1	529.8	531.1	433.9	497.1
50°	563.8	492.4	487.7	371.9	495.9
52.5°	513.5	451.5	437.4	336.9	450.3
55°	464.4	408.2	377.8	309.9	417.5
57.5°	421.1	352.0	322.8	278.4	410.6
60°	381.3	297.1	274.9	244.4	376.6
62.5°	348.6	256.1	251.5	221.1	341.6
65°	313.5	228.1	226.9	201.2	290.0
67.5°	279.6	209.4	208.2	182.4	221.1
70°	243.3	189.5	187.1	162.5	163.8
72.5°	205.9	167.3	164.9	146.2	135.7
75°	168.4	141.5	140.4	127.5	110.0
77.5°	132.2	112.3	114.6	102.9	80.8
80°	94.7	81.9	84.2	73.7	60.8
82.5°	63.1	53.8	56.2	46.8	40.9
85°	35.1	30.4	31.6	24.6	18.7
87.5°	16.4	14.0	14.0	9.3	5.8
90°	47.9	30.4	28.3	19.6	10.9
92.5°	295.2	210.0	191.5	117.5	43.5
95°	726.2	409.0	375.1	239.8	104.5
97.5°	978.3	449.3	419.4	300.0	180.6
100°	1070.1	483.0	455.9	347.6	239.3
102.5°	1112.1	516.7	491.4	390.4	289.3
105°	1143.2	566.7	545.4	459.7	374.2
107.5°	1149.1	640.7	620.7	541.0	461.2
110°	1140.4	682.0	664.1	592.0	520.0



TEST NUMBER: P935844

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1140.7	732.1	714.9	646.3	577.6
115°	1151.3	807.2	791.3	728.0	664.7
117.5°	1172.6	880.1	865.7	808.1	750.6
120°	1190.1	922.4	908.9	854.8	800.6
122.5°	1215.1	972.5	958.8	904.2	849.5
125°	1248.8	1036.7	1024.2	974.4	924.6
127.5°	1282.5	1098.7	1086.1	1035.8	985.6
130°	1307.2	1140.0	1126.5	1072.3	1018.2
132.5°	1327.1	1173.8	1160.2	1106.1	1051.9
135°	1348.9	1212.9	1200.6	1151.3	1101.9
137.5°	1381.5	1262.9	1250.7	1201.9	1153.1
140°	1401.4	1296.6	1285.4	1240.5	1195.5
142.5°	1418.1	1321.7	1311.3	1269.7	1228.1
145°	1439.9	1359.8	1350.7	1314.4	1278.1
147.5°	1471.8	1407.6	1398.8	1363.5	1328.2
150°	1488.4	1432.6	1424.6	1392.7	1360.8
152.5°	1499.4	1449.0	1443.0	1418.7	1394.6
155°	1523.3	1484.8	1480.4	1462.5	1444.6
157.5°	1547.2	1520.7	1516.4	1499.0	1481.6
160°	1558.1	1537.0	1533.6	1520.1	1506.6
162.5°	1569.7	1554.5	1552.0	1541.8	1531.6
165°	1586.3	1579.4	1577.2	1567.9	1558.8
167.5°	1599.4	1593.6	1592.5	1588.1	1583.8
170°	1610.3	1609.9	1608.8	1604.5	1600.1
172.5°	1611.0	1611.0	1610.7	1609.8	1608.8
175°	1617.5	1620.8	1620.8	1620.8	1620.8
177.5°	1618.2	1620.8	1620.8	1620.8	1620.8
180°	1620.8	1620.8	1620.8	1620.8	1620.8



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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	7.67	8.33	8.82	9.47	11.08	10.50	11.17	11.66	12.31	13.92
	3H	8.13	8.72	9.29	9.87	11.49	11.84	12.43	13.00	13.58	15.20
	4H	8.31	8.87	9.48	10.03	11.65	12.27	12.84	13.45	13.99	15.62
	6H	8.42	8.94	9.60	10.09	11.73	12.55	13.07	13.73	14.22	15.86
	8H	8.41	8.91	9.60	10.08	11.70	12.62	13.11	13.80	14.28	15.91
	12H	8.38	8.85	9.56	10.01	11.66	12.65	13.12	13.84	14.28	15.93
4H	2H	8.68	9.24	9.86	10.39	12.02	10.89	11.45	12.07	12.60	14.23
	3H	9.68	10.16	10.87	11.33	12.97	12.38	12.85	13.56	14.03	15.66
	4H	9.95	10.39	11.14	11.55	13.21	12.90	13.33	14.09	14.50	16.15
	6H	10.07	10.44	11.26	11.62	13.27	13.26	13.63	14.45	14.81	16.46
	8H	10.07	10.41	11.26	11.59	13.25	13.36	13.70	14.55	14.88	16.55
	12H	10.02	10.34	11.23	11.53	13.19	13.41	13.72	14.61	14.91	16.58
8H	4H	10.39	10.74	11.58	11.92	13.58	13.01	13.35	14.20	14.53	16.19
	6H	10.64	10.93	11.85	12.15	13.81	13.44	13.72	14.65	14.94	16.60
	8H	10.68	10.93	11.90	12.13	13.81	13.59	13.84	14.80	15.03	16.71
	12H	10.66	10.88	11.88	12.07	13.78	13.68	13.90	14.90	15.09	16.80
12H	4H	10.39	10.70	11.59	11.89	13.56	12.96	13.28	14.17	14.47	16.13
	6H	10.70	10.95	11.92	12.15	13.83	13.43	13.68	14.65	14.88	16.56
	8H	10.76	10.98	11.98	12.17	13.89	13.59	13.80	14.80	15.00	16.71