

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: P935759

Luminaire Tested: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935759
REPORT IS A COMBINATION OF REPORTS P933766 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

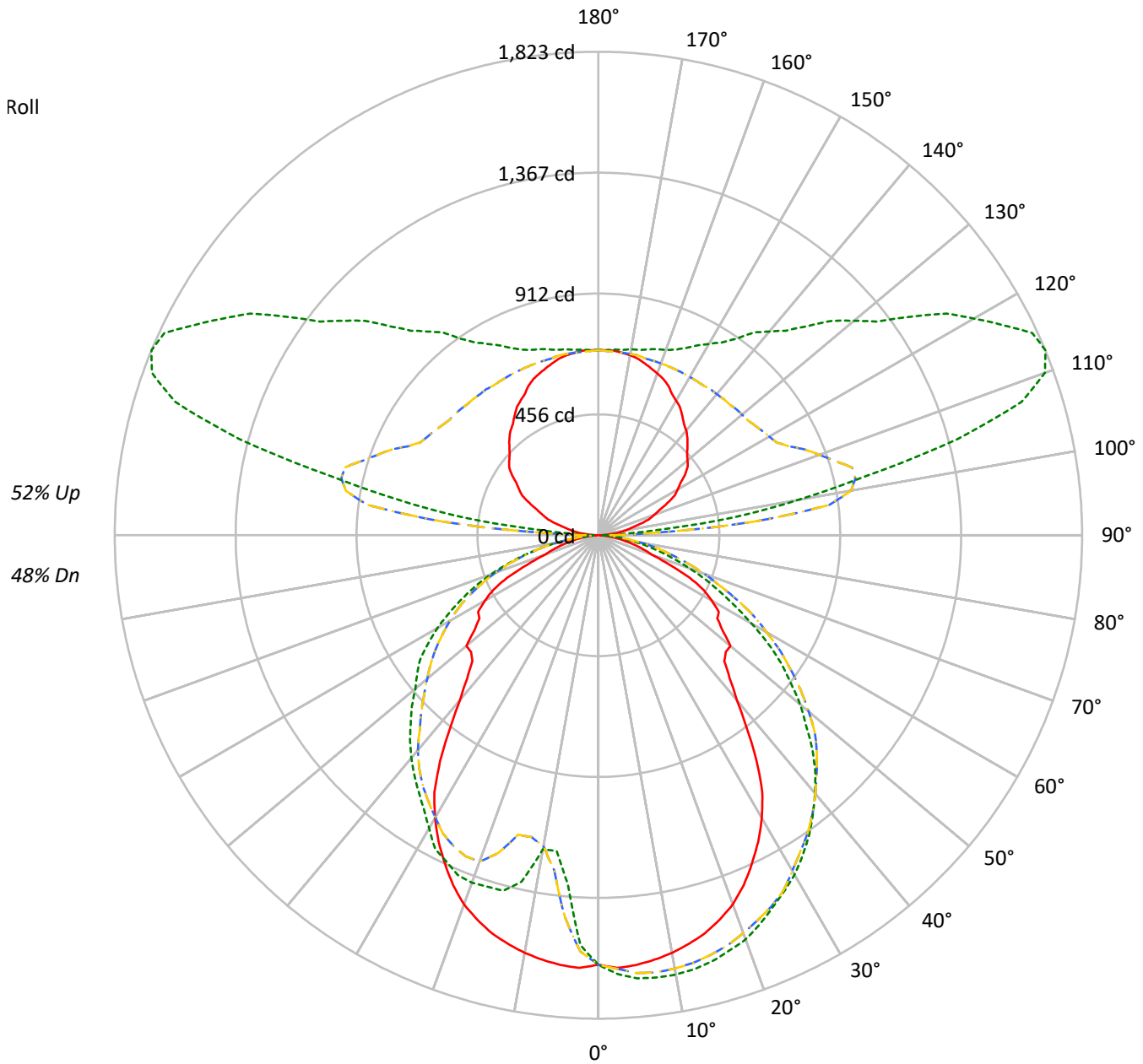
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8727.6 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.2
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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CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15025	15025	15025	15025
5°	15120	15167	15120	11925
10°	15002	14940	15002	10681
15°	14823	14617	14823	12204
20°	14496	14233	14496	12230
25°	13844	13673	13844	11971
30°	13009	13209	13009	11402
35°	11579	12622	11579	10777
40°	9631	11931	9631	10304
45°	8589	11121	8589	9761
50°	9105	10156	9105	9215
55°	8543	9116	8543	8900
60°	8773	7743	8773	8152
65°	7917	6401	7917	7154
70°	5443	5100	5443	5996
75°	4722	3770	4722	4515
80°	3730	2493	3730	2714
85°	2029	1321	2029	1120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	1.7
10°-20°	415.0	4.8
20°-30°	641.5	7.4
30°-40°	765.8	8.8
40°-50°	770.3	8.8
50°-60°	670.2	7.7
60°-70°	475.2	5.4
70°-80°	251.4	2.9
80°-90°	65.3	0.7
90°-100°	340.4	3.9
100°-110°	894.9	10.3
110°-120°	927.9	10.6
120°-130°	744.3	8.5
130°-140°	584.0	6.7
140°-150°	448.2	5.1
150°-160°	322.8	3.7
160°-170°	197.5	2.3
170°-180°	66.7	0.8
0°-30°	1202.6	13.8
0°-40°	1968.4	22.6
0°-60°	3408.9	39.1
0°-90°	4200.8	48.1
90°-120°	2163.2	24.8
90°-150°	3939.7	45.1
90°-180°	4527.0	51.9
0°-180°	8727.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1619	1619	1619	1619	1619	
5°	1627	1677	1627	1319	1627	154
15°	1553	1662	1553	1388	1553	437
25°	1368	1550	1368	1357	1368	628
35°	1040	1383	1040	1181	1040	643
45°	671	1140	671	1000	671	537
55°	547	841	547	821	547	503
65°	380	507	380	567	380	363
75°	144	240	144	288	144	151
85°	24	61	24	52	24	33
90°	5	18	5	18	5	5
95°	45	206	45	206	45	50
105°	161	1401	161	1401	161	171
115°	286	1804	286	1804	286	283
125°	398	1437	398	1437	398	354
135°	475	1115	475	1115	475	367
145°	551	904	551	904	551	345
155°	622	779	622	779	622	286
165°	672	726	672	726	672	190
175°	698	703	698	703	698	66
180°	698	698	698	698	698	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1632.9	1632.9	1642.1	1645.2	1645.2	1640.6	1636.0	1640.6	1654.4	1659.0	1657.4
5°	1626.8	1639.1	1655.9	1659.0	1662.1	1660.5	1657.4	1660.5	1675.8	1678.9	1680.4
7.5°	1614.5	1637.5	1659.0	1663.6	1668.1	1663.6	1662.1	1665.1	1680.4	1683.5	1683.5
10°	1599.2	1631.4	1655.9	1659.0	1663.6	1659.0	1659.0	1665.1	1680.4	1683.5	1685.0
12.5°	1577.8	1622.2	1645.2	1648.2	1654.4	1652.8	1651.3	1657.4	1672.7	1675.8	1675.8
15°	1553.3	1605.4	1626.8	1629.8	1640.6	1637.5	1637.5	1643.7	1660.5	1665.1	1663.6
17.5°	1519.6	1583.9	1608.4	1613.0	1620.7	1619.2	1620.7	1626.8	1642.1	1645.2	1646.7
20°	1481.3	1554.8	1583.9	1588.5	1596.2	1596.2	1596.2	1603.9	1619.2	1625.3	1625.3
22.5°	1429.2	1524.2	1554.8	1557.9	1567.0	1567.0	1570.1	1580.9	1594.6	1596.2	1596.2
25°	1367.9	1490.4	1516.5	1525.7	1534.9	1539.5	1544.1	1550.2	1554.8	1553.3	1554.8
27.5°	1303.6	1447.5	1481.3	1487.4	1499.7	1504.3	1510.4	1511.9	1513.4	1518.0	1515.0
30°	1231.6	1387.8	1438.4	1444.5	1464.5	1467.4	1461.4	1464.5	1472.1	1475.1	1478.2
32.5°	1150.4	1299.0	1393.9	1407.7	1426.2	1416.9	1415.4	1420.0	1432.2	1432.2	1435.3
35°	1040.1	1230.0	1352.6	1364.9	1378.7	1367.9	1374.0	1375.6	1383.3	1387.8	1386.3
37.5°	919.1	1170.3	1309.7	1318.9	1329.6	1315.8	1325.1	1329.6	1335.7	1332.7	1332.7
40°	811.8	1076.9	1259.2	1265.3	1274.5	1263.8	1272.9	1276.0	1279.1	1276.0	1274.5
42.5°	732.2	974.2	1205.6	1213.2	1207.0	1214.7	1217.8	1224.0	1219.3	1213.2	1213.2
45°	670.9	946.7	1147.3	1156.5	1147.3	1159.6	1164.2	1164.2	1150.4	1147.3	1145.8
47.5°	651.0	891.5	1089.1	1089.1	1084.6	1099.9	1107.5	1096.8	1083.0	1078.4	1078.4
50°	649.5	830.2	1009.4	1003.4	1024.8	1043.2	1035.5	1024.8	1014.1	997.2	997.2
52.5°	589.7	755.2	906.9	929.8	963.5	974.2	962.0	951.2	932.9	925.3	919.1
55°	546.9	677.1	813.4	859.4	894.6	908.3	885.4	874.7	847.1	842.5	839.4
57.5°	537.7	563.7	727.7	785.9	828.7	827.2	813.4	793.5	770.5	765.9	764.4
60°	493.2	407.5	635.7	704.7	749.0	744.5	732.2	713.8	692.4	689.3	686.3
62.5°	447.3	295.6	531.5	609.6	672.4	670.9	660.2	632.6	617.3	609.6	603.6
65°	379.9	248.2	378.4	507.1	597.4	600.5	577.5	557.6	540.7	531.5	530.0
67.5°	289.5	202.2	255.8	422.8	525.4	522.4	493.2	484.1	462.6	458.0	448.9
70°	214.4	134.8	177.7	343.1	454.9	447.3	424.3	413.6	393.7	383.0	376.8
72.5°	177.7	108.8	130.2	266.6	383.0	373.7	353.8	341.6	324.8	315.5	309.4
75°	144.0	114.9	99.6	197.6	310.9	304.9	286.5	274.2	260.4	248.2	249.6
77.5°	105.7	107.3	79.7	145.5	246.7	237.4	226.7	211.4	205.3	193.0	193.0
80°	79.7	84.3	59.7	99.6	177.7	177.7	168.5	157.8	147.1	140.9	140.9
82.5°	53.6	53.6	44.4	62.8	121.0	116.4	110.2	107.3	101.1	98.0	98.0
85°	24.5	30.6	27.6	38.3	65.9	69.0	69.0	65.9	64.4	61.3	62.8
87.5°	7.7	13.8	16.8	21.5	33.7	35.2	36.7	36.7	36.7	38.3	38.3
90°	4.7	8.4	12.2	13.1	20.6	30.6	35.6	31.6	23.7	17.8	17.8
92.5°	18.7	50.6	82.5	90.4	127.2	176.1	200.6	175.8	126.3	89.1	85.5
95°	45.0	103.3	161.7	176.2	312.9	495.1	586.3	523.2	397.0	302.3	291.6
97.5°	77.8	129.2	180.7	193.5	421.4	725.3	877.3	837.4	757.6	697.8	677.4
100°	103.1	149.8	196.4	208.1	461.0	798.2	966.8	969.7	975.6	979.9	955.6
102.5°	124.6	168.2	211.7	222.6	479.1	821.2	992.1	1043.0	1144.7	1220.9	1200.1
105°	161.2	198.1	235.0	244.2	492.6	823.8	989.3	1103.3	1331.1	1502.0	1490.8
107.5°	198.7	233.1	267.5	276.1	495.1	787.1	933.1	1092.1	1409.9	1648.2	1650.9
110°	224.0	255.1	286.0	293.8	491.3	754.6	886.2	1063.9	1419.3	1685.8	1697.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	248.8	278.4	307.9	315.4	491.4	726.2	843.6	1025.5	1389.2	1661.9	1679.8
115°	286.3	313.6	341.0	347.8	496.0	693.6	792.5	967.6	1318.0	1580.8	1605.6
117.5°	323.4	348.2	373.0	379.2	505.3	673.3	757.3	915.4	1231.6	1468.7	1496.2
120°	345.0	368.3	391.7	397.5	512.8	666.5	743.3	887.8	1176.6	1393.3	1420.1
122.5°	366.0	389.6	413.1	419.0	523.5	662.8	732.5	862.6	1122.8	1317.8	1344.3
125°	398.4	419.8	441.3	446.6	538.0	659.9	720.8	831.3	1052.2	1218.0	1242.3
127.5°	424.6	446.2	467.9	473.3	552.5	658.1	710.9	805.8	995.6	1137.9	1158.4
130°	438.6	462.0	485.3	491.1	563.2	659.2	707.2	791.7	960.6	1087.3	1106.2
132.5°	453.2	476.6	499.9	505.7	571.8	659.9	703.9	779.5	930.8	1044.2	1061.1
135°	474.8	496.0	517.2	522.5	581.1	659.2	698.3	761.7	888.3	983.3	997.9
137.5°	496.8	517.8	538.8	544.1	595.1	663.3	697.3	750.8	857.9	938.2	950.1
140°	515.0	534.4	553.8	558.7	603.8	664.0	694.1	740.3	832.8	902.2	913.4
142.5°	529.1	547.0	564.9	569.4	611.0	666.4	694.1	734.7	815.9	876.8	886.4
145°	550.7	566.3	581.9	585.8	620.3	666.4	689.4	722.6	789.0	838.9	846.2
147.5°	572.2	587.4	602.7	606.5	634.1	670.9	689.4	715.5	767.8	807.0	813.1
150°	586.3	600.0	613.8	617.2	641.3	673.3	689.4	711.5	755.6	788.8	793.6
152.5°	600.8	611.3	621.7	624.3	646.0	674.9	689.4	708.2	745.9	774.2	777.9
155°	622.4	630.1	637.8	639.7	656.2	678.3	689.4	704.4	734.4	756.9	759.3
157.5°	638.3	645.8	653.3	655.2	666.6	681.8	689.4	701.0	724.4	741.9	743.6
160°	649.1	654.9	660.8	662.2	671.3	683.3	689.4	699.3	719.3	734.4	735.4
162.5°	659.9	664.2	668.6	669.7	676.2	685.0	689.4	697.8	714.7	727.4	728.3
165°	671.5	675.5	679.5	680.5	683.5	687.4	689.4	695.4	707.5	716.5	717.5
167.5°	682.4	684.2	686.1	686.6	689.1	692.4	694.1	698.1	705.9	711.9	712.4
170°	689.4	691.3	693.2	693.6	693.8	694.0	694.1	698.1	705.9	711.9	711.9
172.5°	693.2	693.5	694.0	694.1	694.1	694.1	694.1	697.2	703.4	708.1	707.7
175°	698.3	698.3	698.3	698.3	696.9	695.0	694.1	696.1	700.0	702.9	702.9
177.5°	698.3	698.3	698.3	698.3	697.2	695.7	695.0	696.5	699.7	702.0	701.6
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1660.5	1655.9	1660.5	1657.4	1659.0	1654.4	1640.6	1636.0	1640.6	1645.2	1645.2
5°	1680.4	1677.4	1680.4	1680.4	1678.9	1675.8	1660.5	1657.4	1660.5	1662.1	1659.0
7.5°	1686.5	1682.0	1686.5	1683.5	1683.5	1680.4	1665.1	1662.1	1663.6	1668.1	1663.6
10°	1686.5	1682.0	1686.5	1685.0	1683.5	1680.4	1665.1	1659.0	1659.0	1663.6	1659.0
12.5°	1678.9	1675.8	1678.9	1675.8	1675.8	1672.7	1657.4	1651.3	1652.8	1654.4	1648.2
15°	1666.6	1662.1	1666.6	1663.6	1665.1	1660.5	1643.7	1637.5	1637.5	1640.6	1629.8
17.5°	1648.2	1642.1	1648.2	1646.7	1645.2	1642.1	1626.8	1620.7	1619.2	1620.7	1613.0
20°	1626.8	1622.2	1626.8	1625.3	1625.3	1619.2	1603.9	1596.2	1596.2	1596.2	1588.5
22.5°	1593.1	1588.5	1593.1	1596.2	1596.2	1594.6	1580.9	1570.1	1567.0	1567.0	1557.9
25°	1554.8	1550.2	1554.8	1554.8	1553.3	1554.8	1550.2	1544.1	1539.5	1534.9	1525.7
27.5°	1518.0	1515.0	1518.0	1515.0	1518.0	1513.4	1511.9	1510.4	1504.3	1499.7	1487.4
30°	1481.3	1478.2	1481.3	1478.2	1475.1	1472.1	1464.5	1461.4	1467.4	1464.5	1444.5
32.5°	1435.3	1432.2	1435.3	1435.3	1432.2	1432.2	1420.0	1415.4	1416.9	1426.2	1407.7
35°	1387.8	1383.3	1387.8	1386.3	1387.8	1383.3	1375.6	1374.0	1367.9	1378.7	1364.9
37.5°	1332.7	1328.1	1332.7	1332.7	1332.7	1335.7	1329.6	1325.1	1315.8	1329.6	1318.9
40°	1276.0	1269.9	1276.0	1274.5	1276.0	1279.1	1276.0	1272.9	1263.8	1274.5	1265.3
42.5°	1211.6	1210.1	1211.6	1213.2	1213.2	1219.3	1224.0	1217.8	1214.7	1207.0	1213.2
45°	1142.8	1139.7	1142.8	1145.8	1147.3	1150.4	1164.2	1164.2	1159.6	1147.3	1156.5
47.5°	1069.2	1061.6	1069.2	1078.4	1078.4	1083.0	1096.8	1107.5	1099.9	1084.6	1089.1
50°	991.1	992.6	991.1	997.2	997.2	1014.1	1024.8	1035.5	1043.2	1024.8	1003.4
52.5°	914.5	912.9	914.5	919.1	925.3	932.9	951.2	962.0	974.2	963.5	929.8
55°	837.9	841.0	837.9	839.4	842.5	847.1	874.7	885.4	908.3	894.6	859.4
57.5°	761.3	756.7	761.3	764.4	765.9	770.5	793.5	813.4	827.2	828.7	785.9
60°	672.4	666.4	672.4	686.3	689.3	692.4	713.8	732.2	744.5	749.0	704.7
62.5°	594.3	583.6	594.3	603.6	609.6	617.3	632.6	660.2	670.9	672.4	609.6
65°	511.6	507.1	511.6	530.0	531.5	540.7	557.6	577.5	600.5	597.4	507.1
67.5°	436.6	436.6	436.6	448.9	458.0	462.6	484.1	493.2	522.4	525.4	422.8
70°	367.7	366.1	367.7	376.8	383.0	393.7	413.6	424.3	447.3	454.9	343.1
72.5°	301.8	300.2	301.8	309.4	315.5	324.8	341.6	353.8	373.7	383.0	266.6
75°	243.6	240.5	243.6	249.6	248.2	260.4	274.2	286.5	304.9	310.9	197.6
77.5°	186.9	186.9	186.9	193.0	193.0	205.3	211.4	226.7	237.4	246.7	145.5
80°	139.4	137.9	139.4	140.9	140.9	147.1	157.8	168.5	177.7	177.7	99.6
82.5°	98.0	95.0	98.0	98.0	98.0	101.1	107.3	110.2	116.4	121.0	62.8
85°	61.3	61.3	61.3	62.8	61.3	64.4	65.9	69.0	69.0	65.9	38.3
87.5°	39.8	38.3	39.8	38.3	38.3	36.7	36.7	36.7	35.2	33.7	21.5
90°	17.8	17.8	17.8	17.8	17.8	23.7	31.6	35.6	30.6	20.6	13.1
92.5°	71.3	57.2	71.3	85.5	89.1	126.3	175.8	200.6	176.1	127.2	90.4
95°	248.6	205.7	248.6	291.6	302.3	397.0	523.2	586.3	495.1	312.9	176.2
97.5°	595.8	514.1	595.8	677.4	697.8	757.6	837.4	877.3	725.3	421.4	193.5
100°	858.4	761.1	858.4	955.6	979.9	975.6	969.7	966.8	798.2	461.0	208.1
102.5°	1116.7	1033.4	1116.7	1200.1	1220.9	1144.7	1043.0	992.1	821.2	479.1	222.6
105°	1446.1	1401.3	1446.1	1490.8	1502.0	1331.1	1103.3	989.3	823.8	492.6	244.2
107.5°	1661.8	1672.6	1661.8	1650.9	1648.2	1409.9	1092.1	933.1	787.1	495.1	276.1
110°	1744.1	1790.7	1744.1	1697.4	1685.8	1419.3	1063.9	886.2	754.6	491.3	293.8



TEST NUMBER: P935759

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1751.4	1823.1	1751.4	1679.8	1661.9	1389.2	1025.5	843.6	726.2	491.4	315.4
115°	1705.0	1804.3	1705.0	1605.6	1580.8	1318.0	967.6	792.5	693.6	496.0	347.8
117.5°	1606.5	1716.6	1606.5	1496.2	1468.7	1231.6	915.4	757.3	673.3	505.3	379.2
120°	1527.1	1634.2	1527.1	1420.1	1393.3	1176.6	887.8	743.3	666.5	512.8	397.5
122.5°	1449.8	1555.4	1449.8	1344.3	1317.8	1122.8	862.6	732.5	662.8	523.5	419.0
125°	1339.5	1436.9	1339.5	1242.3	1218.0	1052.2	831.3	720.8	659.9	538.0	446.6
127.5°	1240.4	1322.5	1240.4	1158.4	1137.9	995.6	805.8	710.9	658.1	552.5	473.3
130°	1182.0	1257.9	1182.0	1106.2	1087.3	960.6	791.7	707.2	659.2	563.2	491.1
132.5°	1129.0	1196.9	1129.0	1061.1	1044.2	930.8	779.5	703.9	659.9	571.8	505.7
135°	1056.4	1114.9	1056.4	997.9	983.3	888.3	761.7	698.3	659.2	581.1	522.5
137.5°	998.1	1046.0	998.1	950.1	938.2	857.9	750.8	697.3	663.3	595.1	544.1
140°	958.1	1002.9	958.1	913.4	902.2	832.8	740.3	694.1	664.0	603.8	558.7
142.5°	925.0	963.5	925.0	886.4	876.8	815.9	734.7	694.1	666.4	611.0	569.4
145°	875.4	904.5	875.4	846.2	838.9	789.0	722.6	689.4	666.4	620.3	585.8
147.5°	837.2	861.4	837.2	813.1	807.0	767.8	715.5	689.4	670.9	634.1	606.5
150°	813.3	832.8	813.3	793.6	788.8	755.6	711.5	689.4	673.3	641.3	617.2
152.5°	792.6	807.5	792.6	777.9	774.2	745.9	708.2	689.4	674.9	646.0	624.3
155°	769.1	778.9	769.1	759.3	756.9	734.4	704.4	689.4	678.3	656.2	639.7
157.5°	750.5	757.3	750.5	743.6	741.9	724.4	701.0	689.4	681.8	666.6	655.2
160°	739.3	743.3	739.3	735.4	734.4	719.3	699.3	689.4	683.3	671.3	662.2
162.5°	732.1	735.8	732.1	728.3	727.4	714.7	697.8	689.4	685.0	676.2	669.7
165°	721.5	725.5	721.5	717.5	716.5	707.5	695.4	689.4	687.4	683.5	680.5
167.5°	714.0	715.6	714.0	712.4	711.9	705.9	698.1	694.1	692.4	689.1	686.6
170°	711.9	711.9	711.9	711.9	711.9	705.9	698.1	694.1	694.0	693.8	693.6
172.5°	706.3	704.8	706.3	707.7	708.1	703.4	697.2	694.1	694.1	694.1	694.1
175°	702.9	702.9	702.9	702.9	702.9	700.0	696.1	694.1	695.0	696.9	698.3
177.5°	700.0	698.3	700.0	701.6	702.0	699.7	696.5	695.0	695.7	697.2	698.3
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935759

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1642.1	1632.9	1632.9	1617.6	1611.5	1606.8	1599.2	1576.2	1570.1	1564.0	1573.2
5°	1655.9	1639.1	1626.8	1599.2	1576.2	1567.0	1538.0	1482.8	1446.1	1418.5	1403.2
7.5°	1659.0	1637.5	1614.5	1571.6	1516.5	1492.0	1403.2	1302.1	1274.5	1249.9	1234.6
10°	1655.9	1631.4	1599.2	1534.9	1404.7	1361.8	1272.9	1207.0	1190.2	1185.7	1190.2
12.5°	1645.2	1622.2	1577.8	1470.5	1288.2	1259.2	1207.0	1168.7	1165.8	1173.4	1214.7
15°	1626.8	1605.4	1553.3	1384.8	1224.0	1202.5	1165.8	1151.9	1168.7	1222.4	1346.5
17.5°	1608.4	1583.9	1519.6	1300.5	1174.9	1159.6	1133.5	1161.1	1256.1	1328.1	1369.4
20°	1583.9	1554.8	1481.3	1239.3	1139.7	1125.9	1113.6	1237.7	1309.7	1335.7	1358.7
22.5°	1554.8	1524.2	1429.2	1196.4	1102.9	1092.2	1099.9	1280.6	1309.7	1328.1	1348.0
25°	1516.5	1490.4	1367.9	1162.7	1073.8	1061.6	1090.6	1276.0	1292.8	1297.5	1337.3
27.5°	1481.3	1447.5	1303.6	1132.0	1038.6	1034.0	1098.3	1256.1	1268.3	1272.9	1315.8
30°	1438.4	1387.8	1231.6	1099.9	1001.8	1000.3	1099.9	1231.6	1228.5	1240.8	1283.7
32.5°	1393.9	1299.0	1150.4	1060.0	966.6	965.1	1089.1	1194.8	1191.7	1208.6	1240.8
35°	1352.6	1230.0	1040.1	1014.1	922.2	923.7	1063.1	1151.9	1153.4	1168.7	1188.7
37.5°	1309.7	1170.3	919.1	963.5	879.3	879.3	1027.8	1112.1	1109.0	1113.6	1141.2
40°	1259.2	1076.9	811.8	897.6	839.4	834.8	985.0	1069.2	1058.5	1057.0	1095.2
42.5°	1205.6	974.2	732.2	810.3	793.5	787.4	932.9	1017.1	997.2	1001.8	1050.8
45°	1147.3	946.7	670.9	684.8	746.0	741.4	876.2	957.4	943.6	955.9	1006.4
47.5°	1089.1	891.5	651.0	568.4	695.4	693.9	813.4	899.2	891.5	903.8	957.4
50°	1009.4	830.2	649.5	487.2	638.8	644.9	738.3	842.5	842.5	853.2	909.9
52.5°	906.9	755.2	589.7	441.2	572.9	591.3	672.4	793.5	796.5	807.3	857.8
55°	813.4	677.1	546.9	406.0	494.8	534.6	608.2	743.0	749.0	759.8	805.8
57.5°	727.7	563.7	537.7	364.6	422.8	461.1	551.4	693.9	697.0	706.2	750.6
60°	635.7	407.5	493.2	320.2	360.0	389.0	499.4	635.7	646.5	652.5	690.8
62.5°	531.5	295.6	447.3	289.5	329.3	335.5	456.5	580.6	594.3	598.9	621.9
65°	378.4	248.2	379.9	263.5	297.2	298.7	410.5	523.9	536.1	543.8	560.7
67.5°	255.8	202.2	289.5	239.0	272.6	274.2	366.1	458.0	474.8	481.0	491.7
70°	177.7	134.8	214.4	212.9	245.1	248.2	318.6	398.3	413.6	418.2	424.3
72.5°	130.2	108.8	177.7	191.4	216.0	219.0	269.6	330.8	346.2	350.7	353.8
75°	99.6	114.9	144.0	167.0	183.8	185.4	220.6	269.6	280.3	283.4	284.9
77.5°	79.7	107.3	105.7	134.8	150.1	147.1	173.1	208.4	217.5	217.5	217.5
80°	59.7	84.3	79.7	96.5	110.2	107.3	124.1	148.6	151.6	154.7	153.2
82.5°	44.4	53.6	53.6	61.3	73.5	70.4	82.7	96.5	96.5	96.5	99.6
85°	27.6	30.6	24.5	32.1	41.4	39.8	46.0	52.0	53.6	53.6	50.5
87.5°	16.8	13.8	7.7	12.2	18.4	18.4	21.5	23.0	21.5	21.5	21.5
90°	12.2	8.4	4.7	8.4	12.2	13.1	20.6	30.6	35.6	31.6	23.7
92.5°	82.5	50.6	18.7	50.6	82.5	90.4	127.2	176.1	200.6	175.8	126.3
95°	161.7	103.3	45.0	103.3	161.7	176.2	312.9	495.1	586.3	523.2	397.0
97.5°	180.7	129.2	77.8	129.2	180.7	193.5	421.4	725.3	877.3	837.4	757.6
100°	196.4	149.8	103.1	149.8	196.4	208.1	461.0	798.2	966.8	969.7	975.6
102.5°	211.7	168.2	124.6	168.2	211.7	222.6	479.1	821.2	992.1	1043.0	1144.7
105°	235.0	198.1	161.2	198.1	235.0	244.2	492.6	823.8	989.3	1103.3	1331.1
107.5°	267.5	233.1	198.7	233.1	267.5	276.1	495.1	787.1	933.1	1092.1	1409.9
110°	286.0	255.1	224.0	255.1	286.0	293.8	491.3	754.6	886.2	1063.9	1419.3



TEST NUMBER: P935759

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	307.9	278.4	248.8	278.4	307.9	315.4	491.4	726.2	843.6	1025.5	1389.2
115°	341.0	313.6	286.3	313.6	341.0	347.8	496.0	693.6	792.5	967.6	1318.0
117.5°	373.0	348.2	323.4	348.2	373.0	379.2	505.3	673.3	757.3	915.4	1231.6
120°	391.7	368.3	345.0	368.3	391.7	397.5	512.8	666.5	743.3	887.8	1176.6
122.5°	413.1	389.6	366.0	389.6	413.1	419.0	523.5	662.8	732.5	862.6	1122.8
125°	441.3	419.8	398.4	419.8	441.3	446.6	538.0	659.9	720.8	831.3	1052.2
127.5°	467.9	446.2	424.6	446.2	467.9	473.3	552.5	658.1	710.9	805.8	995.6
130°	485.3	462.0	438.6	462.0	485.3	491.1	563.2	659.2	707.2	791.7	960.6
132.5°	499.9	476.6	453.2	476.6	499.9	505.7	571.8	659.9	703.9	779.5	930.8
135°	517.2	496.0	474.8	496.0	517.2	522.5	581.1	659.2	698.3	761.7	888.3
137.5°	538.8	517.8	496.8	517.8	538.8	544.1	595.1	663.3	697.3	750.8	857.9
140°	553.8	534.4	515.0	534.4	553.8	558.7	603.8	664.0	694.1	740.3	832.8
142.5°	564.9	547.0	529.1	547.0	564.9	569.4	611.0	666.4	694.1	734.7	815.9
145°	581.9	566.3	550.7	566.3	581.9	585.8	620.3	666.4	689.4	722.6	789.0
147.5°	602.7	587.4	572.2	587.4	602.7	606.5	634.1	670.9	689.4	715.5	767.8
150°	613.8	600.0	586.3	600.0	613.8	617.2	641.3	673.3	689.4	711.5	755.6
152.5°	621.7	611.3	600.8	611.3	621.7	624.3	646.0	674.9	689.4	708.2	745.9
155°	637.8	630.1	622.4	630.1	637.8	639.7	656.2	678.3	689.4	704.4	734.4
157.5°	653.3	645.8	638.3	645.8	653.3	655.2	666.6	681.8	689.4	701.0	724.4
160°	660.8	654.9	649.1	654.9	660.8	662.2	671.3	683.3	689.4	699.3	719.3
162.5°	668.6	664.2	659.9	664.2	668.6	669.7	676.2	685.0	689.4	697.8	714.7
165°	679.5	675.5	671.5	675.5	679.5	680.5	683.5	687.4	689.4	695.4	707.5
167.5°	686.1	684.2	682.4	684.2	686.1	686.6	689.1	692.4	694.1	698.1	705.9
170°	693.2	691.3	689.4	691.3	693.2	693.6	693.8	694.0	694.1	698.1	705.9
172.5°	694.0	693.5	693.2	693.5	694.0	694.1	694.1	694.1	694.1	697.2	703.4
175°	698.3	698.3	698.3	698.3	698.3	698.3	696.9	695.0	694.1	696.1	700.0
177.5°	698.3	698.3	698.3	698.3	698.3	698.3	697.2	695.7	695.0	696.5	699.7
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935759

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1562.5	1557.9	1564.0	1547.1	1564.0	1557.9	1562.5	1573.2	1564.0	1570.1	1576.2
5°	1371.0	1363.4	1338.8	1318.9	1338.8	1363.4	1371.0	1403.2	1418.5	1446.1	1482.8
7.5°	1225.5	1219.3	1213.2	1201.0	1213.2	1219.3	1225.5	1234.6	1249.9	1274.5	1302.1
10°	1193.3	1194.8	1204.0	1202.5	1204.0	1194.8	1193.3	1190.2	1185.7	1190.2	1207.0
12.5°	1276.0	1289.8	1340.4	1337.3	1340.4	1289.8	1276.0	1214.7	1173.4	1165.8	1168.7
15°	1371.0	1375.6	1386.3	1387.8	1386.3	1375.6	1371.0	1346.5	1222.4	1168.7	1151.9
17.5°	1380.2	1381.7	1389.3	1389.3	1389.3	1381.7	1380.2	1369.4	1328.1	1256.1	1161.1
20°	1372.5	1375.6	1390.9	1393.9	1390.9	1375.6	1372.5	1358.7	1335.7	1309.7	1237.7
22.5°	1369.4	1375.6	1387.8	1386.3	1387.8	1375.6	1369.4	1348.0	1328.1	1309.7	1280.6
25°	1354.1	1354.1	1355.7	1357.2	1355.7	1354.1	1354.1	1337.3	1297.5	1292.8	1276.0
27.5°	1322.0	1325.1	1334.2	1332.7	1334.2	1325.1	1322.0	1315.8	1272.9	1268.3	1256.1
30°	1292.8	1289.8	1282.2	1276.0	1282.2	1289.8	1292.8	1283.7	1240.8	1228.5	1231.6
32.5°	1243.9	1236.2	1228.5	1224.0	1228.5	1236.2	1243.9	1240.8	1208.6	1191.7	1194.8
35°	1185.7	1187.1	1185.7	1181.1	1185.7	1187.1	1185.7	1188.7	1168.7	1153.4	1151.9
37.5°	1144.3	1147.3	1145.8	1139.7	1145.8	1147.3	1144.3	1141.2	1113.6	1109.0	1112.1
40°	1101.4	1102.9	1101.4	1096.8	1101.4	1102.9	1101.4	1095.2	1057.0	1058.5	1069.2
42.5°	1060.0	1058.5	1053.9	1050.8	1053.9	1058.5	1060.0	1050.8	1001.8	997.2	1017.1
45°	1012.5	1014.1	1004.9	1000.3	1004.9	1014.1	1012.5	1006.4	955.9	943.6	957.4
47.5°	965.1	965.1	957.4	952.8	957.4	965.1	965.1	957.4	903.8	891.5	899.2
50°	914.5	912.9	902.3	900.7	902.3	912.9	914.5	909.9	853.2	842.5	842.5
52.5°	856.3	856.3	857.8	860.9	857.8	856.3	856.3	857.8	807.3	796.5	793.5
55°	805.8	807.3	818.0	821.1	818.0	807.3	805.8	805.8	759.8	749.0	743.0
57.5°	753.6	753.6	761.3	761.3	761.3	753.6	753.6	750.6	706.2	697.0	693.9
60°	693.9	697.0	703.1	701.6	703.1	697.0	693.9	690.8	652.5	646.5	635.7
62.5°	631.1	634.2	635.7	632.6	635.7	634.2	631.1	621.9	598.9	594.3	580.6
65°	565.3	568.4	569.8	566.8	569.8	568.4	565.3	560.7	543.8	536.1	523.9
67.5°	497.8	496.3	494.8	500.9	494.8	496.3	497.8	491.7	481.0	474.8	458.0
70°	428.9	428.9	427.4	430.4	427.4	428.9	428.9	424.3	418.2	413.6	398.3
72.5°	355.4	353.8	360.0	355.4	360.0	353.8	355.4	353.8	350.7	346.2	330.8
75°	283.4	286.5	283.4	288.0	283.4	286.5	283.4	284.9	283.4	280.3	269.6
77.5°	216.0	219.0	216.0	216.0	216.0	219.0	216.0	217.5	217.5	217.5	208.4
80°	153.2	151.6	151.6	150.1	151.6	151.6	153.2	153.2	154.7	151.6	148.6
82.5°	98.0	96.5	96.5	99.6	96.5	96.5	98.0	99.6	96.5	96.5	96.5
85°	53.6	55.1	52.0	52.0	52.0	55.1	53.6	50.5	53.6	53.6	52.0
87.5°	19.9	18.4	18.4	18.4	18.4	18.4	19.9	21.5	21.5	21.5	23.0
90°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23.7	31.6	35.6	30.6
92.5°	89.1	85.5	71.3	57.2	71.3	85.5	89.1	126.3	175.8	200.6	176.1
95°	302.3	291.6	248.6	205.7	248.6	291.6	302.3	397.0	523.2	586.3	495.1
97.5°	697.8	677.4	595.8	514.1	595.8	677.4	697.8	757.6	837.4	877.3	725.3
100°	979.9	955.6	858.4	761.1	858.4	955.6	979.9	975.6	969.7	966.8	798.2
102.5°	1220.9	1200.1	1116.7	1033.4	1116.7	1200.1	1220.9	1144.7	1043.0	992.1	821.2
105°	1502.0	1490.8	1446.1	1401.3	1446.1	1490.8	1502.0	1331.1	1103.3	989.3	823.8
107.5°	1648.2	1650.9	1661.8	1672.6	1661.8	1650.9	1648.2	1409.9	1092.1	933.1	787.1
110°	1685.8	1697.4	1744.1	1790.7	1744.1	1697.4	1685.8	1419.3	1063.9	886.2	754.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1661.9	1679.8	1751.4	1823.1	1751.4	1679.8	1661.9	1389.2	1025.5	843.6	726.2
115°	1580.8	1605.6	1705.0	1804.3	1705.0	1605.6	1580.8	1318.0	967.6	792.5	693.6
117.5°	1468.7	1496.2	1606.5	1716.6	1606.5	1496.2	1468.7	1231.6	915.4	757.3	673.3
120°	1393.3	1420.1	1527.1	1634.2	1527.1	1420.1	1393.3	1176.6	887.8	743.3	666.5
122.5°	1317.8	1344.3	1449.8	1555.4	1449.8	1344.3	1317.8	1122.8	862.6	732.5	662.8
125°	1218.0	1242.3	1339.5	1436.9	1339.5	1242.3	1218.0	1052.2	831.3	720.8	659.9
127.5°	1137.9	1158.4	1240.4	1322.5	1240.4	1158.4	1137.9	995.6	805.8	710.9	658.1
130°	1087.3	1106.2	1182.0	1257.9	1182.0	1106.2	1087.3	960.6	791.7	707.2	659.2
132.5°	1044.2	1061.1	1129.0	1196.9	1129.0	1061.1	1044.2	930.8	779.5	703.9	659.9
135°	983.3	997.9	1056.4	1114.9	1056.4	997.9	983.3	888.3	761.7	698.3	659.2
137.5°	938.2	950.1	998.1	1046.0	998.1	950.1	938.2	857.9	750.8	697.3	663.3
140°	902.2	913.4	958.1	1002.9	958.1	913.4	902.2	832.8	740.3	694.1	664.0
142.5°	876.8	886.4	925.0	963.5	925.0	886.4	876.8	815.9	734.7	694.1	666.4
145°	838.9	846.2	875.4	904.5	875.4	846.2	838.9	789.0	722.6	689.4	666.4
147.5°	807.0	813.1	837.2	861.4	837.2	813.1	807.0	767.8	715.5	689.4	670.9
150°	788.8	793.6	813.3	832.8	813.3	793.6	788.8	755.6	711.5	689.4	673.3
152.5°	774.2	777.9	792.6	807.5	792.6	777.9	774.2	745.9	708.2	689.4	674.9
155°	756.9	759.3	769.1	778.9	769.1	759.3	756.9	734.4	704.4	689.4	678.3
157.5°	741.9	743.6	750.5	757.3	750.5	743.6	741.9	724.4	701.0	689.4	681.8
160°	734.4	735.4	739.3	743.3	739.3	735.4	734.4	719.3	699.3	689.4	683.3
162.5°	727.4	728.3	732.1	735.8	732.1	728.3	727.4	714.7	697.8	689.4	685.0
165°	716.5	717.5	721.5	725.5	721.5	717.5	716.5	707.5	695.4	689.4	687.4
167.5°	711.9	712.4	714.0	715.6	714.0	712.4	711.9	705.9	698.1	694.1	692.4
170°	711.9	711.9	711.9	711.9	711.9	711.9	711.9	705.9	698.1	694.1	694.0
172.5°	708.1	707.7	706.3	704.8	706.3	707.7	708.1	703.4	697.2	694.1	694.1
175°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	700.0	696.1	694.1	695.0
177.5°	702.0	701.6	700.0	698.3	700.0	701.6	702.0	699.7	696.5	695.0	695.7
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1619.2	1619.2	1619.2	1619.2	1619.2
2.5°	1599.2	1606.8	1611.5	1617.6	1632.9
5°	1538.0	1567.0	1576.2	1599.2	1626.8
7.5°	1403.2	1492.0	1516.5	1571.6	1614.5
10°	1272.9	1361.8	1404.7	1534.9	1599.2
12.5°	1207.0	1259.2	1288.2	1470.5	1577.8
15°	1165.8	1202.5	1224.0	1384.8	1553.3
17.5°	1133.5	1159.6	1174.9	1300.5	1519.6
20°	1113.6	1125.9	1139.7	1239.3	1481.3
22.5°	1099.9	1092.2	1102.9	1196.4	1429.2
25°	1090.6	1061.6	1073.8	1162.7	1367.9
27.5°	1098.3	1034.0	1038.6	1132.0	1303.6
30°	1099.9	1000.3	1001.8	1099.9	1231.6
32.5°	1089.1	965.1	966.6	1060.0	1150.4
35°	1063.1	923.7	922.2	1014.1	1040.1
37.5°	1027.8	879.3	879.3	963.5	919.1
40°	985.0	834.8	839.4	897.6	811.8
42.5°	932.9	787.4	793.5	810.3	732.2
45°	876.2	741.4	746.0	684.8	670.9
47.5°	813.4	693.9	695.4	568.4	651.0
50°	738.3	644.9	638.8	487.2	649.5
52.5°	672.4	591.3	572.9	441.2	589.7
55°	608.2	534.6	494.8	406.0	546.9
57.5°	551.4	461.1	422.8	364.6	537.7
60°	499.4	389.0	360.0	320.2	493.2
62.5°	456.5	335.5	329.3	289.5	447.3
65°	410.5	298.7	297.2	263.5	379.9
67.5°	366.1	274.2	272.6	239.0	289.5
70°	318.6	248.2	245.1	212.9	214.4
72.5°	269.6	219.0	216.0	191.4	177.7
75°	220.6	185.4	183.8	167.0	144.0
77.5°	173.1	147.1	150.1	134.8	105.7
80°	124.1	107.3	110.2	96.5	79.7
82.5°	82.7	70.4	73.5	61.3	53.6
85°	46.0	39.8	41.4	32.1	24.5
87.5°	21.5	18.4	18.4	12.2	7.7
90°	20.6	13.1	12.2	8.4	4.7
92.5°	127.2	90.4	82.5	50.6	18.7
95°	312.9	176.2	161.7	103.3	45.0
97.5°	421.4	193.5	180.7	129.2	77.8
100°	461.0	208.1	196.4	149.8	103.1
102.5°	479.1	222.6	211.7	168.2	124.6
105°	492.6	244.2	235.0	198.1	161.2
107.5°	495.1	276.1	267.5	233.1	198.7
110°	491.3	293.8	286.0	255.1	224.0



TEST NUMBER: P935759

CATALOG NUMBER: SQ4-FA-125U-125D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	491.4	315.4	307.9	278.4	248.8
115°	496.0	347.8	341.0	313.6	286.3
117.5°	505.3	379.2	373.0	348.2	323.4
120°	512.8	397.5	391.7	368.3	345.0
122.5°	523.5	419.0	413.1	389.6	366.0
125°	538.0	446.6	441.3	419.8	398.4
127.5°	552.5	473.3	467.9	446.2	424.6
130°	563.2	491.1	485.3	462.0	438.6
132.5°	571.8	505.7	499.9	476.6	453.2
135°	581.1	522.5	517.2	496.0	474.8
137.5°	595.1	544.1	538.8	517.8	496.8
140°	603.8	558.7	553.8	534.4	515.0
142.5°	611.0	569.4	564.9	547.0	529.1
145°	620.3	585.8	581.9	566.3	550.7
147.5°	634.1	606.5	602.7	587.4	572.2
150°	641.3	617.2	613.8	600.0	586.3
152.5°	646.0	624.3	621.7	611.3	600.8
155°	656.2	639.7	637.8	630.1	622.4
157.5°	666.6	655.2	653.3	645.8	638.3
160°	671.3	662.2	660.8	654.9	649.1
162.5°	676.2	669.7	668.6	664.2	659.9
165°	683.5	680.5	679.5	675.5	671.5
167.5°	689.1	686.6	686.1	684.2	682.4
170°	693.8	693.6	693.2	691.3	689.4
172.5°	694.1	694.1	694.0	693.5	693.2
175°	696.9	698.3	698.3	698.3	698.3
177.5°	697.2	698.3	698.3	698.3	698.3
180°	698.3	698.3	698.3	698.3	698.3



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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	14.03	14.88	15.01	15.86	17.16	16.83	17.67	17.80	18.66	19.96
	3H	14.51	15.27	15.49	16.26	17.58	18.16	18.92	19.15	19.92	21.24
	4H	14.70	15.42	15.70	16.42	17.74	18.60	19.32	19.60	20.32	21.64
	6H	14.82	15.48	15.83	16.48	17.82	18.88	19.54	19.89	20.54	21.88
	8H	14.82	15.45	15.83	16.47	17.80	18.95	19.58	19.96	20.60	21.93
	12H	14.79	15.39	15.81	16.40	17.76	18.98	19.58	20.00	20.59	21.95
4H	2H	15.06	15.77	16.06	16.77	18.10	17.24	17.96	18.24	18.95	20.28
	3H	16.08	16.68	17.09	17.71	19.05	18.73	19.33	19.75	20.36	21.70
	4H	16.36	16.90	17.38	17.92	19.29	19.25	19.80	20.28	20.82	22.19
	6H	16.48	16.95	17.51	17.99	19.36	19.61	20.08	20.64	21.12	22.49
	8H	16.49	16.92	17.52	17.96	19.34	19.71	20.15	20.74	21.19	22.56
	12H	16.45	16.85	17.50	17.90	19.28	19.76	20.16	20.81	21.21	22.59
8H	4H	16.80	17.24	17.84	18.28	19.66	19.38	19.82	20.41	20.85	22.23
	6H	17.06	17.43	18.12	18.51	19.88	19.81	20.17	20.86	21.25	22.62
	8H	17.11	17.43	18.17	18.49	19.88	19.95	20.27	21.02	21.34	22.73
	12H	17.09	17.37	18.16	18.43	19.86	20.04	20.33	21.11	21.38	22.82
12H	4H	16.81	17.20	17.86	18.26	19.64	19.34	19.74	20.39	20.79	22.17
	6H	17.12	17.44	18.19	18.51	19.90	19.80	20.12	20.87	21.19	22.58
	8H	17.19	17.47	18.26	18.53	19.96	19.96	20.24	21.03	21.30	22.73