

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: P935465

Luminaire Tested: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935465
REPORT IS A COMBINATION OF REPORTS P933756 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

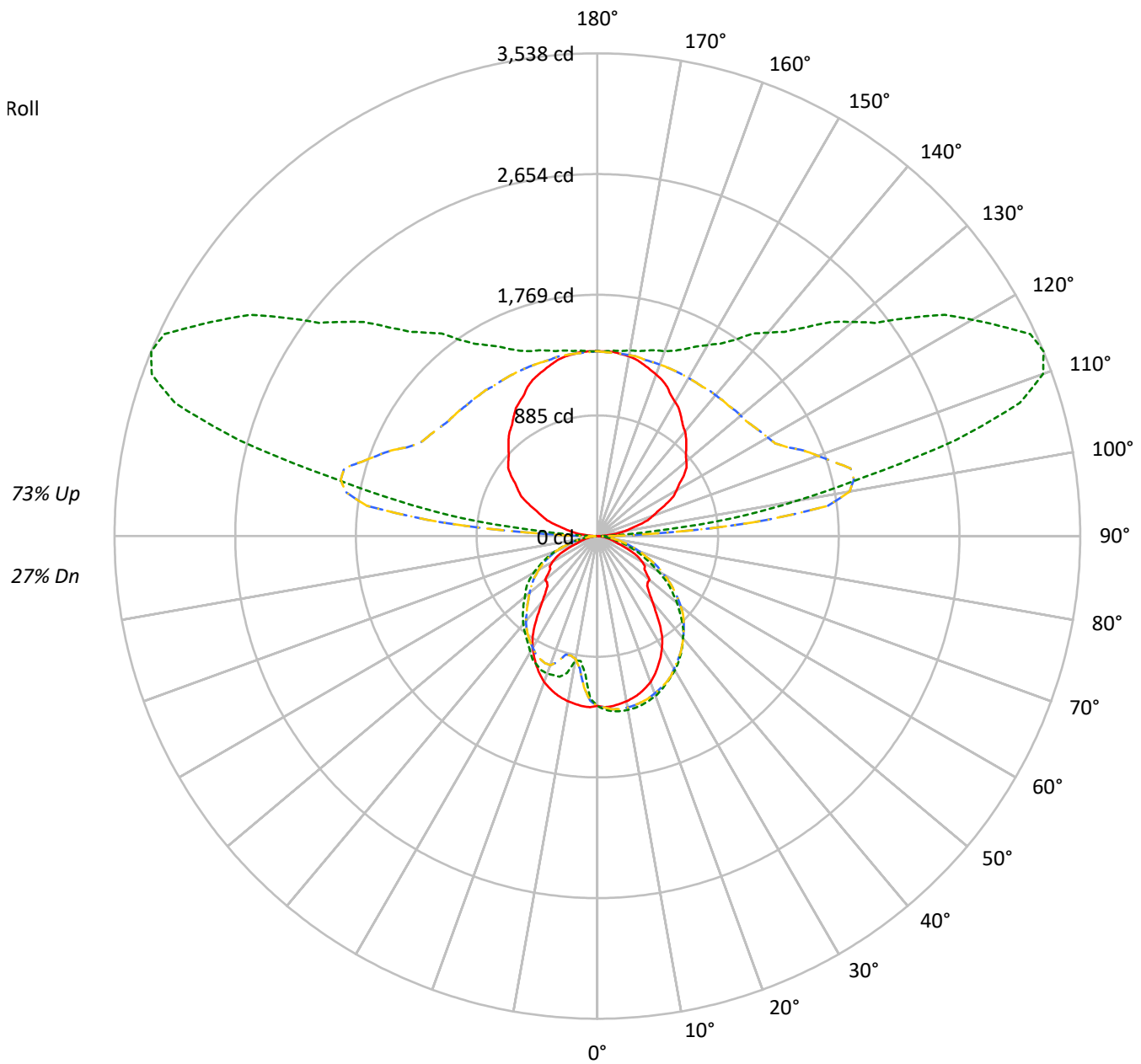
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12018.7 lumens
Efficiency: N/A
Efficacy: 126.2 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): 95.2
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

TEST NUMBER: P935465
CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K

Luminous Intensity Polar Plot



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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	0.9
10°-20°	319.1	2.7
20°-30°	493.3	4.1
30°-40°	588.9	4.9
40°-50°	592.4	4.9
50°-60°	515.4	4.3
60°-70°	365.5	3.0
70°-80°	193.3	1.6
80°-90°	53.3	0.4
90°-100°	660.6	5.5
100°-110°	1736.7	14.4
110°-120°	1800.7	15.0
120°-130°	1444.4	12.0
130°-140°	1133.3	9.4
140°-150°	869.9	7.2
150°-160°	626.5	5.2
160°-170°	383.3	3.2
170°-180°	129.5	1.1
0°-30°	924.9	7.7
0°-40°	1513.8	12.6
0°-60°	2621.7	21.8
0°-90°	3233.8	26.9
90°-120°	4198.0	34.9
90°-150°	7645.6	63.6
90°-180°	8785.0	73.1
0°-180°	12018.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1245	1245	1245	1245	1245	
5°	1251	1290	1251	1014	1251	119
15°	1195	1278	1195	1067	1195	336
25°	1052	1192	1052	1044	1052	483
35°	800	1064	800	908	800	495
45°	516	876	516	769	516	413
55°	420	647	420	631	420	386
65°	292	390	292	436	292	279
75°	111	185	111	222	111	116
85°	19	47	19	40	19	25
90°	9	34	9	34	9	8
95°	87	399	87	399	87	97
105°	313	2719	313	2719	313	332
115°	556	3502	556	3502	556	549
125°	773	2788	773	2788	773	686
135°	921	2164	921	2164	921	713
145°	1069	1755	1069	1755	1069	669
155°	1208	1512	1208	1512	1208	555
165°	1303	1408	1303	1408	1303	368
175°	1355	1364	1355	1364	1355	129
180°	1355	1355	1355	1355	1355	



TEST NUMBER: P935465

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1255.8	1255.8	1262.9	1265.3	1265.3	1261.7	1258.2	1261.7	1272.3	1275.8	1274.7
5°	1251.1	1260.5	1273.5	1275.8	1278.2	1277.0	1274.7	1277.0	1288.8	1291.2	1292.3
7.5°	1241.7	1259.4	1275.8	1279.4	1282.9	1279.4	1278.2	1280.6	1292.3	1294.7	1294.7
10°	1229.9	1254.7	1273.5	1275.8	1279.4	1275.8	1275.8	1280.6	1292.3	1294.7	1295.8
12.5°	1213.4	1247.5	1265.3	1267.6	1272.3	1271.2	1269.9	1274.7	1286.4	1288.8	1288.8
15°	1194.6	1234.6	1251.1	1253.4	1261.7	1259.4	1259.4	1264.1	1277.0	1280.6	1279.4
17.5°	1168.7	1218.1	1237.0	1240.5	1246.4	1245.3	1246.4	1251.1	1262.9	1265.3	1266.4
20°	1139.2	1195.7	1218.1	1221.6	1227.5	1227.5	1227.5	1233.4	1245.3	1249.9	1249.9
22.5°	1099.1	1172.2	1195.7	1198.1	1205.2	1205.2	1207.5	1215.7	1226.4	1227.5	1227.5
25°	1052.0	1146.3	1166.3	1173.3	1180.4	1183.9	1187.5	1192.2	1195.7	1194.6	1195.7
27.5°	1002.6	1113.2	1139.2	1143.9	1153.3	1156.9	1161.6	1162.8	1163.9	1167.4	1165.2
30°	947.2	1067.3	1106.2	1111.0	1126.2	1128.6	1123.9	1126.2	1132.1	1134.5	1136.9
32.5°	884.7	999.0	1072.1	1082.7	1096.8	1089.7	1088.6	1092.1	1101.5	1101.5	1103.8
35°	799.9	946.0	1040.3	1049.7	1060.3	1052.0	1056.8	1057.9	1063.8	1067.3	1066.2
37.5°	706.9	900.1	1007.2	1014.3	1022.6	1012.0	1019.0	1022.6	1027.3	1024.9	1024.9
40°	624.4	828.2	968.4	973.1	980.2	971.9	979.0	981.3	983.7	981.3	980.2
42.5°	563.1	749.3	927.1	933.0	928.3	934.2	936.5	941.3	937.8	933.0	933.0
45°	516.0	728.0	882.3	889.5	882.3	891.8	895.3	895.3	884.7	882.3	881.2
47.5°	500.7	685.6	837.6	837.6	834.0	845.9	851.8	843.5	832.9	829.4	829.4
50°	499.5	638.5	776.3	771.7	788.1	802.2	796.4	788.1	779.8	766.9	766.9
52.5°	453.6	580.8	697.5	715.1	741.0	749.3	739.8	731.6	717.5	711.5	706.9
55°	420.5	520.7	625.5	660.9	688.0	698.6	680.9	672.7	651.4	647.9	645.6
57.5°	413.5	433.5	559.6	604.4	637.3	636.2	625.5	610.2	592.6	589.1	587.8
60°	379.3	313.4	488.9	541.9	576.1	572.6	563.1	548.9	532.5	530.1	527.8
62.5°	344.0	227.4	408.8	468.8	517.1	516.0	507.7	486.6	474.7	468.8	464.2
65°	292.1	190.9	291.0	390.0	459.4	461.8	444.2	428.8	415.9	408.8	407.6
67.5°	222.6	155.5	196.7	325.1	404.1	401.7	379.3	372.3	355.8	352.3	345.2
70°	164.9	103.6	136.7	263.9	349.9	344.0	326.3	318.1	302.8	294.5	289.8
72.5°	136.7	83.6	100.1	205.0	294.5	287.5	272.1	262.7	249.8	242.7	237.9
75°	110.8	88.4	76.6	151.9	239.2	234.4	220.3	210.9	200.3	190.9	192.0
77.5°	81.3	82.5	61.2	111.9	189.7	182.6	174.3	162.6	157.8	148.4	148.4
80°	61.2	64.8	45.9	76.6	136.7	136.7	129.5	121.4	113.1	108.4	108.4
82.5°	41.2	41.2	34.2	48.3	93.1	89.5	84.8	82.5	77.7	75.4	75.4
85°	18.9	23.5	21.2	29.4	50.7	53.0	53.0	50.7	49.4	47.2	48.3
87.5°	5.9	10.6	13.0	16.5	25.9	27.1	28.3	28.3	28.3	29.4	29.4
90°	9.1	16.4	23.6	25.5	40.1	59.5	69.1	61.4	46.0	34.5	34.5
92.5°	36.4	98.2	160.1	175.6	246.8	341.7	389.3	341.1	245.0	172.8	165.9
95°	87.3	200.5	313.7	342.0	607.3	960.9	1137.8	1015.3	770.4	586.6	565.8
97.5°	151.0	250.8	350.7	375.6	818.0	1407.7	1702.6	1625.2	1470.4	1354.3	1314.6
100°	200.1	290.6	381.2	403.8	894.6	1549.1	1876.3	1881.9	1893.3	1901.8	1854.6
102.5°	241.9	326.4	410.9	432.0	929.9	1593.6	1925.4	2024.0	2221.3	2369.2	2328.8
105°	312.9	384.4	455.9	473.8	955.9	1598.6	1920.0	2141.0	2583.3	2914.9	2893.2
107.5°	385.7	452.3	519.0	535.7	960.7	1527.5	1810.8	2119.3	2736.1	3198.7	3204.0
110°	434.8	495.0	555.3	570.3	953.5	1464.4	1719.9	2064.7	2754.3	3271.4	3294.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	483.0	540.3	597.8	612.1	953.7	1409.3	1637.1	1990.0	2695.7	3225.0	3259.8
115°	555.7	608.7	661.5	674.8	962.5	1346.2	1538.0	1877.9	2557.8	3067.7	3115.9
117.5°	627.5	675.7	723.7	735.8	980.4	1306.6	1469.7	1776.5	2390.1	2850.4	2903.8
120°	669.4	714.7	759.9	771.2	994.9	1293.3	1442.4	1722.8	2283.4	2703.9	2755.8
122.5°	710.3	756.0	801.6	813.0	1015.8	1286.3	1421.5	1674.0	2178.9	2557.5	2608.7
125°	773.1	814.7	856.3	866.7	1044.0	1280.6	1398.8	1613.3	2042.1	2363.8	2410.9
127.5°	824.0	866.1	908.1	918.6	1072.3	1277.2	1379.7	1563.8	1932.1	2208.2	2248.0
130°	851.2	896.6	941.8	953.1	1092.9	1279.2	1372.4	1536.3	1864.2	2110.0	2146.8
132.5°	879.4	924.8	970.0	981.3	1109.6	1280.6	1366.0	1512.8	1806.2	2026.3	2059.3
135°	921.3	962.5	1003.8	1014.1	1127.7	1279.3	1355.1	1478.0	1723.8	1908.1	1936.5
137.5°	964.0	1004.9	1045.7	1055.9	1155.1	1287.2	1353.3	1457.2	1665.0	1820.8	1844.1
140°	999.5	1037.1	1074.7	1084.1	1171.7	1288.6	1347.0	1436.7	1616.2	1750.8	1772.5
142.5°	1026.8	1061.6	1096.3	1105.0	1185.6	1293.2	1347.0	1425.7	1583.4	1701.6	1720.3
145°	1068.6	1098.9	1129.3	1136.9	1203.9	1293.2	1337.8	1402.3	1531.3	1628.0	1642.2
147.5°	1110.5	1140.0	1169.5	1176.9	1230.6	1302.1	1337.8	1388.6	1490.0	1566.2	1577.9
150°	1137.8	1164.5	1191.2	1197.8	1244.5	1306.7	1337.8	1380.7	1466.4	1530.7	1540.2
152.5°	1165.9	1186.1	1206.3	1211.4	1253.6	1309.7	1337.8	1374.5	1447.6	1502.5	1509.7
155°	1207.8	1222.8	1237.7	1241.5	1273.6	1316.4	1337.8	1367.0	1425.2	1468.9	1473.6
157.5°	1238.8	1253.2	1267.8	1271.4	1293.6	1323.1	1337.8	1360.5	1405.7	1439.7	1443.0
160°	1259.7	1271.0	1282.3	1285.1	1302.7	1326.1	1337.8	1357.2	1396.1	1425.1	1427.1
162.5°	1280.6	1289.0	1297.5	1299.6	1312.4	1329.3	1337.8	1354.2	1386.9	1411.5	1413.4
165°	1303.3	1311.0	1318.7	1320.6	1326.3	1334.0	1337.8	1349.6	1373.0	1390.6	1392.5
167.5°	1324.2	1327.8	1331.5	1332.4	1337.2	1343.7	1347.0	1354.6	1370.0	1381.5	1382.3
170°	1337.8	1341.5	1345.2	1346.1	1346.3	1346.8	1347.0	1354.6	1370.0	1381.5	1381.5
172.5°	1345.1	1345.9	1346.8	1347.0	1347.0	1347.0	1347.0	1353.0	1365.1	1374.3	1373.6
175°	1355.1	1355.1	1355.1	1355.1	1352.4	1348.8	1347.0	1350.8	1358.5	1364.3	1364.3
177.5°	1355.1	1355.1	1355.1	1355.1	1353.0	1350.2	1348.8	1351.8	1357.9	1362.4	1361.6
180°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1277.0	1273.5	1277.0	1274.7	1275.8	1272.3	1261.7	1258.2	1261.7	1265.3	1265.3
5°	1292.3	1290.0	1292.3	1292.3	1291.2	1288.8	1277.0	1274.7	1277.0	1278.2	1275.8
7.5°	1297.1	1293.6	1297.1	1294.7	1294.7	1292.3	1280.6	1278.2	1279.4	1282.9	1279.4
10°	1297.1	1293.6	1297.1	1295.8	1294.7	1292.3	1280.6	1275.8	1275.8	1279.4	1275.8
12.5°	1291.2	1288.8	1291.2	1288.8	1288.8	1286.4	1274.7	1269.9	1271.2	1272.3	1267.6
15°	1281.7	1278.2	1281.7	1279.4	1280.6	1277.0	1264.1	1259.4	1259.4	1261.7	1253.4
17.5°	1267.6	1262.9	1267.6	1266.4	1265.3	1262.9	1251.1	1246.4	1245.3	1246.4	1240.5
20°	1251.1	1247.5	1251.1	1249.9	1249.9	1245.3	1233.4	1227.5	1227.5	1227.5	1221.6
22.5°	1225.2	1221.6	1225.2	1227.5	1227.5	1226.4	1215.7	1207.5	1205.2	1205.2	1198.1
25°	1195.7	1192.2	1195.7	1195.7	1194.6	1195.7	1192.2	1187.5	1183.9	1180.4	1173.3
27.5°	1167.4	1165.2	1167.4	1165.2	1167.4	1163.9	1162.8	1161.6	1156.9	1153.3	1143.9
30°	1139.2	1136.9	1139.2	1136.9	1134.5	1132.1	1126.2	1123.9	1128.6	1126.2	1111.0
32.5°	1103.8	1101.5	1103.8	1103.8	1101.5	1101.5	1092.1	1088.6	1089.7	1096.8	1082.7
35°	1067.3	1063.8	1067.3	1066.2	1067.3	1063.8	1057.9	1056.8	1052.0	1060.3	1049.7
37.5°	1024.9	1021.4	1024.9	1024.9	1024.9	1027.3	1022.6	1019.0	1012.0	1022.6	1014.3
40°	981.3	976.6	981.3	980.2	981.3	983.7	981.3	979.0	971.9	980.2	973.1
42.5°	931.9	930.6	931.9	933.0	933.0	937.8	941.3	936.5	934.2	928.3	933.0
45°	878.8	876.5	878.8	881.2	882.3	884.7	895.3	895.3	891.8	882.3	889.5
47.5°	822.3	816.4	822.3	829.4	829.4	832.9	843.5	851.8	845.9	834.0	837.6
50°	762.2	763.4	762.2	766.9	766.9	779.8	788.1	796.4	802.2	788.1	771.7
52.5°	703.3	702.1	703.3	706.9	711.5	717.5	731.6	739.8	749.3	741.0	715.1
55°	644.4	646.8	644.4	645.6	647.9	651.4	672.7	680.9	698.6	688.0	660.9
57.5°	585.5	582.0	585.5	587.8	589.1	592.6	610.2	625.5	636.2	637.3	604.4
60°	517.1	512.5	517.1	527.8	530.1	532.5	548.9	563.1	572.6	576.1	541.9
62.5°	457.1	448.8	457.1	464.2	468.8	474.7	486.6	507.7	516.0	517.1	468.8
65°	393.5	390.0	393.5	407.6	408.8	415.9	428.8	444.2	461.8	459.4	390.0
67.5°	335.8	335.8	335.8	345.2	352.3	355.8	372.3	379.3	401.7	404.1	325.1
70°	282.7	281.6	282.7	289.8	294.5	302.8	318.1	326.3	344.0	349.9	263.9
72.5°	232.0	230.9	232.0	237.9	242.7	249.8	262.7	272.1	287.5	294.5	205.0
75°	187.3	185.0	187.3	192.0	190.9	200.3	210.9	220.3	234.4	239.2	151.9
77.5°	143.7	143.7	143.7	148.4	148.4	157.8	162.6	174.3	182.6	189.7	111.9
80°	107.2	106.0	107.2	108.4	108.4	113.1	121.4	129.5	136.7	136.7	76.6
82.5°	75.4	73.1	75.4	75.4	75.4	77.7	82.5	84.8	89.5	93.1	48.3
85°	47.2	47.2	47.2	48.3	47.2	49.4	50.7	53.0	53.0	50.7	29.4
87.5°	30.7	29.4	30.7	29.4	29.4	28.3	28.3	28.3	27.1	25.9	16.5
90°	34.5	34.5	34.5	34.5	34.5	46.0	61.4	69.1	59.5	40.1	25.5
92.5°	138.4	110.9	138.4	165.9	172.8	245.0	341.1	389.3	341.7	246.8	175.6
95°	482.5	399.3	482.5	565.8	586.6	770.4	1015.3	1137.8	960.9	607.3	342.0
97.5°	1156.2	997.7	1156.2	1314.6	1354.3	1470.4	1625.2	1702.6	1407.7	818.0	375.6
100°	1665.8	1477.0	1665.8	1854.6	1901.8	1893.3	1881.9	1876.3	1549.1	894.6	403.8
102.5°	2167.1	2005.4	2167.1	2328.8	2369.2	2221.3	2024.0	1925.4	1593.6	929.9	432.0
105°	2806.3	2719.4	2806.3	2893.2	2914.9	2583.3	2141.0	1920.0	1598.6	955.9	473.8
107.5°	3224.9	3245.9	3224.9	3204.0	3198.7	2736.1	2119.3	1810.8	1527.5	960.7	535.7
110°	3384.6	3475.2	3384.6	3294.1	3271.4	2754.3	2064.7	1719.9	1464.4	953.5	570.3



TEST NUMBER: P935465

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3398.8	3537.9	3398.8	3259.8	3225.0	2695.7	1990.0	1637.1	1409.3	953.7	612.1
115°	3308.7	3501.5	3308.7	3115.9	3067.7	2557.8	1877.9	1538.0	1346.2	962.5	674.8
117.5°	3117.6	3331.5	3117.6	2903.8	2850.4	2390.1	1776.5	1469.7	1306.6	980.4	735.8
120°	2963.7	3171.4	2963.7	2755.8	2703.9	2283.4	1722.8	1442.4	1293.3	994.9	771.2
122.5°	2813.7	3018.6	2813.7	2608.7	2557.5	2178.9	1674.0	1421.5	1286.3	1015.8	813.0
125°	2599.8	2788.5	2599.8	2410.9	2363.8	2042.1	1613.3	1398.8	1280.6	1044.0	866.7
127.5°	2407.3	2566.6	2407.3	2248.0	2208.2	1932.1	1563.8	1379.7	1277.2	1072.3	918.6
130°	2293.9	2441.1	2293.9	2146.8	2110.0	1864.2	1536.3	1372.4	1279.2	1092.9	953.1
132.5°	2191.1	2322.8	2191.1	2059.3	2026.3	1806.2	1512.8	1366.0	1280.6	1109.6	981.3
135°	2050.1	2163.7	2050.1	1936.5	1908.1	1723.8	1478.0	1355.1	1279.3	1127.7	1014.1
137.5°	1937.0	2030.0	1937.0	1844.1	1820.8	1665.0	1457.2	1353.3	1287.2	1155.1	1055.9
140°	1859.5	1946.3	1859.5	1772.5	1750.8	1616.2	1436.7	1347.0	1288.6	1171.7	1084.1
142.5°	1795.1	1869.9	1795.1	1720.3	1701.6	1583.4	1425.7	1347.0	1293.2	1185.6	1105.0
145°	1698.7	1755.3	1698.7	1642.2	1628.0	1531.3	1402.3	1337.8	1293.2	1203.9	1136.9
147.5°	1624.8	1671.7	1624.8	1577.9	1566.2	1490.0	1388.6	1337.8	1302.1	1230.6	1176.9
150°	1578.2	1616.2	1578.2	1540.2	1530.7	1466.4	1380.7	1337.8	1306.7	1244.5	1197.8
152.5°	1538.3	1567.1	1538.3	1509.7	1502.5	1447.6	1374.5	1337.8	1309.7	1253.6	1211.4
155°	1492.6	1511.6	1492.6	1473.6	1468.9	1425.2	1367.0	1337.8	1316.4	1273.6	1241.5
157.5°	1456.4	1469.7	1456.4	1443.0	1439.7	1405.7	1360.5	1337.8	1323.1	1293.6	1271.4
160°	1434.7	1442.4	1434.7	1427.1	1425.1	1396.1	1357.2	1337.8	1326.1	1302.7	1285.1
162.5°	1420.7	1427.9	1420.7	1413.4	1411.5	1386.9	1354.2	1337.8	1329.3	1312.4	1299.6
165°	1400.2	1407.9	1400.2	1392.5	1390.6	1373.0	1349.6	1337.8	1334.0	1326.3	1320.6
167.5°	1385.5	1388.8	1385.5	1382.3	1381.5	1370.0	1354.6	1347.0	1343.7	1337.2	1332.4
170°	1381.5	1381.5	1381.5	1381.5	1381.5	1370.0	1354.6	1347.0	1346.8	1346.3	1346.1
172.5°	1370.7	1367.9	1370.7	1373.6	1374.3	1365.1	1353.0	1347.0	1347.0	1347.0	1347.0
175°	1364.3	1364.3	1364.3	1364.3	1364.3	1358.5	1350.8	1347.0	1348.8	1352.4	1355.1
177.5°	1358.4	1355.1	1358.4	1361.6	1362.4	1357.9	1351.8	1348.8	1350.2	1353.0	1355.1
180°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1



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CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1262.9	1255.8	1255.8	1244.0	1239.4	1235.8	1229.9	1212.2	1207.5	1202.8	1209.9
5°	1273.5	1260.5	1251.1	1229.9	1212.2	1205.2	1182.8	1140.4	1112.1	1090.8	1079.1
7.5°	1275.8	1259.4	1241.7	1208.7	1166.3	1147.4	1079.1	1001.4	980.2	961.3	949.5
10°	1273.5	1254.7	1229.9	1180.4	1080.3	1047.3	979.0	928.3	915.4	911.9	915.4
12.5°	1265.3	1247.5	1213.4	1131.0	990.7	968.4	928.3	898.9	896.5	902.4	934.2
15°	1251.1	1234.6	1194.6	1064.9	941.3	924.8	896.5	885.9	898.9	940.1	1035.5
17.5°	1237.0	1218.1	1168.7	1000.2	903.6	891.8	871.8	893.0	966.0	1021.4	1053.2
20°	1218.1	1195.7	1139.2	953.0	876.5	865.9	856.4	951.9	1007.2	1027.3	1044.9
22.5°	1195.7	1172.2	1099.1	920.1	848.2	840.0	845.9	984.8	1007.2	1021.4	1036.7
25°	1166.3	1146.3	1052.0	894.2	825.9	816.4	838.8	981.3	994.3	997.8	1028.5
27.5°	1139.2	1113.2	1002.6	870.6	798.7	795.2	844.7	966.0	975.4	979.0	1012.0
30°	1106.2	1067.3	947.2	845.9	770.4	769.3	845.9	947.2	944.8	954.3	987.2
32.5°	1072.1	999.0	884.7	815.2	743.4	742.2	837.6	918.9	916.5	929.5	954.3
35°	1040.3	946.0	799.9	779.8	709.2	710.4	817.6	885.9	887.1	898.9	914.2
37.5°	1007.2	900.1	706.9	741.0	676.2	676.2	790.5	855.3	852.9	856.4	877.7
40°	968.4	828.2	624.4	690.3	645.6	642.0	757.5	822.3	814.0	812.9	842.3
42.5°	927.1	749.3	563.1	623.2	610.2	605.5	717.5	782.2	766.9	770.4	808.1
45°	882.3	728.0	516.0	526.6	573.7	570.2	673.8	736.3	725.7	735.1	774.0
47.5°	837.6	685.6	500.7	437.0	534.9	533.7	625.5	691.5	685.6	695.1	736.3
50°	776.3	638.5	499.5	374.6	491.2	496.0	567.8	647.9	647.9	656.2	699.7
52.5°	697.5	580.8	453.6	339.3	440.6	454.7	517.1	610.2	612.6	620.9	659.7
55°	625.5	520.7	420.5	312.1	380.5	411.1	467.7	571.3	576.1	584.3	619.6
57.5°	559.6	433.5	413.5	280.4	325.1	354.6	424.1	533.7	536.0	543.1	577.2
60°	488.9	313.4	379.3	246.2	276.8	299.2	384.1	488.9	497.1	501.9	531.3
62.5°	408.8	227.4	344.0	222.6	253.3	258.0	351.1	446.5	457.1	460.7	478.3
65°	291.0	190.9	292.1	202.6	228.5	229.8	315.7	402.9	412.4	418.2	431.2
67.5°	196.7	155.5	222.6	183.7	209.7	210.9	281.6	352.3	365.2	369.9	378.2
70°	136.7	103.6	164.9	163.7	188.5	190.9	245.0	306.3	318.1	321.6	326.3
72.5°	100.1	83.6	136.7	147.3	166.1	168.5	207.4	254.4	266.2	269.8	272.1
75°	76.6	88.4	110.8	128.4	141.4	142.5	169.6	207.4	215.6	217.9	219.1
77.5°	61.2	82.5	81.3	103.6	115.4	113.1	133.2	160.2	167.3	167.3	167.3
80°	45.9	64.8	61.2	74.2	84.8	82.5	95.4	114.3	116.6	119.0	117.8
82.5°	34.2	41.2	41.2	47.2	56.6	54.2	63.6	74.2	74.2	74.2	76.6
85°	21.2	23.5	18.9	24.8	31.8	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	13.0	10.6	5.9	9.4	14.1	14.1	16.5	17.7	16.5	16.5	16.5
90°	23.6	16.4	9.1	16.4	23.6	25.5	40.1	59.5	69.1	61.4	46.0
92.5°	160.1	98.2	36.4	98.2	160.1	175.6	246.8	341.7	389.3	341.1	245.0
95°	313.7	200.5	87.3	200.5	313.7	342.0	607.3	960.9	1137.8	1015.3	770.4
97.5°	350.7	250.8	151.0	250.8	350.7	375.6	818.0	1407.7	1702.6	1625.2	1470.4
100°	381.2	290.6	200.1	290.6	381.2	403.8	894.6	1549.1	1876.3	1881.9	1893.3
102.5°	410.9	326.4	241.9	326.4	410.9	432.0	929.9	1593.6	1925.4	2024.0	2221.3
105°	455.9	384.4	312.9	384.4	455.9	473.8	955.9	1598.6	1920.0	2141.0	2583.3
107.5°	519.0	452.3	385.7	452.3	519.0	535.7	960.7	1527.5	1810.8	2119.3	2736.1
110°	555.3	495.0	434.8	495.0	555.3	570.3	953.5	1464.4	1719.9	2064.7	2754.3



TEST NUMBER: P935465

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	597.8	540.3	483.0	540.3	597.8	612.1	953.7	1409.3	1637.1	1990.0	2695.7
115°	661.5	608.7	555.7	608.7	661.5	674.8	962.5	1346.2	1538.0	1877.9	2557.8
117.5°	723.7	675.7	627.5	675.7	723.7	735.8	980.4	1306.6	1469.7	1776.5	2390.1
120°	759.9	714.7	669.4	714.7	759.9	771.2	994.9	1293.3	1442.4	1722.8	2283.4
122.5°	801.6	756.0	710.3	756.0	801.6	813.0	1015.8	1286.3	1421.5	1674.0	2178.9
125°	856.3	814.7	773.1	814.7	856.3	866.7	1044.0	1280.6	1398.8	1613.3	2042.1
127.5°	908.1	866.1	824.0	866.1	908.1	918.6	1072.3	1277.2	1379.7	1563.8	1932.1
130°	941.8	896.6	851.2	896.6	941.8	953.1	1092.9	1279.2	1372.4	1536.3	1864.2
132.5°	970.0	924.8	879.4	924.8	970.0	981.3	1109.6	1280.6	1366.0	1512.8	1806.2
135°	1003.8	962.5	921.3	962.5	1003.8	1014.1	1127.7	1279.3	1355.1	1478.0	1723.8
137.5°	1045.7	1004.9	964.0	1004.9	1045.7	1055.9	1155.1	1287.2	1353.3	1457.2	1665.0
140°	1074.7	1037.1	999.5	1037.1	1074.7	1084.1	1171.7	1288.6	1347.0	1436.7	1616.2
142.5°	1096.3	1061.6	1026.8	1061.6	1096.3	1105.0	1185.6	1293.2	1347.0	1425.7	1583.4
145°	1129.3	1098.9	1068.6	1098.9	1129.3	1136.9	1203.9	1293.2	1337.8	1402.3	1531.3
147.5°	1169.5	1140.0	1110.5	1140.0	1169.5	1176.9	1230.6	1302.1	1337.8	1388.6	1490.0
150°	1191.2	1164.5	1137.8	1164.5	1191.2	1197.8	1244.5	1306.7	1337.8	1380.7	1466.4
152.5°	1206.3	1186.1	1165.9	1186.1	1206.3	1211.4	1253.6	1309.7	1337.8	1374.5	1447.6
155°	1237.7	1222.8	1207.8	1222.8	1237.7	1241.5	1273.6	1316.4	1337.8	1367.0	1425.2
157.5°	1267.8	1253.2	1238.8	1253.2	1267.8	1271.4	1293.6	1323.1	1337.8	1360.5	1405.7
160°	1282.3	1271.0	1259.7	1271.0	1282.3	1285.1	1302.7	1326.1	1337.8	1357.2	1396.1
162.5°	1297.5	1289.0	1280.6	1289.0	1297.5	1299.6	1312.4	1329.3	1337.8	1354.2	1386.9
165°	1318.7	1311.0	1303.3	1311.0	1318.7	1320.6	1326.3	1334.0	1337.8	1349.6	1373.0
167.5°	1331.5	1327.8	1324.2	1327.8	1331.5	1332.4	1337.2	1343.7	1347.0	1354.6	1370.0
170°	1345.2	1341.5	1337.8	1341.5	1345.2	1346.1	1346.3	1346.8	1347.0	1354.6	1370.0
172.5°	1346.8	1345.9	1345.1	1345.9	1346.8	1347.0	1347.0	1347.0	1347.0	1353.0	1365.1
175°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1352.4	1348.8	1347.0	1350.8	1358.5
177.5°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1353.0	1350.2	1348.8	1351.8	1357.9
180°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1



TEST NUMBER: P935465
 CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1201.6	1198.1	1202.8	1189.8	1202.8	1198.1	1201.6	1209.9	1202.8	1207.5	1212.2
5°	1054.4	1048.5	1029.6	1014.3	1029.6	1048.5	1054.4	1079.1	1090.8	1112.1	1140.4
7.5°	942.4	937.8	933.0	923.6	933.0	937.8	942.4	949.5	961.3	980.2	1001.4
10°	917.7	918.9	926.0	924.8	926.0	918.9	917.7	915.4	911.9	915.4	928.3
12.5°	981.3	992.0	1030.8	1028.5	1030.8	992.0	981.3	934.2	902.4	896.5	898.9
15°	1054.4	1057.9	1066.2	1067.3	1066.2	1057.9	1054.4	1035.5	940.1	898.9	885.9
17.5°	1061.4	1062.7	1068.5	1068.5	1068.5	1062.7	1061.4	1053.2	1021.4	966.0	893.0
20°	1055.5	1057.9	1069.7	1072.1	1069.7	1057.9	1055.5	1044.9	1027.3	1007.2	951.9
22.5°	1053.2	1057.9	1067.3	1066.2	1067.3	1057.9	1053.2	1036.7	1021.4	1007.2	984.8
25°	1041.4	1041.4	1042.6	1043.8	1042.6	1041.4	1041.4	1028.5	997.8	994.3	981.3
27.5°	1016.6	1019.0	1026.1	1024.9	1026.1	1019.0	1016.6	1012.0	979.0	975.4	966.0
30°	994.3	992.0	986.1	981.3	986.1	992.0	994.3	987.2	954.3	944.8	947.2
32.5°	956.6	950.7	944.8	941.3	944.8	950.7	956.6	954.3	929.5	916.5	918.9
35°	911.9	913.0	911.9	908.3	911.9	913.0	911.9	914.2	898.9	887.1	885.9
37.5°	880.1	882.3	881.2	876.5	881.2	882.3	880.1	877.7	856.4	852.9	855.3
40°	847.0	848.2	847.0	843.5	847.0	848.2	847.0	842.3	812.9	814.0	822.3
42.5°	815.2	814.0	810.5	808.1	810.5	814.0	815.2	808.1	770.4	766.9	782.2
45°	778.7	779.8	772.8	769.3	772.8	779.8	778.7	774.0	735.1	725.7	736.3
47.5°	742.2	742.2	736.3	732.8	736.3	742.2	742.2	736.3	695.1	685.6	691.5
50°	703.3	702.1	693.9	692.7	693.9	702.1	703.3	699.7	656.2	647.9	647.9
52.5°	658.6	658.6	659.7	662.1	659.7	658.6	658.6	659.7	620.9	612.6	610.2
55°	619.6	620.9	629.1	631.4	629.1	620.9	619.6	619.6	584.3	576.1	571.3
57.5°	579.6	579.6	585.5	585.5	585.5	579.6	579.6	577.2	543.1	536.0	533.7
60°	533.7	536.0	540.8	539.5	540.8	536.0	533.7	531.3	501.9	497.1	488.9
62.5°	485.3	487.7	488.9	486.6	488.9	487.7	485.3	478.3	460.7	457.1	446.5
65°	434.7	437.0	438.3	435.9	438.3	437.0	434.7	431.2	418.2	412.4	402.9
67.5°	382.9	381.7	380.5	385.2	380.5	381.7	382.9	378.2	369.9	365.2	352.3
70°	329.9	329.9	328.7	331.0	328.7	329.9	329.9	326.3	321.6	318.1	306.3
72.5°	273.3	272.1	276.8	273.3	276.8	272.1	273.3	272.1	269.8	266.2	254.4
75°	217.9	220.3	217.9	221.5	217.9	220.3	217.9	219.1	217.9	215.6	207.4
77.5°	166.1	168.5	166.1	166.1	166.1	168.5	166.1	167.3	167.3	167.3	160.2
80°	117.8	116.6	116.6	115.4	116.6	116.6	117.8	117.8	119.0	116.6	114.3
82.5°	75.4	74.2	74.2	76.6	74.2	74.2	75.4	76.6	74.2	74.2	74.2
85°	41.2	42.4	40.1	40.1	40.1	42.4	41.2	38.9	41.2	41.2	40.1
87.5°	15.3	14.1	14.1	14.1	14.1	14.1	15.3	16.5	16.5	16.5	17.7
90°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	46.0	61.4	69.1	59.5
92.5°	172.8	165.9	138.4	110.9	138.4	165.9	172.8	245.0	341.1	389.3	341.7
95°	586.6	565.8	482.5	399.3	482.5	565.8	586.6	770.4	1015.3	1137.8	960.9
97.5°	1354.3	1314.6	1156.2	997.7	1156.2	1314.6	1354.3	1470.4	1625.2	1702.6	1407.7
100°	1901.8	1854.6	1665.8	1477.0	1665.8	1854.6	1901.8	1893.3	1881.9	1876.3	1549.1
102.5°	2369.2	2328.8	2167.1	2005.4	2167.1	2328.8	2369.2	2221.3	2024.0	1925.4	1593.6
105°	2914.9	2893.2	2806.3	2719.4	2806.3	2893.2	2914.9	2583.3	2141.0	1920.0	1598.6
107.5°	3198.7	3204.0	3224.9	3245.9	3224.9	3204.0	3198.7	2736.1	2119.3	1810.8	1527.5
110°	3271.4	3294.1	3384.6	3475.2	3384.6	3294.1	3271.4	2754.3	2064.7	1719.9	1464.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3225.0	3259.8	3398.8	3537.9	3398.8	3259.8	3225.0	2695.7	1990.0	1637.1	1409.3
115°	3067.7	3115.9	3308.7	3501.5	3308.7	3115.9	3067.7	2557.8	1877.9	1538.0	1346.2
117.5°	2850.4	2903.8	3117.6	3331.5	3117.6	2903.8	2850.4	2390.1	1776.5	1469.7	1306.6
120°	2703.9	2755.8	2963.7	3171.4	2963.7	2755.8	2703.9	2283.4	1722.8	1442.4	1293.3
122.5°	2557.5	2608.7	2813.7	3018.6	2813.7	2608.7	2557.5	2178.9	1674.0	1421.5	1286.3
125°	2363.8	2410.9	2599.8	2788.5	2599.8	2410.9	2363.8	2042.1	1613.3	1398.8	1280.6
127.5°	2208.2	2248.0	2407.3	2566.6	2407.3	2248.0	2208.2	1932.1	1563.8	1379.7	1277.2
130°	2110.0	2146.8	2293.9	2441.1	2293.9	2146.8	2110.0	1864.2	1536.3	1372.4	1279.2
132.5°	2026.3	2059.3	2191.1	2322.8	2191.1	2059.3	2026.3	1806.2	1512.8	1366.0	1280.6
135°	1908.1	1936.5	2050.1	2163.7	2050.1	1936.5	1908.1	1723.8	1478.0	1355.1	1279.3
137.5°	1820.8	1844.1	1937.0	2030.0	1937.0	1844.1	1820.8	1665.0	1457.2	1353.3	1287.2
140°	1750.8	1772.5	1859.5	1946.3	1859.5	1772.5	1750.8	1616.2	1436.7	1347.0	1288.6
142.5°	1701.6	1720.3	1795.1	1869.9	1795.1	1720.3	1701.6	1583.4	1425.7	1347.0	1293.2
145°	1628.0	1642.2	1698.7	1755.3	1698.7	1642.2	1628.0	1531.3	1402.3	1337.8	1293.2
147.5°	1566.2	1577.9	1624.8	1671.7	1624.8	1577.9	1566.2	1490.0	1388.6	1337.8	1302.1
150°	1530.7	1540.2	1578.2	1616.2	1578.2	1540.2	1530.7	1466.4	1380.7	1337.8	1306.7
152.5°	1502.5	1509.7	1538.3	1567.1	1538.3	1509.7	1502.5	1447.6	1374.5	1337.8	1309.7
155°	1468.9	1473.6	1492.6	1511.6	1492.6	1473.6	1468.9	1425.2	1367.0	1337.8	1316.4
157.5°	1439.7	1443.0	1456.4	1469.7	1456.4	1443.0	1439.7	1405.7	1360.5	1337.8	1323.1
160°	1425.1	1427.1	1434.7	1442.4	1434.7	1427.1	1425.1	1396.1	1357.2	1337.8	1326.1
162.5°	1411.5	1413.4	1420.7	1427.9	1420.7	1413.4	1411.5	1386.9	1354.2	1337.8	1329.3
165°	1390.6	1392.5	1400.2	1407.9	1400.2	1392.5	1390.6	1373.0	1349.6	1337.8	1334.0
167.5°	1381.5	1382.3	1385.5	1388.8	1385.5	1382.3	1381.5	1370.0	1354.6	1347.0	1343.7
170°	1381.5	1381.5	1381.5	1381.5	1381.5	1381.5	1381.5	1370.0	1354.6	1347.0	1346.8
172.5°	1374.3	1373.6	1370.7	1367.9	1370.7	1373.6	1374.3	1365.1	1353.0	1347.0	1347.0
175°	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1364.3	1358.5	1350.8	1347.0	1348.8
177.5°	1362.4	1361.6	1358.4	1355.1	1358.4	1361.6	1362.4	1357.9	1351.8	1348.8	1350.2
180°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1229.9	1235.8	1239.4	1244.0	1255.8
5°	1182.8	1205.2	1212.2	1229.9	1251.1
7.5°	1079.1	1147.4	1166.3	1208.7	1241.7
10°	979.0	1047.3	1080.3	1180.4	1229.9
12.5°	928.3	968.4	990.7	1131.0	1213.4
15°	896.5	924.8	941.3	1064.9	1194.6
17.5°	871.8	891.8	903.6	1000.2	1168.7
20°	856.4	865.9	876.5	953.0	1139.2
22.5°	845.9	840.0	848.2	920.1	1099.1
25°	838.8	816.4	825.9	894.2	1052.0
27.5°	844.7	795.2	798.7	870.6	1002.6
30°	845.9	769.3	770.4	845.9	947.2
32.5°	837.6	742.2	743.4	815.2	884.7
35°	817.6	710.4	709.2	779.8	799.9
37.5°	790.5	676.2	676.2	741.0	706.9
40°	757.5	642.0	645.6	690.3	624.4
42.5°	717.5	605.5	610.2	623.2	563.1
45°	673.8	570.2	573.7	526.6	516.0
47.5°	625.5	533.7	534.9	437.0	500.7
50°	567.8	496.0	491.2	374.6	499.5
52.5°	517.1	454.7	440.6	339.3	453.6
55°	467.7	411.1	380.5	312.1	420.5
57.5°	424.1	354.6	325.1	280.4	413.5
60°	384.1	299.2	276.8	246.2	379.3
62.5°	351.1	258.0	253.3	222.6	344.0
65°	315.7	229.8	228.5	202.6	292.1
67.5°	281.6	210.9	209.7	183.7	222.6
70°	245.0	190.9	188.5	163.7	164.9
72.5°	207.4	168.5	166.1	147.3	136.7
75°	169.6	142.5	141.4	128.4	110.8
77.5°	133.2	113.1	115.4	103.6	81.3
80°	95.4	82.5	84.8	74.2	61.2
82.5°	63.6	54.2	56.6	47.2	41.2
85°	35.3	30.7	31.8	24.8	18.9
87.5°	16.5	14.1	14.1	9.4	5.9
90°	40.1	25.5	23.6	16.4	9.1
92.5°	246.8	175.6	160.1	98.2	36.4
95°	607.3	342.0	313.7	200.5	87.3
97.5°	818.0	375.6	350.7	250.8	151.0
100°	894.6	403.8	381.2	290.6	200.1
102.5°	929.9	432.0	410.9	326.4	241.9
105°	955.9	473.8	455.9	384.4	312.9
107.5°	960.7	535.7	519.0	452.3	385.7
110°	953.5	570.3	555.3	495.0	434.8



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CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	953.7	612.1	597.8	540.3	483.0
115°	962.5	674.8	661.5	608.7	555.7
117.5°	980.4	735.8	723.7	675.7	627.5
120°	994.9	771.2	759.9	714.7	669.4
122.5°	1015.8	813.0	801.6	756.0	710.3
125°	1044.0	866.7	856.3	814.7	773.1
127.5°	1072.3	918.6	908.1	866.1	824.0
130°	1092.9	953.1	941.8	896.6	851.2
132.5°	1109.6	981.3	970.0	924.8	879.4
135°	1127.7	1014.1	1003.8	962.5	921.3
137.5°	1155.1	1055.9	1045.7	1004.9	964.0
140°	1171.7	1084.1	1074.7	1037.1	999.5
142.5°	1185.6	1105.0	1096.3	1061.6	1026.8
145°	1203.9	1136.9	1129.3	1098.9	1068.6
147.5°	1230.6	1176.9	1169.5	1140.0	1110.5
150°	1244.5	1197.8	1191.2	1164.5	1137.8
152.5°	1253.6	1211.4	1206.3	1186.1	1165.9
155°	1273.6	1241.5	1237.7	1222.8	1207.8
157.5°	1293.6	1271.4	1267.8	1253.2	1238.8
160°	1302.7	1285.1	1282.3	1271.0	1259.7
162.5°	1312.4	1299.6	1297.5	1289.0	1280.6
165°	1326.3	1320.6	1318.7	1311.0	1303.3
167.5°	1337.2	1332.4	1331.5	1327.8	1324.2
170°	1346.3	1346.1	1345.2	1341.5	1337.8
172.5°	1347.0	1347.0	1346.8	1345.9	1345.1
175°	1352.4	1355.1	1355.1	1355.1	1355.1
177.5°	1353.0	1355.1	1355.1	1355.1	1355.1
180°	1355.1	1355.1	1355.1	1355.1	1355.1



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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	8.25	8.93	9.38	10.06	11.62	11.08	11.77	12.22	12.89	14.46
	3H	8.71	9.32	9.85	10.46	12.04	12.42	13.03	13.56	14.16	15.75
	4H	8.89	9.47	10.04	10.61	12.20	12.85	13.44	14.01	14.57	16.16
	6H	9.00	9.54	10.16	10.67	12.27	13.13	13.67	14.29	14.80	16.40
	8H	9.00	9.51	10.16	10.66	12.25	13.20	13.71	14.36	14.86	16.45
	12H	8.96	9.45	10.13	10.59	12.20	13.24	13.72	14.40	14.87	16.48
4H	2H	9.26	9.84	10.42	10.97	12.56	11.47	12.05	12.63	13.19	14.77
	3H	10.27	10.75	11.43	11.91	13.51	12.96	13.45	14.12	14.61	16.21
	4H	10.54	10.98	11.70	12.13	13.75	13.48	13.93	14.65	15.08	16.70
	6H	10.65	11.03	11.82	12.20	13.81	13.84	14.22	15.01	15.39	17.00
	8H	10.65	11.01	11.82	12.17	13.80	13.94	14.30	15.11	15.46	17.09
	12H	10.61	10.94	11.80	12.11	13.74	13.99	14.32	15.18	15.49	17.12
8H	4H	10.98	11.33	12.15	12.50	14.12	13.59	13.95	14.76	15.11	16.74
	6H	11.23	11.53	12.42	12.73	14.35	14.02	14.32	15.21	15.52	17.15
	8H	11.27	11.53	12.47	12.71	14.35	14.18	14.43	15.37	15.61	17.26
	12H	11.25	11.47	12.45	12.65	14.33	14.27	14.49	15.47	15.67	17.35
12H	4H	10.98	11.30	12.16	12.47	14.10	13.55	13.87	14.74	15.05	16.68
	6H	11.29	11.55	12.49	12.73	14.37	14.02	14.28	15.22	15.46	17.10
	8H	11.35	11.58	12.55	12.75	14.43	14.17	14.40	15.37	15.58	17.25