

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: P935467

Luminaire Tested: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935467
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-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

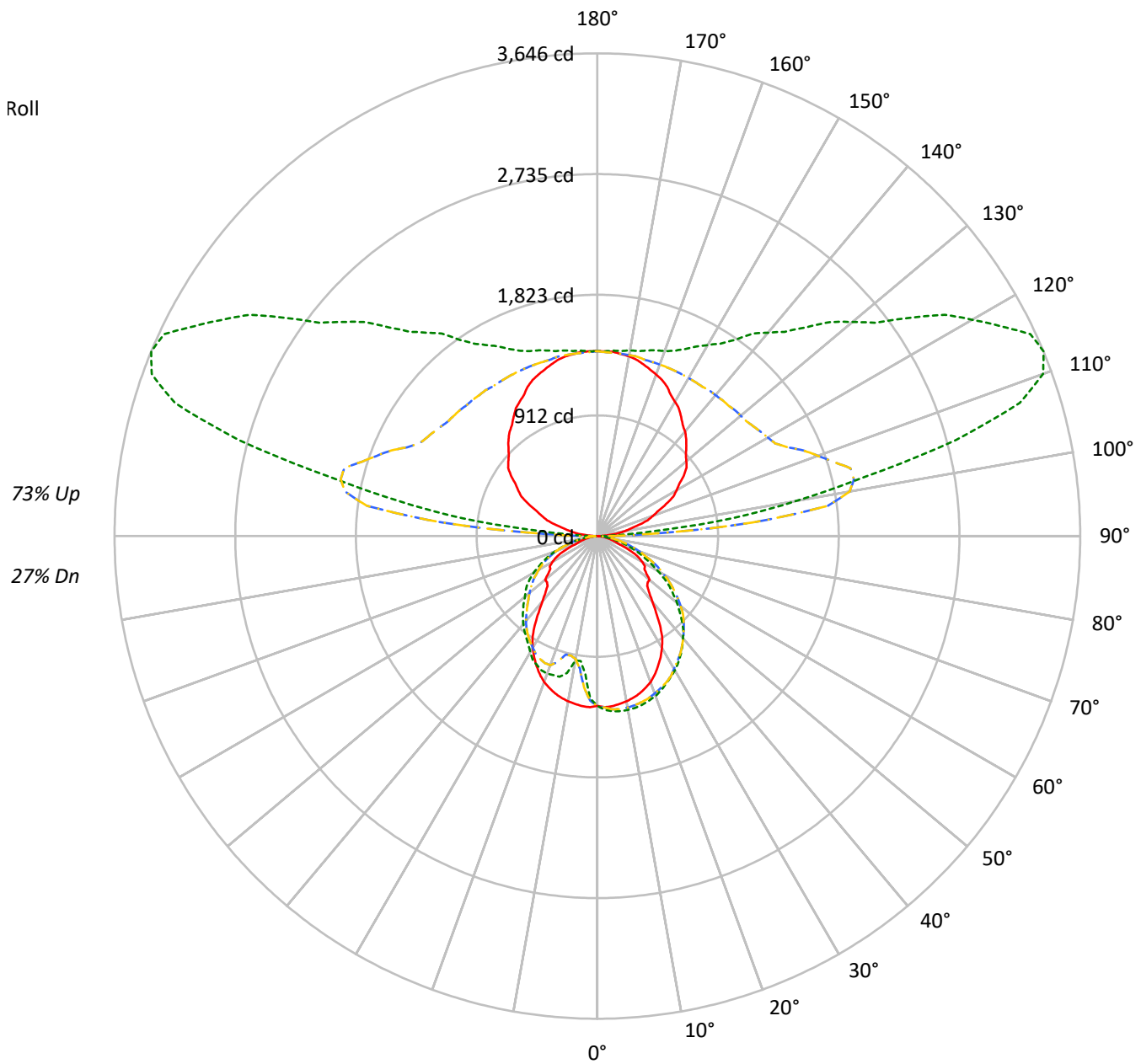
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12386.2 lumens
Efficiency: N/A
Efficacy: 130.1 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

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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					20
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27					27			
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29	23					23			
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19					19			
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16					16			
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14					14			
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12					12			
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	10					10			
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9					9			
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8					8			
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7					7			
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7					7			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	5999	6010	5999	4726
10°	5958	5921	5958	4232
15°	5894	5792	5894	4837
20°	5770	5640	5770	4847
25°	5518	5419	5518	4744
30°	5192	5235	5192	4518
35°	4628	5002	4628	4270
40°	3857	4727	3857	4083
45°	3446	4407	3446	3868
50°	3661	4025	3661	3652
55°	3444	3613	3444	3527
60°	3550	3069	3550	3230
65°	3219	2536	3219	2835
70°	2230	2021	2230	2377
75°	1954	1494	1954	1790
80°	1574	988	1574	1075
85°	908	524	908	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	0.9
10°-20°	328.9	2.7
20°-30°	508.4	4.1
30°-40°	606.9	4.9
40°-50°	610.5	4.9
50°-60°	531.2	4.3
60°-70°	376.6	3.0
70°-80°	199.3	1.6
80°-90°	55.0	0.4
90°-100°	680.8	5.5
100°-110°	1789.8	14.4
110°-120°	1855.8	15.0
120°-130°	1488.6	12.0
130°-140°	1168.0	9.4
140°-150°	896.5	7.2
150°-160°	645.6	5.2
160°-170°	395.0	3.2
170°-180°	133.5	1.1
0°-30°	953.2	7.7
0°-40°	1560.1	12.6
0°-60°	2701.8	21.8
0°-90°	3332.7	26.9
90°-120°	4326.4	34.9
90°-150°	7879.4	63.6
90°-180°	9054.0	73.1
0°-180°	12386.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1283	1283	1283	1283	1283	
5°	1289	1329	1289	1045	1289	122
15°	1231	1317	1231	1100	1231	346
25°	1084	1229	1084	1076	1084	498
35°	824	1096	824	936	824	510
45°	532	903	532	793	532	426
55°	433	667	433	651	433	398
65°	301	402	301	449	301	288
75°	114	191	114	228	114	120
85°	20	49	20	41	20	26
90°	9	36	9	36	9	9
95°	90	412	90	412	90	100
105°	322	2803	322	2803	322	342
115°	573	3609	573	3609	573	566
125°	797	2874	797	2874	797	707
135°	950	2230	950	2230	950	735
145°	1101	1809	1101	1809	1101	690
155°	1245	1558	1245	1558	1245	572
165°	1343	1451	1343	1451	1343	379
175°	1397	1406	1397	1406	1397	133
180°	1397	1397	1397	1397	1397	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1294.2	1294.2	1301.5	1304.0	1304.0	1300.3	1296.6	1300.3	1311.2	1314.8	1313.7
5°	1289.4	1299.1	1312.5	1314.8	1317.3	1316.1	1313.7	1316.1	1328.2	1330.7	1331.9
7.5°	1279.6	1297.9	1314.8	1318.5	1322.2	1318.5	1317.3	1319.7	1331.9	1334.3	1334.3
10°	1267.5	1293.0	1312.5	1314.8	1318.5	1314.8	1314.8	1319.7	1331.9	1334.3	1335.5
12.5°	1250.5	1285.7	1304.0	1306.3	1311.2	1310.0	1308.8	1313.7	1325.8	1328.2	1328.2
15°	1231.1	1272.4	1289.4	1291.8	1300.3	1297.9	1297.9	1302.7	1316.1	1319.7	1318.5
17.5°	1204.4	1255.4	1274.8	1278.4	1284.5	1283.3	1284.5	1289.4	1301.5	1304.0	1305.2
20°	1174.0	1232.3	1255.4	1259.0	1265.1	1265.1	1265.1	1271.1	1283.3	1288.1	1288.1
22.5°	1132.7	1208.0	1232.3	1234.7	1242.1	1242.1	1244.4	1252.9	1263.9	1265.1	1265.1
25°	1084.2	1181.3	1202.0	1209.2	1216.5	1220.2	1223.8	1228.7	1232.3	1231.1	1232.3
27.5°	1033.2	1147.3	1174.0	1178.9	1188.6	1192.3	1197.1	1198.3	1199.5	1203.1	1200.8
30°	976.1	1100.0	1140.1	1144.9	1160.7	1163.1	1158.2	1160.7	1166.8	1169.2	1171.6
32.5°	911.8	1029.5	1104.8	1115.8	1130.4	1123.0	1121.9	1125.5	1135.2	1135.2	1137.6
35°	824.3	974.9	1072.1	1081.8	1092.7	1084.2	1089.1	1090.3	1096.3	1100.0	1098.8
37.5°	728.5	927.6	1038.0	1045.4	1053.9	1042.9	1050.2	1053.9	1058.7	1056.2	1056.2
40°	643.5	853.5	998.0	1002.8	1010.2	1001.7	1008.9	1011.3	1013.8	1011.3	1010.2
42.5°	580.3	772.2	955.5	961.6	956.7	962.8	965.2	970.1	966.4	961.6	961.6
45°	531.8	750.3	909.3	916.7	909.3	919.1	922.7	922.7	911.8	909.3	908.1
47.5°	516.0	706.6	863.3	863.3	859.5	871.8	877.8	869.3	858.4	854.7	854.7
50°	514.8	658.1	800.1	795.3	812.2	826.8	820.7	812.2	803.7	790.4	790.4
52.5°	467.4	598.6	718.8	737.0	763.7	772.2	762.4	754.0	739.4	733.3	728.5
55°	433.4	536.7	644.7	681.1	709.0	720.0	701.8	693.3	671.4	667.7	665.3
57.5°	426.1	446.8	576.7	622.8	656.8	655.6	644.7	628.9	610.7	607.1	605.8
60°	390.9	323.0	503.8	558.5	593.7	590.1	580.3	565.7	548.8	546.4	543.9
62.5°	354.6	234.3	421.3	483.2	533.0	531.8	523.3	501.5	489.2	483.2	478.4
65°	301.1	196.7	299.9	401.9	473.5	475.9	457.7	441.9	428.6	421.3	420.1
67.5°	229.5	160.3	202.8	335.1	416.5	414.0	390.9	383.7	366.7	363.1	355.7
70°	170.0	106.8	140.8	272.0	360.6	354.6	336.3	327.8	312.0	303.5	298.7
72.5°	140.8	86.2	103.2	211.3	303.5	296.3	280.4	270.7	257.4	250.1	245.2
75°	114.1	91.1	78.9	156.6	246.5	241.6	227.0	217.3	206.4	196.7	197.9
77.5°	83.8	85.0	63.1	115.3	195.5	188.2	179.7	167.5	162.7	153.0	153.0
80°	63.1	66.8	47.3	78.9	140.8	140.8	133.5	125.1	116.6	111.7	111.7
82.5°	42.5	42.5	35.2	49.8	95.9	92.2	87.4	85.0	80.1	77.7	77.7
85°	19.5	24.3	21.8	30.3	52.2	54.7	54.7	52.2	51.0	48.6	49.8
87.5°	6.1	11.0	13.4	17.0	26.7	28.0	29.1	29.1	29.1	30.3	30.3
90°	9.4	16.9	24.3	26.2	41.3	61.3	71.2	63.3	47.4	35.6	35.6
92.5°	37.5	101.2	165.0	180.9	254.4	352.2	401.2	351.6	252.4	178.0	171.0
95°	90.0	206.6	323.3	352.5	625.8	990.3	1172.5	1046.4	793.9	604.6	583.1
97.5°	155.6	258.5	361.4	387.1	843.0	1450.8	1754.7	1674.9	1515.3	1395.7	1354.8
100°	206.2	299.5	392.8	416.2	922.0	1596.4	1933.7	1939.5	1951.2	1959.9	1911.3
102.5°	249.3	336.4	423.4	445.2	958.3	1642.3	1984.3	2085.9	2289.2	2441.7	2400.0
105°	322.4	396.2	469.9	488.3	985.1	1647.5	1978.7	2206.5	2662.3	3004.0	2981.7
107.5°	397.5	466.2	534.9	552.1	990.1	1574.2	1866.2	2184.1	2819.8	3296.5	3301.9
110°	448.1	510.1	572.2	587.7	982.6	1509.2	1772.5	2127.9	2838.5	3371.5	3394.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	497.7	556.9	616.1	630.8	982.9	1452.4	1687.1	2050.8	2778.1	3323.7	3359.5
115°	572.7	627.3	681.8	695.4	992.0	1387.3	1585.0	1935.3	2636.0	3161.5	3211.2
117.5°	646.7	696.3	745.9	758.3	1010.4	1346.6	1514.7	1830.9	2463.2	2937.5	2992.6
120°	689.8	736.5	783.1	794.8	1025.4	1332.8	1486.5	1775.5	2353.2	2786.6	2840.1
122.5°	732.0	779.1	826.1	837.9	1046.9	1325.6	1465.0	1725.1	2245.5	2635.7	2688.5
125°	796.7	839.6	882.5	893.2	1076.0	1319.7	1441.6	1662.6	2104.6	2436.1	2484.7
127.5°	849.2	892.6	935.8	946.7	1105.1	1316.3	1421.9	1611.6	1991.2	2275.8	2316.8
130°	877.3	924.0	970.6	982.3	1126.3	1318.4	1414.4	1583.3	1921.2	2174.6	2212.5
132.5°	906.3	953.0	999.7	1011.3	1143.5	1319.7	1407.8	1559.0	1861.5	2088.3	2122.2
135°	949.5	992.0	1034.5	1045.1	1162.2	1318.5	1396.6	1523.2	1776.5	1966.5	1995.7
137.5°	993.5	1035.6	1077.7	1088.2	1190.4	1326.6	1394.7	1501.8	1715.9	1876.5	1900.5
140°	1030.1	1068.8	1107.6	1117.2	1207.6	1328.0	1388.2	1480.7	1665.6	1804.3	1826.7
142.5°	1058.2	1094.1	1129.8	1138.8	1221.9	1332.8	1388.2	1469.3	1631.8	1753.7	1772.9
145°	1101.3	1132.5	1163.9	1171.6	1240.7	1332.8	1378.7	1445.2	1578.1	1677.8	1692.4
147.5°	1144.5	1174.9	1205.3	1212.9	1268.2	1341.9	1378.7	1431.1	1535.6	1614.1	1626.1
150°	1172.5	1200.1	1227.6	1234.5	1282.5	1346.7	1378.7	1422.9	1511.3	1577.5	1587.3
152.5°	1201.6	1222.4	1243.2	1248.5	1291.9	1349.8	1378.7	1416.5	1491.9	1548.5	1555.9
155°	1244.8	1260.2	1275.6	1279.4	1312.6	1356.7	1378.7	1408.8	1468.8	1513.8	1518.7
157.5°	1276.6	1291.6	1306.6	1310.3	1333.1	1363.5	1378.7	1402.1	1448.7	1483.7	1487.2
160°	1298.2	1309.9	1321.5	1324.4	1342.5	1366.7	1378.7	1398.7	1438.8	1468.7	1470.7
162.5°	1319.7	1328.4	1337.2	1339.4	1352.5	1370.0	1378.7	1395.6	1429.3	1454.7	1456.6
165°	1343.2	1351.1	1359.0	1361.0	1366.9	1374.8	1378.7	1390.9	1415.0	1433.1	1435.1
167.5°	1364.7	1368.4	1372.2	1373.1	1378.1	1384.8	1388.2	1396.0	1411.9	1423.7	1424.5
170°	1378.7	1382.5	1386.3	1387.2	1387.5	1388.0	1388.2	1396.0	1411.9	1423.7	1423.7
172.5°	1386.3	1387.1	1388.0	1388.2	1388.2	1388.2	1388.2	1394.4	1406.9	1416.3	1415.6
175°	1396.6	1396.6	1396.6	1396.6	1393.8	1390.1	1388.2	1392.1	1400.0	1406.0	1406.0
177.5°	1396.6	1396.6	1396.6	1396.6	1394.4	1391.5	1390.1	1393.1	1399.4	1404.1	1403.3
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1316.1	1312.5	1316.1	1313.7	1314.8	1311.2	1300.3	1296.6	1300.3	1304.0	1304.0
5°	1331.9	1329.4	1331.9	1331.9	1330.7	1328.2	1316.1	1313.7	1316.1	1317.3	1314.8
7.5°	1336.7	1333.1	1336.7	1334.3	1334.3	1331.9	1319.7	1317.3	1318.5	1322.2	1318.5
10°	1336.7	1333.1	1336.7	1335.5	1334.3	1331.9	1319.7	1314.8	1314.8	1318.5	1314.8
12.5°	1330.7	1328.2	1330.7	1328.2	1328.2	1325.8	1313.7	1308.8	1310.0	1311.2	1306.3
15°	1320.9	1317.3	1320.9	1318.5	1319.7	1316.1	1302.7	1297.9	1297.9	1300.3	1291.8
17.5°	1306.3	1301.5	1306.3	1305.2	1304.0	1301.5	1289.4	1284.5	1283.3	1284.5	1278.4
20°	1289.4	1285.7	1289.4	1288.1	1288.1	1283.3	1271.1	1265.1	1265.1	1265.1	1259.0
22.5°	1262.7	1259.0	1262.7	1265.1	1265.1	1263.9	1252.9	1244.4	1242.1	1242.1	1234.7
25°	1232.3	1228.7	1232.3	1232.3	1231.1	1232.3	1228.7	1223.8	1220.2	1216.5	1209.2
27.5°	1203.1	1200.8	1203.1	1200.8	1203.1	1199.5	1198.3	1197.1	1192.3	1188.6	1178.9
30°	1174.0	1171.6	1174.0	1171.6	1169.2	1166.8	1160.7	1158.2	1163.1	1160.7	1144.9
32.5°	1137.6	1135.2	1137.6	1137.6	1135.2	1135.2	1125.5	1121.9	1123.0	1130.4	1115.8
35°	1100.0	1096.3	1100.0	1098.8	1100.0	1096.3	1090.3	1089.1	1084.2	1092.7	1081.8
37.5°	1056.2	1052.6	1056.2	1056.2	1056.2	1058.7	1053.9	1050.2	1042.9	1053.9	1045.4
40°	1011.3	1006.4	1011.3	1010.2	1011.3	1013.8	1011.3	1008.9	1001.7	1010.2	1002.8
42.5°	960.4	959.1	960.4	961.6	961.6	966.4	970.1	965.2	962.8	956.7	961.6
45°	905.7	903.3	905.7	908.1	909.3	911.8	922.7	922.7	919.1	909.3	916.7
47.5°	847.4	841.3	847.4	854.7	854.7	858.4	869.3	877.8	871.8	859.5	863.3
50°	785.5	786.8	785.5	790.4	790.4	803.7	812.2	820.7	826.8	812.2	795.3
52.5°	724.9	723.6	724.9	728.5	733.3	739.4	754.0	762.4	772.2	763.7	737.0
55°	664.1	666.6	664.1	665.3	667.7	671.4	693.3	701.8	720.0	709.0	681.1
57.5°	603.4	599.8	603.4	605.8	607.1	610.7	628.9	644.7	655.6	656.8	622.8
60°	533.0	528.2	533.0	543.9	546.4	548.8	565.7	580.3	590.1	593.7	558.5
62.5°	471.0	462.5	471.0	478.4	483.2	489.2	501.5	523.3	531.8	533.0	483.2
65°	405.5	401.9	405.5	420.1	421.3	428.6	441.9	457.7	475.9	473.5	401.9
67.5°	346.0	346.0	346.0	355.7	363.1	366.7	383.7	390.9	414.0	416.5	335.1
70°	291.4	290.2	291.4	298.7	303.5	312.0	327.8	336.3	354.6	360.6	272.0
72.5°	239.1	238.0	239.1	245.2	250.1	257.4	270.7	280.4	296.3	303.5	211.3
75°	193.1	190.6	193.1	197.9	196.7	206.4	217.3	227.0	241.6	246.5	156.6
77.5°	148.1	148.1	148.1	153.0	153.0	162.7	167.5	179.7	188.2	195.5	115.3
80°	110.5	109.3	110.5	111.7	111.7	116.6	125.1	133.5	140.8	140.8	78.9
82.5°	77.7	75.3	77.7	77.7	77.7	80.1	85.0	87.4	92.2	95.9	49.8
85°	48.6	48.6	48.6	49.8	48.6	51.0	52.2	54.7	54.7	52.2	30.3
87.5°	31.6	30.3	31.6	30.3	30.3	29.1	29.1	29.1	28.0	26.7	17.0
90°	35.6	35.6	35.6	35.6	35.6	47.4	63.3	71.2	61.3	41.3	26.2
92.5°	142.7	114.3	142.7	171.0	178.0	252.4	351.6	401.2	352.2	254.4	180.9
95°	497.3	411.5	497.3	583.1	604.6	793.9	1046.4	1172.5	990.3	625.8	352.5
97.5°	1191.6	1028.3	1191.6	1354.8	1395.7	1515.3	1674.9	1754.7	1450.8	843.0	387.1
100°	1716.7	1522.2	1716.7	1911.3	1959.9	1951.2	1939.5	1933.7	1596.4	922.0	416.2
102.5°	2233.4	2066.8	2233.4	2400.0	2441.7	2289.2	2085.9	1984.3	1642.3	958.3	445.2
105°	2892.1	2802.6	2892.1	2981.7	3004.0	2662.3	2206.5	1978.7	1647.5	985.1	488.3
107.5°	3323.6	3345.2	3323.6	3301.9	3296.5	2819.8	2184.1	1866.2	1574.2	990.1	552.1
110°	3488.1	3581.5	3488.1	3394.8	3371.5	2838.5	2127.9	1772.5	1509.2	982.6	587.7



TEST NUMBER: P935467

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3502.8	3646.1	3502.8	3359.5	3323.7	2778.1	2050.8	1687.1	1452.4	982.9	630.8
115°	3409.9	3608.6	3409.9	3211.2	3161.5	2636.0	1935.3	1585.0	1387.3	992.0	695.4
117.5°	3213.0	3433.4	3213.0	2992.6	2937.5	2463.2	1830.9	1514.7	1346.6	1010.4	758.3
120°	3054.3	3268.4	3054.3	2840.1	2786.6	2353.2	1775.5	1486.5	1332.8	1025.4	794.8
122.5°	2899.8	3110.9	2899.8	2688.5	2635.7	2245.5	1725.1	1465.0	1325.6	1046.9	837.9
125°	2679.3	2873.8	2679.3	2484.7	2436.1	2104.6	1662.6	1441.6	1319.7	1076.0	893.2
127.5°	2481.0	2645.1	2481.0	2316.8	2275.8	1991.2	1611.6	1421.9	1316.3	1105.1	946.7
130°	2364.1	2515.7	2364.1	2212.5	2174.6	1921.2	1583.3	1414.4	1318.4	1126.3	982.3
132.5°	2258.1	2393.9	2258.1	2122.2	2088.3	1861.5	1559.0	1407.8	1319.7	1143.5	1011.3
135°	2112.8	2229.9	2112.8	1995.7	1966.5	1776.5	1523.2	1396.6	1318.5	1162.2	1045.1
137.5°	1996.2	2092.1	1996.2	1900.5	1876.5	1715.9	1501.8	1394.7	1326.6	1190.4	1088.2
140°	1916.3	2005.8	1916.3	1826.7	1804.3	1665.6	1480.7	1388.2	1328.0	1207.6	1117.2
142.5°	1850.0	1927.1	1850.0	1772.9	1753.7	1631.8	1469.3	1388.2	1332.8	1221.9	1138.8
145°	1750.7	1809.0	1750.7	1692.4	1677.8	1578.1	1445.2	1378.7	1332.8	1240.7	1171.6
147.5°	1674.5	1722.8	1674.5	1626.1	1614.1	1535.6	1431.1	1378.7	1341.9	1268.2	1212.9
150°	1626.5	1665.6	1626.5	1587.3	1577.5	1511.3	1422.9	1378.7	1346.7	1282.5	1234.5
152.5°	1585.4	1615.0	1585.4	1555.9	1548.5	1491.9	1416.5	1378.7	1349.8	1291.9	1248.5
155°	1538.2	1557.8	1538.2	1518.7	1513.8	1468.8	1408.8	1378.7	1356.7	1312.6	1279.4
157.5°	1500.9	1514.7	1500.9	1487.2	1483.7	1448.7	1402.1	1378.7	1363.5	1333.1	1310.3
160°	1478.6	1486.5	1478.6	1470.7	1468.7	1438.8	1398.7	1378.7	1366.7	1342.5	1324.4
162.5°	1464.1	1471.6	1464.1	1456.6	1454.7	1429.3	1395.6	1378.7	1370.0	1352.5	1339.4
165°	1443.0	1451.0	1443.0	1435.1	1433.1	1415.0	1390.9	1378.7	1374.8	1366.9	1361.0
167.5°	1427.9	1431.2	1427.9	1424.5	1423.7	1411.9	1396.0	1388.2	1384.8	1378.1	1373.1
170°	1423.7	1423.7	1423.7	1423.7	1423.7	1411.9	1396.0	1388.2	1388.0	1387.5	1387.2
172.5°	1412.6	1409.7	1412.6	1415.6	1416.3	1406.9	1394.4	1388.2	1388.2	1388.2	1388.2
175°	1406.0	1406.0	1406.0	1406.0	1406.0	1400.0	1392.1	1388.2	1390.1	1393.8	1396.6
177.5°	1399.9	1396.6	1399.9	1403.3	1404.1	1399.4	1393.1	1390.1	1391.5	1394.4	1396.6
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1301.5	1294.2	1294.2	1282.1	1277.3	1273.6	1267.5	1249.3	1244.4	1239.6	1246.9
5°	1312.5	1299.1	1289.4	1267.5	1249.3	1242.1	1219.0	1175.3	1146.1	1124.2	1112.1
7.5°	1314.8	1297.9	1279.6	1245.7	1202.0	1182.5	1112.1	1032.0	1010.2	990.7	978.6
10°	1312.5	1293.0	1267.5	1216.5	1113.3	1079.3	1008.9	956.7	943.4	939.7	943.4
12.5°	1304.0	1285.7	1250.5	1165.6	1021.0	998.0	956.7	926.3	923.9	930.0	962.8
15°	1289.4	1272.4	1231.1	1097.5	970.1	953.0	923.9	913.0	926.3	968.9	1067.2
17.5°	1274.8	1255.4	1204.4	1030.8	931.2	919.1	898.5	920.3	995.6	1052.6	1085.4
20°	1255.4	1232.3	1174.0	982.2	903.3	892.4	882.6	981.0	1038.0	1058.7	1076.9
22.5°	1232.3	1208.0	1132.7	948.2	874.1	865.7	871.8	1015.0	1038.0	1052.6	1068.4
25°	1202.0	1181.3	1084.2	921.5	851.1	841.3	864.4	1011.3	1024.7	1028.4	1059.9
27.5°	1174.0	1147.3	1033.2	897.2	823.2	819.5	870.5	995.6	1005.3	1008.9	1042.9
30°	1140.1	1100.0	976.1	871.8	794.0	792.8	871.8	976.1	973.7	983.5	1017.4
32.5°	1104.8	1029.5	911.8	840.2	766.1	764.9	863.3	947.0	944.5	957.9	983.5
35°	1072.1	974.9	824.3	803.7	730.9	732.1	842.6	913.0	914.2	926.3	942.2
37.5°	1038.0	927.6	728.5	763.7	696.9	696.9	814.6	881.4	879.0	882.6	904.5
40°	998.0	853.5	643.5	711.5	665.3	661.7	780.7	847.4	838.9	837.7	868.0
42.5°	955.5	772.2	580.3	642.3	628.9	624.0	739.4	806.1	790.4	794.0	832.8
45°	909.3	750.3	531.8	542.7	591.3	587.6	694.4	758.8	747.8	757.6	797.6
47.5°	863.3	706.6	516.0	450.4	551.2	550.0	644.7	712.6	706.6	716.3	758.8
50°	800.1	658.1	514.8	386.1	506.3	511.1	585.2	667.7	667.7	676.2	721.1
52.5°	718.8	598.6	467.4	349.7	454.0	468.6	533.0	628.9	631.3	639.9	679.9
55°	644.7	536.7	433.4	321.7	392.1	423.7	482.0	588.8	593.7	602.2	638.6
57.5°	576.7	446.8	426.1	288.9	335.1	365.4	437.1	550.0	552.4	559.7	594.9
60°	503.8	323.0	390.9	253.7	285.3	308.4	395.8	503.8	512.3	517.2	547.5
62.5°	421.3	234.3	354.6	229.5	261.0	265.8	361.8	460.2	471.0	474.8	493.0
65°	299.9	196.7	301.1	208.8	235.5	236.8	325.4	415.2	425.0	431.0	444.3
67.5°	202.8	160.3	229.5	189.4	216.2	217.3	290.2	363.1	376.4	381.3	389.8
70°	140.8	106.8	170.0	168.7	194.2	196.7	252.5	315.6	327.8	331.5	336.3
72.5°	103.2	86.2	140.8	151.8	171.2	173.6	213.7	262.2	274.4	278.1	280.4
75°	78.9	91.1	114.1	132.3	145.7	146.9	174.8	213.7	222.2	224.6	225.8
77.5°	63.1	85.0	83.8	106.8	118.9	116.6	137.2	165.1	172.4	172.4	172.4
80°	47.3	66.8	63.1	76.5	87.4	85.0	98.3	117.8	120.2	122.6	121.4
82.5°	35.2	42.5	42.5	48.6	58.3	55.8	65.5	76.5	76.5	76.5	78.9
85°	21.8	24.3	19.5	25.5	32.8	31.6	36.4	41.3	42.5	42.5	40.1
87.5°	13.4	11.0	6.1	9.7	14.6	14.6	17.0	18.2	17.0	17.0	17.0
90°	24.3	16.9	9.4	16.9	24.3	26.2	41.3	61.3	71.2	63.3	47.4
92.5°	165.0	101.2	37.5	101.2	165.0	180.9	254.4	352.2	401.2	351.6	252.4
95°	323.3	206.6	90.0	206.6	323.3	352.5	625.8	990.3	1172.5	1046.4	793.9
97.5°	361.4	258.5	155.6	258.5	361.4	387.1	843.0	1450.8	1754.7	1674.9	1515.3
100°	392.8	299.5	206.2	299.5	392.8	416.2	922.0	1596.4	1933.7	1939.5	1951.2
102.5°	423.4	336.4	249.3	336.4	423.4	445.2	958.3	1642.3	1984.3	2085.9	2289.2
105°	469.9	396.2	322.4	396.2	469.9	488.3	985.1	1647.5	1978.7	2206.5	2662.3
107.5°	534.9	466.2	397.5	466.2	534.9	552.1	990.1	1574.2	1866.2	2184.1	2819.8
110°	572.2	510.1	448.1	510.1	572.2	587.7	982.6	1509.2	1772.5	2127.9	2838.5



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	616.1	556.9	497.7	556.9	616.1	630.8	982.9	1452.4	1687.1	2050.8	2778.1
115°	681.8	627.3	572.7	627.3	681.8	695.4	992.0	1387.3	1585.0	1935.3	2636.0
117.5°	745.9	696.3	646.7	696.3	745.9	758.3	1010.4	1346.6	1514.7	1830.9	2463.2
120°	783.1	736.5	689.8	736.5	783.1	794.8	1025.4	1332.8	1486.5	1775.5	2353.2
122.5°	826.1	779.1	732.0	779.1	826.1	837.9	1046.9	1325.6	1465.0	1725.1	2245.5
125°	882.5	839.6	796.7	839.6	882.5	893.2	1076.0	1319.7	1441.6	1662.6	2104.6
127.5°	935.8	892.6	849.2	892.6	935.8	946.7	1105.1	1316.3	1421.9	1611.6	1991.2
130°	970.6	924.0	877.3	924.0	970.6	982.3	1126.3	1318.4	1414.4	1583.3	1921.2
132.5°	999.7	953.0	906.3	953.0	999.7	1011.3	1143.5	1319.7	1407.8	1559.0	1861.5
135°	1034.5	992.0	949.5	992.0	1034.5	1045.1	1162.2	1318.5	1396.6	1523.2	1776.5
137.5°	1077.7	1035.6	993.5	1035.6	1077.7	1088.2	1190.4	1326.6	1394.7	1501.8	1715.9
140°	1107.6	1068.8	1030.1	1068.8	1107.6	1117.2	1207.6	1328.0	1388.2	1480.7	1665.6
142.5°	1129.8	1094.1	1058.2	1094.1	1129.8	1138.8	1221.9	1332.8	1388.2	1469.3	1631.8
145°	1163.9	1132.5	1101.3	1132.5	1163.9	1171.6	1240.7	1332.8	1378.7	1445.2	1578.1
147.5°	1205.3	1174.9	1144.5	1174.9	1205.3	1212.9	1268.2	1341.9	1378.7	1431.1	1535.6
150°	1227.6	1200.1	1172.5	1200.1	1227.6	1234.5	1282.5	1346.7	1378.7	1422.9	1511.3
152.5°	1243.2	1222.4	1201.6	1222.4	1243.2	1248.5	1291.9	1349.8	1378.7	1416.5	1491.9
155°	1275.6	1260.2	1244.8	1260.2	1275.6	1279.4	1312.6	1356.7	1378.7	1408.8	1468.8
157.5°	1306.6	1291.6	1276.6	1291.6	1306.6	1310.3	1333.1	1363.5	1378.7	1402.1	1448.7
160°	1321.5	1309.9	1298.2	1309.9	1321.5	1324.4	1342.5	1366.7	1378.7	1398.7	1438.8
162.5°	1337.2	1328.4	1319.7	1328.4	1337.2	1339.4	1352.5	1370.0	1378.7	1395.6	1429.3
165°	1359.0	1351.1	1343.2	1351.1	1359.0	1361.0	1366.9	1374.8	1378.7	1390.9	1415.0
167.5°	1372.2	1368.4	1364.7	1368.4	1372.2	1373.1	1378.1	1384.8	1388.2	1396.0	1411.9
170°	1386.3	1382.5	1378.7	1382.5	1386.3	1387.2	1387.5	1388.0	1388.2	1396.0	1411.9
172.5°	1388.0	1387.1	1386.3	1387.1	1388.0	1388.2	1388.2	1388.2	1388.2	1394.4	1406.9
175°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1393.8	1390.1	1388.2	1392.1	1400.0
177.5°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1394.4	1391.5	1390.1	1393.1	1399.4
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



TEST NUMBER: P935467

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1238.4	1234.7	1239.6	1226.2	1239.6	1234.7	1238.4	1246.9	1239.6	1244.4	1249.3
5°	1086.6	1080.6	1061.1	1045.4	1061.1	1080.6	1086.6	1112.1	1124.2	1146.1	1175.3
7.5°	971.2	966.4	961.6	951.9	961.6	966.4	971.2	978.6	990.7	1010.2	1032.0
10°	945.8	947.0	954.3	953.0	954.3	947.0	945.8	943.4	939.7	943.4	956.7
12.5°	1011.3	1022.3	1062.3	1059.9	1062.3	1022.3	1011.3	962.8	930.0	923.9	926.3
15°	1086.6	1090.3	1098.8	1100.0	1098.8	1090.3	1086.6	1067.2	968.9	926.3	913.0
17.5°	1093.9	1095.2	1101.2	1101.2	1101.2	1095.2	1093.9	1085.4	1052.6	995.6	920.3
20°	1087.8	1090.3	1102.4	1104.8	1102.4	1090.3	1087.8	1076.9	1058.7	1038.0	981.0
22.5°	1085.4	1090.3	1100.0	1098.8	1100.0	1090.3	1085.4	1068.4	1052.6	1038.0	1015.0
25°	1073.2	1073.2	1074.5	1075.7	1074.5	1073.2	1073.2	1059.9	1028.4	1024.7	1011.3
27.5°	1047.7	1050.2	1057.5	1056.2	1057.5	1050.2	1047.7	1042.9	1008.9	1005.3	995.6
30°	1024.7	1022.3	1016.2	1011.3	1016.2	1022.3	1024.7	1017.4	983.5	973.7	976.1
32.5°	985.8	979.7	973.7	970.1	973.7	979.7	985.8	983.5	957.9	944.5	947.0
35°	939.7	940.9	939.7	936.0	939.7	940.9	939.7	942.2	926.3	914.2	913.0
37.5°	907.0	909.3	908.1	903.3	908.1	909.3	907.0	904.5	882.6	879.0	881.4
40°	872.9	874.1	872.9	869.3	872.9	874.1	872.9	868.0	837.7	838.9	847.4
42.5°	840.2	838.9	835.3	832.8	835.3	838.9	840.2	832.8	794.0	790.4	806.1
45°	802.5	803.7	796.5	792.8	796.5	803.7	802.5	797.6	757.6	747.8	758.8
47.5°	764.9	764.9	758.8	755.2	758.8	764.9	764.9	758.8	716.3	706.6	712.6
50°	724.9	723.6	715.1	713.9	715.1	723.6	724.9	721.1	676.2	667.7	667.7
52.5°	678.7	678.7	679.9	682.3	679.9	678.7	678.7	679.9	639.9	631.3	628.9
55°	638.6	639.9	648.4	650.7	648.4	639.9	638.6	638.6	602.2	593.7	588.8
57.5°	597.3	597.3	603.4	603.4	603.4	597.3	597.3	594.9	559.7	552.4	550.0
60°	550.0	552.4	557.3	556.0	557.3	552.4	550.0	547.5	517.2	512.3	503.8
62.5°	500.2	502.6	503.8	501.5	503.8	502.6	500.2	493.0	474.8	471.0	460.2
65°	448.0	450.4	451.7	449.2	451.7	450.4	448.0	444.3	431.0	425.0	415.2
67.5°	394.6	393.4	392.1	397.0	392.1	393.4	394.6	389.8	381.3	376.4	363.1
70°	340.0	340.0	338.7	341.2	338.7	340.0	340.0	336.3	331.5	327.8	315.6
72.5°	281.7	280.4	285.3	281.7	285.3	280.4	281.7	280.4	278.1	274.4	262.2
75°	224.6	227.0	224.6	228.3	224.6	227.0	224.6	225.8	224.6	222.2	213.7
77.5°	171.2	173.6	171.2	171.2	171.2	173.6	171.2	172.4	172.4	172.4	165.1
80°	121.4	120.2	120.2	118.9	120.2	120.2	121.4	121.4	122.6	120.2	117.8
82.5°	77.7	76.5	76.5	78.9	76.5	76.5	77.7	78.9	76.5	76.5	76.5
85°	42.5	43.7	41.3	41.3	41.3	43.7	42.5	40.1	42.5	42.5	41.3
87.5°	15.7	14.6	14.6	14.6	14.6	14.6	15.7	17.0	17.0	17.0	18.2
90°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	47.4	63.3	71.2	61.3
92.5°	178.0	171.0	142.7	114.3	142.7	171.0	178.0	252.4	351.6	401.2	352.2
95°	604.6	583.1	497.3	411.5	497.3	583.1	604.6	793.9	1046.4	1172.5	990.3
97.5°	1395.7	1354.8	1191.6	1028.3	1191.6	1354.8	1395.7	1515.3	1674.9	1754.7	1450.8
100°	1959.9	1911.3	1716.7	1522.2	1716.7	1911.3	1959.9	1951.2	1939.5	1933.7	1596.4
102.5°	2441.7	2400.0	2233.4	2066.8	2233.4	2400.0	2441.7	2289.2	2085.9	1984.3	1642.3
105°	3004.0	2981.7	2892.1	2802.6	2892.1	2981.7	3004.0	2662.3	2206.5	1978.7	1647.5
107.5°	3296.5	3301.9	3323.6	3345.2	3323.6	3301.9	3296.5	2819.8	2184.1	1866.2	1574.2
110°	3371.5	3394.8	3488.1	3581.5	3488.1	3394.8	3371.5	2838.5	2127.9	1772.5	1509.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3323.7	3359.5	3502.8	3646.1	3502.8	3359.5	3323.7	2778.1	2050.8	1687.1	1452.4
115°	3161.5	3211.2	3409.9	3608.6	3409.9	3211.2	3161.5	2636.0	1935.3	1585.0	1387.3
117.5°	2937.5	2992.6	3213.0	3433.4	3213.0	2992.6	2937.5	2463.2	1830.9	1514.7	1346.6
120°	2786.6	2840.1	3054.3	3268.4	3054.3	2840.1	2786.6	2353.2	1775.5	1486.5	1332.8
122.5°	2635.7	2688.5	2899.8	3110.9	2899.8	2688.5	2635.7	2245.5	1725.1	1465.0	1325.6
125°	2436.1	2484.7	2679.3	2873.8	2679.3	2484.7	2436.1	2104.6	1662.6	1441.6	1319.7
127.5°	2275.8	2316.8	2481.0	2645.1	2481.0	2316.8	2275.8	1991.2	1611.6	1421.9	1316.3
130°	2174.6	2212.5	2364.1	2515.7	2364.1	2212.5	2174.6	1921.2	1583.3	1414.4	1318.4
132.5°	2088.3	2122.2	2258.1	2393.9	2258.1	2122.2	2088.3	1861.5	1559.0	1407.8	1319.7
135°	1966.5	1995.7	2112.8	2229.9	2112.8	1995.7	1966.5	1776.5	1523.2	1396.6	1318.5
137.5°	1876.5	1900.5	1996.2	2092.1	1996.2	1900.5	1876.5	1715.9	1501.8	1394.7	1326.6
140°	1804.3	1826.7	1916.3	2005.8	1916.3	1826.7	1804.3	1665.6	1480.7	1388.2	1328.0
142.5°	1753.7	1772.9	1850.0	1927.1	1850.0	1772.9	1753.7	1631.8	1469.3	1388.2	1332.8
145°	1677.8	1692.4	1750.7	1809.0	1750.7	1692.4	1677.8	1578.1	1445.2	1378.7	1332.8
147.5°	1614.1	1626.1	1674.5	1722.8	1674.5	1626.1	1614.1	1535.6	1431.1	1378.7	1341.9
150°	1577.5	1587.3	1626.5	1665.6	1626.5	1587.3	1577.5	1511.3	1422.9	1378.7	1346.7
152.5°	1548.5	1555.9	1585.4	1615.0	1585.4	1555.9	1548.5	1491.9	1416.5	1378.7	1349.8
155°	1513.8	1518.7	1538.2	1557.8	1538.2	1518.7	1513.8	1468.8	1408.8	1378.7	1356.7
157.5°	1483.7	1487.2	1500.9	1514.7	1500.9	1487.2	1483.7	1448.7	1402.1	1378.7	1363.5
160°	1468.7	1470.7	1478.6	1486.5	1478.6	1470.7	1468.7	1438.8	1398.7	1378.7	1366.7
162.5°	1454.7	1456.6	1464.1	1471.6	1464.1	1456.6	1454.7	1429.3	1395.6	1378.7	1370.0
165°	1433.1	1435.1	1443.0	1451.0	1443.0	1435.1	1433.1	1415.0	1390.9	1378.7	1374.8
167.5°	1423.7	1424.5	1427.9	1431.2	1427.9	1424.5	1423.7	1411.9	1396.0	1388.2	1384.8
170°	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1411.9	1396.0	1388.2	1388.0
172.5°	1416.3	1415.6	1412.6	1409.7	1412.6	1415.6	1416.3	1406.9	1394.4	1388.2	1388.2
175°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1400.0	1392.1	1388.2	1390.1
177.5°	1404.1	1403.3	1399.9	1396.6	1399.9	1403.3	1404.1	1399.4	1393.1	1390.1	1391.5
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1267.5	1273.6	1277.3	1282.1	1294.2
5°	1219.0	1242.1	1249.3	1267.5	1289.4
7.5°	1112.1	1182.5	1202.0	1245.7	1279.6
10°	1008.9	1079.3	1113.3	1216.5	1267.5
12.5°	956.7	998.0	1021.0	1165.6	1250.5
15°	923.9	953.0	970.1	1097.5	1231.1
17.5°	898.5	919.1	931.2	1030.8	1204.4
20°	882.6	892.4	903.3	982.2	1174.0
22.5°	871.8	865.7	874.1	948.2	1132.7
25°	864.4	841.3	851.1	921.5	1084.2
27.5°	870.5	819.5	823.2	897.2	1033.2
30°	871.8	792.8	794.0	871.8	976.1
32.5°	863.3	764.9	766.1	840.2	911.8
35°	842.6	732.1	730.9	803.7	824.3
37.5°	814.6	696.9	696.9	763.7	728.5
40°	780.7	661.7	665.3	711.5	643.5
42.5°	739.4	624.0	628.9	642.3	580.3
45°	694.4	587.6	591.3	542.7	531.8
47.5°	644.7	550.0	551.2	450.4	516.0
50°	585.2	511.1	506.3	386.1	514.8
52.5°	533.0	468.6	454.0	349.7	467.4
55°	482.0	423.7	392.1	321.7	433.4
57.5°	437.1	365.4	335.1	288.9	426.1
60°	395.8	308.4	285.3	253.7	390.9
62.5°	361.8	265.8	261.0	229.5	354.6
65°	325.4	236.8	235.5	208.8	301.1
67.5°	290.2	217.3	216.2	189.4	229.5
70°	252.5	196.7	194.2	168.7	170.0
72.5°	213.7	173.6	171.2	151.8	140.8
75°	174.8	146.9	145.7	132.3	114.1
77.5°	137.2	116.6	118.9	106.8	83.8
80°	98.3	85.0	87.4	76.5	63.1
82.5°	65.5	55.8	58.3	48.6	42.5
85°	36.4	31.6	32.8	25.5	19.5
87.5°	17.0	14.6	14.6	9.7	6.1
90°	41.3	26.2	24.3	16.9	9.4
92.5°	254.4	180.9	165.0	101.2	37.5
95°	625.8	352.5	323.3	206.6	90.0
97.5°	843.0	387.1	361.4	258.5	155.6
100°	922.0	416.2	392.8	299.5	206.2
102.5°	958.3	445.2	423.4	336.4	249.3
105°	985.1	488.3	469.9	396.2	322.4
107.5°	990.1	552.1	534.9	466.2	397.5
110°	982.6	587.7	572.2	510.1	448.1



TEST NUMBER: P935467

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	982.9	630.8	616.1	556.9	497.7
115°	992.0	695.4	681.8	627.3	572.7
117.5°	1010.4	758.3	745.9	696.3	646.7
120°	1025.4	794.8	783.1	736.5	689.8
122.5°	1046.9	837.9	826.1	779.1	732.0
125°	1076.0	893.2	882.5	839.6	796.7
127.5°	1105.1	946.7	935.8	892.6	849.2
130°	1126.3	982.3	970.6	924.0	877.3
132.5°	1143.5	1011.3	999.7	953.0	906.3
135°	1162.2	1045.1	1034.5	992.0	949.5
137.5°	1190.4	1088.2	1077.7	1035.6	993.5
140°	1207.6	1117.2	1107.6	1068.8	1030.1
142.5°	1221.9	1138.8	1129.8	1094.1	1058.2
145°	1240.7	1171.6	1163.9	1132.5	1101.3
147.5°	1268.2	1212.9	1205.3	1174.9	1144.5
150°	1282.5	1234.5	1227.6	1200.1	1172.5
152.5°	1291.9	1248.5	1243.2	1222.4	1201.6
155°	1312.6	1279.4	1275.6	1260.2	1244.8
157.5°	1333.1	1310.3	1306.6	1291.6	1276.6
160°	1342.5	1324.4	1321.5	1309.9	1298.2
162.5°	1352.5	1339.4	1337.2	1328.4	1319.7
165°	1366.9	1361.0	1359.0	1351.1	1343.2
167.5°	1378.1	1373.1	1372.2	1368.4	1364.7
170°	1387.5	1387.2	1386.3	1382.5	1378.7
172.5°	1388.2	1388.2	1388.0	1387.1	1386.3
175°	1393.8	1396.6	1396.6	1396.6	1396.6
177.5°	1394.4	1396.6	1396.6	1396.6	1396.6
180°	1396.6	1396.6	1396.6	1396.6	1396.6



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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	8.35	9.04	9.48	10.16	11.73	11.19	11.87	12.32	13.00	14.57
	3H	8.81	9.43	9.95	10.56	12.14	12.52	13.14	13.66	14.27	15.85
	4H	9.00	9.58	10.15	10.71	12.30	12.96	13.54	14.11	14.68	16.26
	6H	9.11	9.64	10.26	10.78	12.38	13.24	13.77	14.40	14.91	16.51
	8H	9.10	9.61	10.26	10.76	12.35	13.31	13.82	14.47	14.97	16.56
	12H	9.07	9.55	10.23	10.70	12.31	13.34	13.83	14.51	14.97	16.58
4H	2H	9.36	9.95	10.52	11.08	12.67	11.57	12.16	12.73	13.29	14.88
	3H	10.37	10.86	11.54	12.02	13.62	13.07	13.55	14.23	14.71	16.31
	4H	10.64	11.09	11.81	12.24	13.86	13.59	14.04	14.75	15.18	16.80
	6H	10.76	11.14	11.93	12.31	13.92	13.95	14.33	15.12	15.50	17.11
	8H	10.76	11.12	11.93	12.28	13.90	14.05	14.41	15.22	15.57	17.19
	12H	10.72	11.04	11.90	12.21	13.84	14.10	14.42	15.28	15.60	17.23
8H	4H	11.08	11.44	12.25	12.60	14.23	13.70	14.06	14.87	15.22	16.84
	6H	11.34	11.63	12.53	12.84	14.46	14.13	14.42	15.32	15.63	17.25
	8H	11.38	11.63	12.57	12.82	14.46	14.28	14.54	15.48	15.72	17.36
	12H	11.35	11.58	12.55	12.76	14.43	14.37	14.60	15.57	15.78	17.45
12H	4H	11.08	11.40	12.27	12.58	14.21	13.65	13.98	14.84	15.15	16.78
	6H	11.40	11.65	12.59	12.83	14.48	14.13	14.38	15.32	15.56	17.21
	8H	11.45	11.68	12.65	12.86	14.53	14.28	14.51	15.48	15.68	17.36