

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: P935785

Luminaire Tested: SQ4-FA-125U-125D-B2750-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935785
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-B2750-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

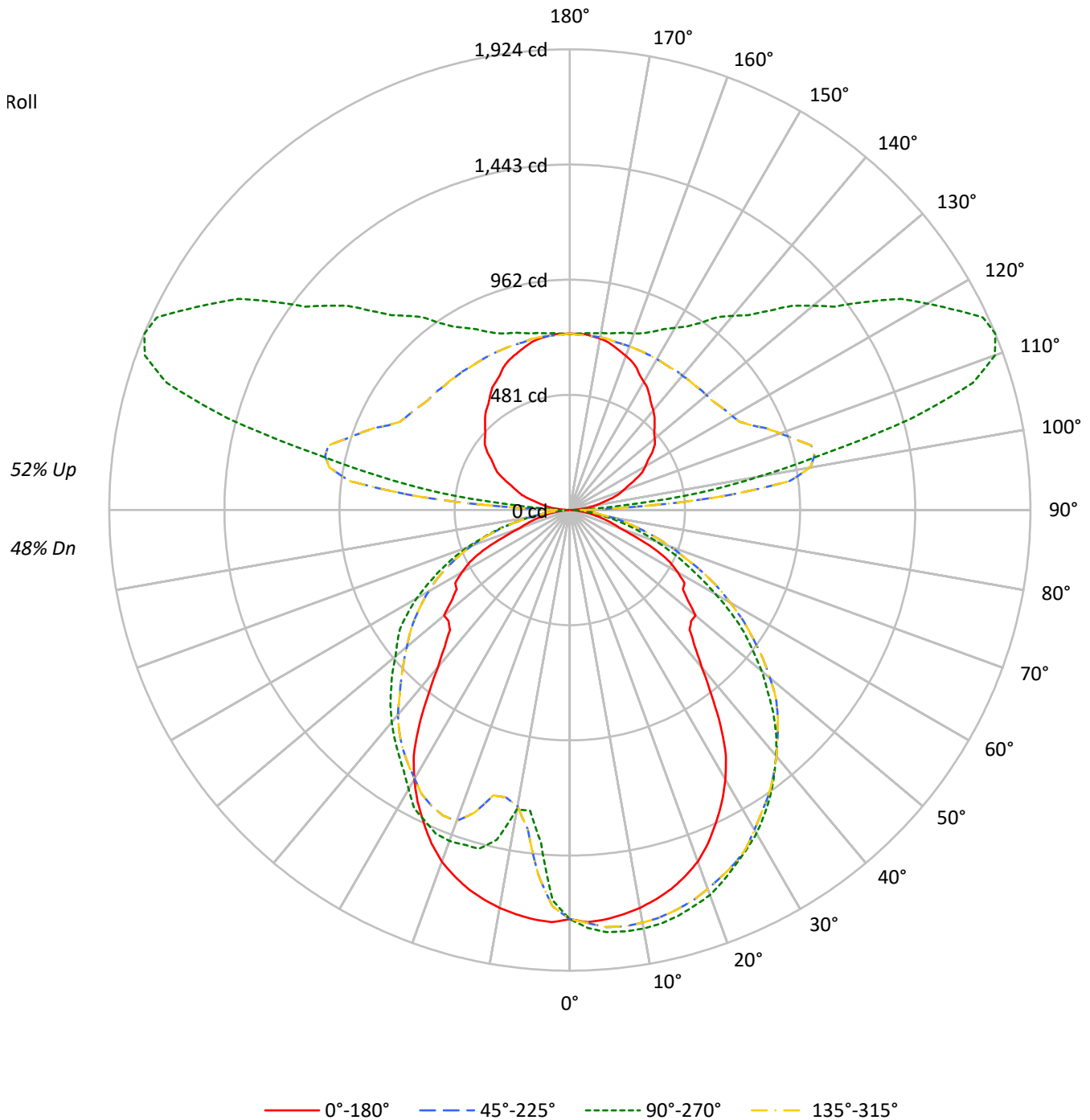
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9208.1 lumens
Efficiency: N/A
Efficacy: 122.4 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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Luminous Intensity Polar Plot





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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°	15852	15852	15852	15852
5°	15952	16001	15952	12582
10°	15829	15763	15829	11269
15°	15638	15421	15638	12876
20°	15294	15017	15294	12903
25°	14606	14426	14606	12630
30°	13725	13936	13725	12030
35°	12217	13317	12217	11370
40°	10162	12587	10162	10872
45°	9062	11733	9062	10299
50°	9605	10715	9605	9723
55°	9013	9618	9013	9390
60°	9257	8169	9257	8600
65°	8352	6753	8352	7548
70°	5743	5382	5743	6326
75°	4981	3977	4981	4764
80°	3931	2629	3931	2862
85°	2145	1394	2145	1183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.7
10°-20°	437.8	4.8
20°-30°	676.8	7.3
30°-40°	807.9	8.8
40°-50°	812.7	8.8
50°-60°	707.1	7.7
60°-70°	501.4	5.4
70°-80°	265.3	2.9
80°-90°	68.9	0.7
90°-100°	359.1	3.9
100°-110°	944.2	10.3
110°-120°	979.0	10.6
120°-130°	785.3	8.5
130°-140°	616.2	6.7
140°-150°	472.9	5.1
150°-160°	340.6	3.7
160°-170°	208.4	2.3
170°-180°	70.4	0.8
0°-30°	1268.8	13.8
0°-40°	2076.8	22.6
0°-60°	3596.6	39.1
0°-90°	4432.1	48.1
90°-120°	2282.3	24.8
90°-150°	4156.6	45.1
90°-180°	4776.0	51.9
0°-180°	9208.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1708	1708	1708	1708	1708	
5°	1716	1770	1716	1392	1716	163
15°	1639	1754	1639	1464	1639	461
25°	1443	1636	1443	1432	1443	663
35°	1097	1459	1097	1246	1097	679
45°	708	1202	708	1055	708	567
55°	577	887	577	866	577	530
65°	401	535	401	598	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1478	170	1478	170	180
115°	302	1904	302	1904	302	298
125°	420	1516	420	1516	420	373
135°	501	1176	501	1176	501	388
145°	581	954	581	954	581	364
155°	657	822	657	822	657	302
165°	708	765	708	765	708	200
175°	737	742	737	742	737	70
180°	737	737	737	737	737	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1722.8	1722.8	1732.6	1735.8	1735.8	1730.9	1726.1	1730.9	1745.5	1750.3	1748.7
5°	1716.3	1729.3	1747.1	1750.3	1753.6	1751.9	1748.7	1751.9	1768.1	1771.3	1773.0
7.5°	1703.4	1727.7	1750.3	1755.2	1760.0	1755.2	1753.6	1756.8	1773.0	1776.2	1776.2
10°	1687.3	1721.2	1747.1	1750.3	1755.2	1750.3	1750.3	1756.8	1773.0	1776.2	1777.8
12.5°	1664.7	1711.6	1735.8	1739.0	1745.5	1743.8	1742.2	1748.7	1764.8	1768.1	1768.1
15°	1638.8	1693.8	1716.3	1719.6	1730.9	1727.7	1727.7	1734.2	1751.9	1756.8	1755.2
17.5°	1603.3	1671.2	1696.9	1701.8	1709.9	1708.3	1709.9	1716.3	1732.6	1735.8	1737.3
20°	1562.9	1640.4	1671.2	1675.9	1684.0	1684.0	1684.0	1692.2	1708.3	1714.8	1714.8
22.5°	1507.8	1608.1	1640.4	1643.7	1653.3	1653.3	1656.5	1667.9	1682.4	1684.0	1684.0
25°	1443.2	1572.5	1600.0	1609.7	1619.4	1624.3	1629.1	1635.5	1640.4	1638.8	1640.4
27.5°	1375.4	1527.2	1562.9	1569.3	1582.2	1587.1	1593.5	1595.1	1596.8	1601.6	1598.4
30°	1299.4	1464.2	1517.6	1524.1	1545.1	1548.2	1541.8	1545.1	1553.1	1556.4	1559.6
32.5°	1213.7	1370.5	1470.7	1485.2	1504.7	1495.0	1493.3	1498.2	1511.1	1511.1	1514.3
35°	1097.4	1297.7	1427.1	1440.0	1454.6	1443.2	1449.7	1451.3	1459.4	1464.2	1462.7
37.5°	969.7	1234.7	1381.8	1391.5	1402.8	1388.3	1398.0	1402.8	1409.3	1406.0	1406.0
40°	856.5	1136.2	1328.5	1335.0	1344.6	1333.4	1343.0	1346.3	1349.5	1346.3	1344.6
42.5°	772.5	1027.9	1272.0	1280.0	1273.5	1281.6	1284.9	1291.4	1286.5	1280.0	1280.0
45°	707.8	998.8	1210.5	1220.2	1210.5	1223.5	1228.3	1228.3	1213.7	1210.5	1208.9
47.5°	686.8	940.6	1149.1	1149.1	1144.3	1160.4	1168.4	1157.2	1142.7	1137.8	1137.8
50°	685.2	875.9	1065.0	1058.6	1081.3	1100.6	1092.5	1081.3	1069.9	1052.1	1052.1
52.5°	622.2	796.8	956.8	981.0	1016.6	1027.9	1015.0	1003.6	984.2	976.2	969.7
55°	577.0	714.3	858.2	906.7	943.8	958.3	934.2	922.8	893.8	888.9	885.7
57.5°	567.3	594.8	767.7	829.1	874.3	872.8	858.2	837.2	812.9	808.1	806.5
60°	520.4	429.9	670.7	743.5	790.3	785.5	772.5	753.1	730.5	727.2	724.1
62.5°	472.0	311.9	560.8	643.2	709.5	707.8	696.6	667.4	651.3	643.2	636.8
65°	400.8	261.9	399.2	535.0	630.3	633.5	609.3	588.3	570.5	560.8	559.2
67.5°	305.4	213.3	269.9	446.1	554.4	551.1	520.4	510.7	488.1	483.2	473.6
70°	226.2	142.2	187.5	362.0	480.0	472.0	447.7	436.3	415.3	404.1	397.6
72.5°	187.5	114.8	137.3	281.2	404.1	394.3	373.3	360.4	342.7	332.9	326.4
75°	151.9	121.2	105.0	208.5	328.0	321.6	302.3	289.3	274.8	261.9	263.4
77.5°	111.5	113.2	84.0	153.6	260.2	250.5	239.2	223.0	216.6	203.6	203.6
80°	84.0	88.9	63.0	105.0	187.5	187.5	177.8	166.5	155.2	148.7	148.7
82.5°	56.5	56.5	46.9	66.3	127.7	122.8	116.3	113.2	106.7	103.4	103.4
85°	25.9	32.3	29.1	40.4	69.5	72.8	72.8	69.5	67.9	64.7	66.3
87.5°	8.1	14.5	17.8	22.6	35.5	37.1	38.8	38.8	38.8	40.4	40.4
90°	5.0	8.9	12.9	13.8	21.8	32.3	37.5	33.3	25.0	18.8	18.8
92.5°	19.8	53.4	87.0	95.4	134.2	185.8	211.6	185.5	133.2	94.0	90.2
95°	47.5	109.0	170.6	185.9	330.1	522.4	618.6	552.0	418.9	319.0	307.6
97.5°	82.0	136.3	190.6	204.2	444.6	765.2	925.6	883.5	799.3	736.2	714.7
100°	108.8	158.1	207.2	219.6	486.4	842.1	1020.0	1023.1	1029.3	1033.9	1008.2
102.5°	131.5	177.4	223.4	234.8	505.5	866.4	1046.8	1100.4	1207.7	1288.1	1266.1
105°	170.1	209.0	247.9	257.7	519.7	869.1	1043.8	1164.0	1404.4	1584.7	1572.9
107.5°	209.6	245.9	282.2	291.3	522.4	830.5	984.5	1152.2	1487.5	1739.0	1741.8
110°	236.4	269.1	301.8	310.0	518.4	796.2	935.0	1122.5	1497.4	1778.6	1790.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.5	293.8	324.9	332.7	518.5	766.2	890.1	1081.9	1465.6	1753.4	1772.3
115°	302.1	330.9	359.7	366.9	523.3	731.8	836.1	1020.9	1390.6	1667.8	1694.0
117.5°	341.2	367.4	393.6	400.0	533.1	710.4	799.0	965.8	1299.4	1549.6	1578.6
120°	364.0	388.6	413.2	419.3	541.0	703.2	784.2	936.7	1241.4	1470.0	1498.3
122.5°	386.2	411.0	435.9	442.1	552.4	699.3	772.9	910.1	1184.6	1390.4	1418.3
125°	420.3	442.9	465.6	471.2	567.7	696.2	760.5	877.1	1110.2	1285.0	1310.7
127.5°	448.0	470.8	493.6	499.4	582.9	694.4	750.1	850.1	1050.4	1200.5	1222.2
130°	462.8	487.4	512.1	518.2	594.2	695.5	746.1	835.2	1013.4	1147.1	1167.1
132.5°	478.2	502.8	527.4	533.6	603.3	696.2	742.7	822.4	982.0	1101.7	1119.5
135°	500.9	523.3	545.7	551.3	613.1	695.5	736.8	803.6	937.2	1037.4	1052.9
137.5°	524.1	546.3	568.5	574.1	627.9	699.8	735.7	792.2	905.1	989.9	1002.5
140°	543.4	563.8	584.3	589.4	637.1	700.6	732.3	781.1	878.7	951.8	963.7
142.5°	558.2	577.1	596.0	600.8	644.6	703.1	732.3	775.2	860.8	925.1	935.2
145°	581.0	597.4	614.0	618.1	654.5	703.1	727.3	762.4	832.5	885.1	892.8
147.5°	603.8	619.8	635.8	639.8	669.0	707.8	727.3	754.9	810.1	851.5	857.9
150°	618.6	633.1	647.6	651.2	676.6	710.4	727.3	750.6	797.2	832.2	837.3
152.5°	633.9	644.9	655.9	658.7	681.6	712.0	727.3	747.2	787.0	816.8	820.7
155°	656.7	664.8	672.9	674.9	692.4	715.7	727.3	743.2	774.8	798.6	801.1
157.5°	673.5	681.4	689.2	691.2	703.3	719.3	727.3	739.6	764.3	782.7	784.5
160°	684.8	690.9	697.2	698.7	708.2	720.9	727.3	737.8	758.9	774.8	775.8
162.5°	696.2	700.8	705.5	706.6	713.5	722.7	727.3	736.2	754.1	767.4	768.4
165°	708.5	712.7	716.9	718.0	721.1	725.2	727.3	733.7	746.4	756.0	757.0
167.5°	720.0	721.9	723.9	724.4	727.0	730.6	732.3	736.5	744.8	751.1	751.6
170°	727.3	729.3	731.3	731.8	732.0	732.2	732.3	736.5	744.8	751.1	751.1
172.5°	731.3	731.7	732.2	732.3	732.3	732.3	732.3	735.5	742.1	747.1	746.7
175°	736.8	736.8	736.8	736.8	735.3	733.2	732.3	734.4	738.5	741.7	741.7
177.5°	736.8	736.8	736.8	736.8	735.6	734.0	733.2	734.9	738.2	740.7	740.2
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1751.9	1747.1	1751.9	1748.7	1750.3	1745.5	1730.9	1726.1	1730.9	1735.8	1735.8
5°	1773.0	1769.7	1773.0	1773.0	1771.3	1768.1	1751.9	1748.7	1751.9	1753.6	1750.3
7.5°	1779.4	1774.6	1779.4	1776.2	1776.2	1773.0	1756.8	1753.6	1755.2	1760.0	1755.2
10°	1779.4	1774.6	1779.4	1777.8	1776.2	1773.0	1756.8	1750.3	1750.3	1755.2	1750.3
12.5°	1771.3	1768.1	1771.3	1768.1	1768.1	1764.8	1748.7	1742.2	1743.8	1745.5	1739.0
15°	1758.3	1753.6	1758.3	1755.2	1756.8	1751.9	1734.2	1727.7	1727.7	1730.9	1719.6
17.5°	1739.0	1732.6	1739.0	1737.3	1735.8	1732.6	1716.3	1709.9	1708.3	1709.9	1701.8
20°	1716.3	1711.6	1716.3	1714.8	1714.8	1708.3	1692.2	1684.0	1684.0	1684.0	1675.9
22.5°	1680.8	1675.9	1680.8	1684.0	1684.0	1682.4	1667.9	1656.5	1653.3	1653.3	1643.7
25°	1640.4	1635.5	1640.4	1640.4	1638.8	1640.4	1635.5	1629.1	1624.3	1619.4	1609.7
27.5°	1601.6	1598.4	1601.6	1598.4	1601.6	1596.8	1595.1	1593.5	1587.1	1582.2	1569.3
30°	1562.9	1559.6	1562.9	1559.6	1556.4	1553.1	1545.1	1541.8	1548.2	1545.1	1524.1
32.5°	1514.3	1511.1	1514.3	1514.3	1511.1	1511.1	1498.2	1493.3	1495.0	1504.7	1485.2
35°	1464.2	1459.4	1464.2	1462.7	1464.2	1459.4	1451.3	1449.7	1443.2	1454.6	1440.0
37.5°	1406.0	1401.2	1406.0	1406.0	1406.0	1409.3	1402.8	1398.0	1388.3	1402.8	1391.5
40°	1346.3	1339.8	1346.3	1344.6	1346.3	1349.5	1346.3	1343.0	1333.4	1344.6	1335.0
42.5°	1278.4	1276.7	1278.4	1280.0	1280.0	1286.5	1291.4	1284.9	1281.6	1273.5	1280.0
45°	1205.7	1202.4	1205.7	1208.9	1210.5	1213.7	1228.3	1228.3	1223.5	1210.5	1220.2
47.5°	1128.0	1120.0	1128.0	1137.8	1137.8	1142.7	1157.2	1168.4	1160.4	1144.3	1149.1
50°	1045.6	1047.3	1045.6	1052.1	1052.1	1069.9	1081.3	1092.5	1100.6	1081.3	1058.6
52.5°	964.8	963.2	964.8	969.7	976.2	984.2	1003.6	1015.0	1027.9	1016.6	981.0
55°	884.0	887.3	884.0	885.7	888.9	893.8	922.8	934.2	958.3	943.8	906.7
57.5°	803.3	798.4	803.3	806.5	808.1	812.9	837.2	858.2	872.8	874.3	829.1
60°	709.5	703.1	709.5	724.1	727.2	730.5	753.1	772.5	785.5	790.3	743.5
62.5°	627.1	615.8	627.1	636.8	643.2	651.3	667.4	696.6	707.8	709.5	643.2
65°	539.8	535.0	539.8	559.2	560.8	570.5	588.3	609.3	633.5	630.3	535.0
67.5°	460.6	460.6	460.6	473.6	483.2	488.1	510.7	520.4	551.1	554.4	446.1
70°	387.9	386.3	387.9	397.6	404.1	415.3	436.3	447.7	472.0	480.0	362.0
72.5°	318.4	316.8	318.4	326.4	332.9	342.7	360.4	373.3	394.3	404.1	281.2
75°	257.0	253.7	257.0	263.4	261.9	274.8	289.3	302.3	321.6	328.0	208.5
77.5°	197.2	197.2	197.2	203.6	203.6	216.6	223.0	239.2	250.5	260.2	153.6
80°	147.1	145.4	147.1	148.7	148.7	155.2	166.5	177.8	187.5	187.5	105.0
82.5°	103.4	100.2	103.4	103.4	103.4	106.7	113.2	116.3	122.8	127.7	66.3
85°	64.7	64.7	64.7	66.3	64.7	67.9	69.5	72.8	72.8	69.5	40.4
87.5°	42.0	40.4	42.0	40.4	40.4	38.8	38.8	38.8	37.1	35.5	22.6
90°	18.8	18.8	18.8	18.8	18.8	25.0	33.3	37.5	32.3	21.8	13.8
92.5°	75.3	60.4	75.3	90.2	94.0	133.2	185.5	211.6	185.8	134.2	95.4
95°	262.3	217.1	262.3	307.6	319.0	418.9	552.0	618.6	522.4	330.1	185.9
97.5°	628.6	542.4	628.6	714.7	736.2	799.3	883.5	925.6	765.2	444.6	204.2
100°	905.6	803.0	905.6	1008.2	1033.9	1029.3	1023.1	1020.0	842.1	486.4	219.6
102.5°	1178.2	1090.3	1178.2	1266.1	1288.1	1207.7	1100.4	1046.8	866.4	505.5	234.8
105°	1525.7	1478.4	1525.7	1572.9	1584.7	1404.4	1164.0	1043.8	869.1	519.7	257.7
107.5°	1753.3	1764.7	1753.3	1741.8	1739.0	1487.5	1152.2	984.5	830.5	522.4	291.3
110°	1840.1	1889.3	1840.1	1790.9	1778.6	1497.4	1122.5	935.0	796.2	518.4	310.0



TEST NUMBER: P935785

CATALOG NUMBER: SQ4-FA-125U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1847.8	1923.5	1847.8	1772.3	1753.4	1465.6	1081.9	890.1	766.2	518.5	332.7
115°	1798.8	1903.7	1798.8	1694.0	1667.8	1390.6	1020.9	836.1	731.8	523.3	366.9
117.5°	1694.9	1811.2	1694.9	1578.6	1549.6	1299.4	965.8	799.0	710.4	533.1	400.0
120°	1611.2	1724.2	1611.2	1498.3	1470.0	1241.4	936.7	784.2	703.2	541.0	419.3
122.5°	1529.6	1641.1	1529.6	1418.3	1390.4	1184.6	910.1	772.9	699.3	552.4	442.1
125°	1413.3	1516.0	1413.3	1310.7	1285.0	1110.2	877.1	760.5	696.2	567.7	471.2
127.5°	1308.7	1395.4	1308.7	1222.2	1200.5	1050.4	850.1	750.1	694.4	582.9	499.4
130°	1247.1	1327.2	1247.1	1167.1	1147.1	1013.4	835.2	746.1	695.5	594.2	518.2
132.5°	1191.2	1262.8	1191.2	1119.5	1101.7	982.0	822.4	742.7	696.2	603.3	533.6
135°	1114.6	1176.3	1114.6	1052.9	1037.4	937.2	803.6	736.8	695.5	613.1	551.3
137.5°	1053.1	1103.6	1053.1	1002.5	989.9	905.1	792.2	735.7	699.8	627.9	574.1
140°	1010.9	1058.1	1010.9	963.7	951.8	878.7	781.1	732.3	700.6	637.1	589.4
142.5°	975.9	1016.6	975.9	935.2	925.1	860.8	775.2	732.3	703.1	644.6	600.8
145°	923.6	954.3	923.6	892.8	885.1	832.5	762.4	727.3	703.1	654.5	618.1
147.5°	883.3	908.8	883.3	857.9	851.5	810.1	754.9	727.3	707.8	669.0	639.8
150°	858.1	878.7	858.1	837.3	832.2	797.2	750.6	727.3	710.4	676.6	651.2
152.5°	836.3	852.0	836.3	820.7	816.8	787.0	747.2	727.3	712.0	681.6	658.7
155°	811.5	821.8	811.5	801.1	798.6	774.8	743.2	727.3	715.7	692.4	674.9
157.5°	791.8	799.0	791.8	784.5	782.7	764.3	739.6	727.3	719.3	703.3	691.2
160°	780.0	784.2	780.0	775.8	774.8	758.9	737.8	727.3	720.9	708.2	698.7
162.5°	772.4	776.3	772.4	768.4	767.4	754.1	736.2	727.3	722.7	713.5	706.6
165°	761.2	765.4	761.2	757.0	756.0	746.4	733.7	727.3	725.2	721.1	718.0
167.5°	753.3	755.0	753.3	751.6	751.1	744.8	736.5	732.3	730.6	727.0	724.4
170°	751.1	751.1	751.1	751.1	751.1	744.8	736.5	732.3	732.2	732.0	731.8
172.5°	745.2	743.7	745.2	746.7	747.1	742.1	735.5	732.3	732.3	732.3	732.3
175°	741.7	741.7	741.7	741.7	741.7	738.5	734.4	732.3	733.2	735.3	736.8
177.5°	738.5	736.8	738.5	740.2	740.7	738.2	734.9	733.2	734.0	735.6	736.8
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



TEST NUMBER: P935785

CATALOG NUMBER: SQ4-FA-125U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1732.6	1722.8	1722.8	1706.7	1700.2	1695.3	1687.3	1663.0	1656.5	1650.1	1659.8
5°	1747.1	1729.3	1716.3	1687.3	1663.0	1653.3	1622.6	1564.5	1525.7	1496.6	1480.4
7.5°	1750.3	1727.7	1703.4	1658.2	1600.0	1574.1	1480.4	1373.8	1344.6	1318.8	1302.6
10°	1747.1	1721.2	1687.3	1619.4	1482.1	1436.8	1343.0	1273.5	1255.7	1251.0	1255.7
12.5°	1735.8	1711.6	1664.7	1551.5	1359.2	1328.5	1273.5	1233.1	1229.9	1238.0	1281.6
15°	1716.3	1693.8	1638.8	1461.1	1291.4	1268.7	1229.9	1215.3	1233.1	1289.7	1420.7
17.5°	1696.9	1671.2	1603.3	1372.1	1239.6	1223.5	1195.9	1225.1	1325.3	1401.2	1444.8
20°	1671.2	1640.4	1562.9	1307.5	1202.4	1187.9	1174.9	1305.9	1381.8	1409.3	1433.6
22.5°	1640.4	1608.1	1507.8	1262.2	1163.7	1152.3	1160.4	1351.1	1381.8	1401.2	1422.2
25°	1600.0	1572.5	1443.2	1226.7	1132.9	1120.0	1150.7	1346.3	1364.0	1368.9	1410.9
27.5°	1562.9	1527.2	1375.4	1194.3	1095.8	1090.9	1158.8	1325.3	1338.1	1343.0	1388.3
30°	1517.6	1464.2	1299.4	1160.4	1057.0	1055.4	1160.4	1299.4	1296.1	1309.1	1354.4
32.5°	1470.7	1370.5	1213.7	1118.4	1019.8	1018.2	1149.1	1260.6	1257.4	1275.1	1309.1
35°	1427.1	1297.7	1097.4	1069.9	973.0	974.6	1121.6	1215.3	1217.0	1233.1	1254.1
37.5°	1381.8	1234.7	969.7	1016.6	927.7	927.7	1084.4	1173.3	1170.1	1174.9	1204.1
40°	1328.5	1136.2	856.5	947.1	885.7	880.8	1039.2	1128.0	1116.8	1115.2	1155.6
42.5°	1272.0	1027.9	772.5	854.9	837.2	830.8	984.2	1073.1	1052.1	1057.0	1108.7
45°	1210.5	998.8	707.8	722.5	787.1	782.2	924.4	1010.1	995.6	1008.5	1061.9
47.5°	1149.1	940.6	686.8	599.6	733.7	732.1	858.2	948.7	940.6	953.6	1010.1
50°	1065.0	875.9	685.2	514.0	673.9	680.4	779.0	888.9	888.9	900.2	960.0
52.5°	956.8	796.8	622.2	465.5	604.4	623.8	709.5	837.2	840.4	851.8	905.1
55°	858.2	714.3	577.0	428.3	522.0	564.0	641.7	783.9	790.3	801.6	850.1
57.5°	767.7	594.8	567.3	384.7	446.1	486.5	581.8	732.1	735.4	745.1	791.9
60°	670.7	429.9	520.4	337.8	379.8	410.5	526.9	670.7	682.1	688.5	728.9
62.5°	560.8	311.9	472.0	305.4	347.4	353.9	481.6	612.5	627.1	631.9	656.2
65°	399.2	261.9	400.8	278.0	313.5	315.2	433.1	552.8	565.6	573.8	591.5
67.5°	269.9	213.3	305.4	252.1	287.6	289.3	386.3	483.2	501.0	507.5	518.8
70°	187.5	142.2	226.2	224.6	258.6	261.9	336.2	420.2	436.3	441.2	447.7
72.5°	137.3	114.8	187.5	202.0	227.9	231.1	284.4	349.1	365.3	370.1	373.3
75°	105.0	121.2	151.9	176.2	194.0	195.6	232.7	284.4	295.8	299.0	300.6
77.5°	84.0	113.2	111.5	142.2	158.3	155.2	182.6	219.8	229.5	229.5	229.5
80°	63.0	88.9	84.0	101.8	116.3	113.2	130.9	156.8	160.0	163.2	161.6
82.5°	46.9	56.5	56.5	64.7	77.5	74.3	87.3	101.8	101.8	101.8	105.0
85°	29.1	32.3	25.9	33.9	43.6	42.0	48.5	54.9	56.5	56.5	53.3
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.6	24.3	22.6	22.6	22.6
90°	12.9	8.9	5.0	8.9	12.9	13.8	21.8	32.3	37.5	33.3	25.0
92.5°	87.0	53.4	19.8	53.4	87.0	95.4	134.2	185.8	211.6	185.5	133.2
95°	170.6	109.0	47.5	109.0	170.6	185.9	330.1	522.4	618.6	552.0	418.9
97.5°	190.6	136.3	82.0	136.3	190.6	204.2	444.6	765.2	925.6	883.5	799.3
100°	207.2	158.1	108.8	158.1	207.2	219.6	486.4	842.1	1020.0	1023.1	1029.3
102.5°	223.4	177.4	131.5	177.4	223.4	234.8	505.5	866.4	1046.8	1100.4	1207.7
105°	247.9	209.0	170.1	209.0	247.9	257.7	519.7	869.1	1043.8	1164.0	1404.4
107.5°	282.2	245.9	209.6	245.9	282.2	291.3	522.4	830.5	984.5	1152.2	1487.5
110°	301.8	269.1	236.4	269.1	301.8	310.0	518.4	796.2	935.0	1122.5	1497.4



TEST NUMBER: P935785

CATALOG NUMBER: SQ4-FA-125U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	324.9	293.8	262.5	293.8	324.9	332.7	518.5	766.2	890.1	1081.9	1465.6
115°	359.7	330.9	302.1	330.9	359.7	366.9	523.3	731.8	836.1	1020.9	1390.6
117.5°	393.6	367.4	341.2	367.4	393.6	400.0	533.1	710.4	799.0	965.8	1299.4
120°	413.2	388.6	364.0	388.6	413.2	419.3	541.0	703.2	784.2	936.7	1241.4
122.5°	435.9	411.0	386.2	411.0	435.9	442.1	552.4	699.3	772.9	910.1	1184.6
125°	465.6	442.9	420.3	442.9	465.6	471.2	567.7	696.2	760.5	877.1	1110.2
127.5°	493.6	470.8	448.0	470.8	493.6	499.4	582.9	694.4	750.1	850.1	1050.4
130°	512.1	487.4	462.8	487.4	512.1	518.2	594.2	695.5	746.1	835.2	1013.4
132.5°	527.4	502.8	478.2	502.8	527.4	533.6	603.3	696.2	742.7	822.4	982.0
135°	545.7	523.3	500.9	523.3	545.7	551.3	613.1	695.5	736.8	803.6	937.2
137.5°	568.5	546.3	524.1	546.3	568.5	574.1	627.9	699.8	735.7	792.2	905.1
140°	584.3	563.8	543.4	563.8	584.3	589.4	637.1	700.6	732.3	781.1	878.7
142.5°	596.0	577.1	558.2	577.1	596.0	600.8	644.6	703.1	732.3	775.2	860.8
145°	614.0	597.4	581.0	597.4	614.0	618.1	654.5	703.1	727.3	762.4	832.5
147.5°	635.8	619.8	603.8	619.8	635.8	639.8	669.0	707.8	727.3	754.9	810.1
150°	647.6	633.1	618.6	633.1	647.6	651.2	676.6	710.4	727.3	750.6	797.2
152.5°	655.9	644.9	633.9	644.9	655.9	658.7	681.6	712.0	727.3	747.2	787.0
155°	672.9	664.8	656.7	664.8	672.9	674.9	692.4	715.7	727.3	743.2	774.8
157.5°	689.2	681.4	673.5	681.4	689.2	691.2	703.3	719.3	727.3	739.6	764.3
160°	697.2	690.9	684.8	690.9	697.2	698.7	708.2	720.9	727.3	737.8	758.9
162.5°	705.5	700.8	696.2	700.8	705.5	706.6	713.5	722.7	727.3	736.2	754.1
165°	716.9	712.7	708.5	712.7	716.9	718.0	721.1	725.2	727.3	733.7	746.4
167.5°	723.9	721.9	720.0	721.9	723.9	724.4	727.0	730.6	732.3	736.5	744.8
170°	731.3	729.3	727.3	729.3	731.3	731.8	732.0	732.2	732.3	736.5	744.8
172.5°	732.2	731.7	731.3	731.7	732.2	732.3	732.3	732.3	732.3	735.5	742.1
175°	736.8	736.8	736.8	736.8	736.8	736.8	735.3	733.2	732.3	734.4	738.5
177.5°	736.8	736.8	736.8	736.8	736.8	736.8	735.6	734.0	733.2	734.9	738.2
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



TEST NUMBER: P935785

CATALOG NUMBER: SQ4-FA-125U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1648.5	1643.7	1650.1	1632.3	1650.1	1643.7	1648.5	1659.8	1650.1	1656.5	1663.0
5°	1446.4	1438.4	1412.5	1391.5	1412.5	1438.4	1446.4	1480.4	1496.6	1525.7	1564.5
7.5°	1293.0	1286.5	1280.0	1267.1	1280.0	1286.5	1293.0	1302.6	1318.8	1344.6	1373.8
10°	1259.0	1260.6	1270.3	1268.7	1270.3	1260.6	1259.0	1255.7	1251.0	1255.7	1273.5
12.5°	1346.3	1360.8	1414.2	1410.9	1414.2	1360.8	1346.3	1281.6	1238.0	1229.9	1233.1
15°	1446.4	1451.3	1462.7	1464.2	1462.7	1451.3	1446.4	1420.7	1289.7	1233.1	1215.3
17.5°	1456.2	1457.8	1465.8	1465.8	1465.8	1457.8	1456.2	1444.8	1401.2	1325.3	1225.1
20°	1448.1	1451.3	1467.5	1470.7	1467.5	1451.3	1448.1	1433.6	1409.3	1381.8	1305.9
22.5°	1444.8	1451.3	1464.2	1462.7	1464.2	1451.3	1444.8	1422.2	1401.2	1381.8	1351.1
25°	1428.7	1428.7	1430.3	1431.9	1430.3	1428.7	1428.7	1410.9	1368.9	1364.0	1346.3
27.5°	1394.8	1398.0	1407.7	1406.0	1407.7	1398.0	1394.8	1388.3	1343.0	1338.1	1325.3
30°	1364.0	1360.8	1352.8	1346.3	1352.8	1360.8	1364.0	1354.4	1309.1	1296.1	1299.4
32.5°	1312.4	1304.2	1296.1	1291.4	1296.1	1304.2	1312.4	1309.1	1275.1	1257.4	1260.6
35°	1251.0	1252.5	1251.0	1246.1	1251.0	1252.5	1251.0	1254.1	1233.1	1217.0	1215.3
37.5°	1207.3	1210.5	1208.9	1202.4	1208.9	1210.5	1207.3	1204.1	1174.9	1170.1	1173.3
40°	1162.0	1163.7	1162.0	1157.2	1162.0	1163.7	1162.0	1155.6	1115.2	1116.8	1128.0
42.5°	1118.4	1116.8	1111.9	1108.7	1111.9	1116.8	1118.4	1108.7	1057.0	1052.1	1073.1
45°	1068.3	1069.9	1060.2	1055.4	1060.2	1069.9	1068.3	1061.9	1008.5	995.6	1010.1
47.5°	1018.2	1018.2	1010.1	1005.2	1010.1	1018.2	1018.2	1010.1	953.6	940.6	948.7
50°	964.8	963.2	951.9	950.3	951.9	963.2	964.8	960.0	900.2	888.9	888.9
52.5°	903.4	903.4	905.1	908.3	905.1	903.4	903.4	905.1	851.8	840.4	837.2
55°	850.1	851.8	863.0	866.3	863.0	851.8	850.1	850.1	801.6	790.3	783.9
57.5°	795.1	795.1	803.3	803.3	803.3	795.1	795.1	791.9	745.1	735.4	732.1
60°	732.1	735.4	741.8	740.2	741.8	735.4	732.1	728.9	688.5	682.1	670.7
62.5°	665.8	669.1	670.7	667.4	670.7	669.1	665.8	656.2	631.9	627.1	612.5
65°	596.4	599.6	601.2	598.0	601.2	599.6	596.4	591.5	573.8	565.6	552.8
67.5°	525.2	523.6	522.0	528.5	522.0	523.6	525.2	518.8	507.5	501.0	483.2
70°	452.5	452.5	451.0	454.1	451.0	452.5	452.5	447.7	441.2	436.3	420.2
72.5°	374.9	373.3	379.8	374.9	379.8	373.3	374.9	373.3	370.1	365.3	349.1
75°	299.0	302.3	299.0	303.9	299.0	302.3	299.0	300.6	299.0	295.8	284.4
77.5°	227.9	231.1	227.9	227.9	227.9	231.1	227.9	229.5	229.5	229.5	219.8
80°	161.6	160.0	160.0	158.3	160.0	160.0	161.6	161.6	163.2	160.0	156.8
82.5°	103.4	101.8	101.8	105.0	101.8	101.8	103.4	105.0	101.8	101.8	101.8
85°	56.5	58.2	54.9	54.9	54.9	58.2	56.5	53.3	56.5	56.5	54.9
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.6	22.6	22.6	24.3
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.0	33.3	37.5	32.3
92.5°	94.0	90.2	75.3	60.4	75.3	90.2	94.0	133.2	185.5	211.6	185.8
95°	319.0	307.6	262.3	217.1	262.3	307.6	319.0	418.9	552.0	618.6	522.4
97.5°	736.2	714.7	628.6	542.4	628.6	714.7	736.2	799.3	883.5	925.6	765.2
100°	1033.9	1008.2	905.6	803.0	905.6	1008.2	1033.9	1029.3	1023.1	1020.0	842.1
102.5°	1288.1	1266.1	1178.2	1090.3	1178.2	1266.1	1288.1	1207.7	1100.4	1046.8	866.4
105°	1584.7	1572.9	1525.7	1478.4	1525.7	1572.9	1584.7	1404.4	1164.0	1043.8	869.1
107.5°	1739.0	1741.8	1753.3	1764.7	1753.3	1741.8	1739.0	1487.5	1152.2	984.5	830.5
110°	1778.6	1790.9	1840.1	1889.3	1840.1	1790.9	1778.6	1497.4	1122.5	935.0	796.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1753.4	1772.3	1847.8	1923.5	1847.8	1772.3	1753.4	1465.6	1081.9	890.1	766.2
115°	1667.8	1694.0	1798.8	1903.7	1798.8	1694.0	1667.8	1390.6	1020.9	836.1	731.8
117.5°	1549.6	1578.6	1694.9	1811.2	1694.9	1578.6	1549.6	1299.4	965.8	799.0	710.4
120°	1470.0	1498.3	1611.2	1724.2	1611.2	1498.3	1470.0	1241.4	936.7	784.2	703.2
122.5°	1390.4	1418.3	1529.6	1641.1	1529.6	1418.3	1390.4	1184.6	910.1	772.9	699.3
125°	1285.0	1310.7	1413.3	1516.0	1413.3	1310.7	1285.0	1110.2	877.1	760.5	696.2
127.5°	1200.5	1222.2	1308.7	1395.4	1308.7	1222.2	1200.5	1050.4	850.1	750.1	694.4
130°	1147.1	1167.1	1247.1	1327.2	1247.1	1167.1	1147.1	1013.4	835.2	746.1	695.5
132.5°	1101.7	1119.5	1191.2	1262.8	1191.2	1119.5	1101.7	982.0	822.4	742.7	696.2
135°	1037.4	1052.9	1114.6	1176.3	1114.6	1052.9	1037.4	937.2	803.6	736.8	695.5
137.5°	989.9	1002.5	1053.1	1103.6	1053.1	1002.5	989.9	905.1	792.2	735.7	699.8
140°	951.8	963.7	1010.9	1058.1	1010.9	963.7	951.8	878.7	781.1	732.3	700.6
142.5°	925.1	935.2	975.9	1016.6	975.9	935.2	925.1	860.8	775.2	732.3	703.1
145°	885.1	892.8	923.6	954.3	923.6	892.8	885.1	832.5	762.4	727.3	703.1
147.5°	851.5	857.9	883.3	908.8	883.3	857.9	851.5	810.1	754.9	727.3	707.8
150°	832.2	837.3	858.1	878.7	858.1	837.3	832.2	797.2	750.6	727.3	710.4
152.5°	816.8	820.7	836.3	852.0	836.3	820.7	816.8	787.0	747.2	727.3	712.0
155°	798.6	801.1	811.5	821.8	811.5	801.1	798.6	774.8	743.2	727.3	715.7
157.5°	782.7	784.5	791.8	799.0	791.8	784.5	782.7	764.3	739.6	727.3	719.3
160°	774.8	775.8	780.0	784.2	780.0	775.8	774.8	758.9	737.8	727.3	720.9
162.5°	767.4	768.4	772.4	776.3	772.4	768.4	767.4	754.1	736.2	727.3	722.7
165°	756.0	757.0	761.2	765.4	761.2	757.0	756.0	746.4	733.7	727.3	725.2
167.5°	751.1	751.6	753.3	755.0	753.3	751.6	751.1	744.8	736.5	732.3	730.6
170°	751.1	751.1	751.1	751.1	751.1	751.1	751.1	744.8	736.5	732.3	732.2
172.5°	747.1	746.7	745.2	743.7	745.2	746.7	747.1	742.1	735.5	732.3	732.3
175°	741.7	741.7	741.7	741.7	741.7	741.7	741.7	738.5	734.4	732.3	733.2
177.5°	740.7	740.2	738.5	736.8	738.5	740.2	740.7	738.2	734.9	733.2	734.0
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1687.3	1695.3	1700.2	1706.7	1722.8
5°	1622.6	1653.3	1663.0	1687.3	1716.3
7.5°	1480.4	1574.1	1600.0	1658.2	1703.4
10°	1343.0	1436.8	1482.1	1619.4	1687.3
12.5°	1273.5	1328.5	1359.2	1551.5	1664.7
15°	1229.9	1268.7	1291.4	1461.1	1638.8
17.5°	1195.9	1223.5	1239.6	1372.1	1603.3
20°	1174.9	1187.9	1202.4	1307.5	1562.9
22.5°	1160.4	1152.3	1163.7	1262.2	1507.8
25°	1150.7	1120.0	1132.9	1226.7	1443.2
27.5°	1158.8	1090.9	1095.8	1194.3	1375.4
30°	1160.4	1055.4	1057.0	1160.4	1299.4
32.5°	1149.1	1018.2	1019.8	1118.4	1213.7
35°	1121.6	974.6	973.0	1069.9	1097.4
37.5°	1084.4	927.7	927.7	1016.6	969.7
40°	1039.2	880.8	885.7	947.1	856.5
42.5°	984.2	830.8	837.2	854.9	772.5
45°	924.4	782.2	787.1	722.5	707.8
47.5°	858.2	732.1	733.7	599.6	686.8
50°	779.0	680.4	673.9	514.0	685.2
52.5°	709.5	623.8	604.4	465.5	622.2
55°	641.7	564.0	522.0	428.3	577.0
57.5°	581.8	486.5	446.1	384.7	567.3
60°	526.9	410.5	379.8	337.8	520.4
62.5°	481.6	353.9	347.4	305.4	472.0
65°	433.1	315.2	313.5	278.0	400.8
67.5°	386.3	289.3	287.6	252.1	305.4
70°	336.2	261.9	258.6	224.6	226.2
72.5°	284.4	231.1	227.9	202.0	187.5
75°	232.7	195.6	194.0	176.2	151.9
77.5°	182.6	155.2	158.3	142.2	111.5
80°	130.9	113.2	116.3	101.8	84.0
82.5°	87.3	74.3	77.5	64.7	56.5
85°	48.5	42.0	43.6	33.9	25.9
87.5°	22.6	19.4	19.4	12.9	8.1
90°	21.8	13.8	12.9	8.9	5.0
92.5°	134.2	95.4	87.0	53.4	19.8
95°	330.1	185.9	170.6	109.0	47.5
97.5°	444.6	204.2	190.6	136.3	82.0
100°	486.4	219.6	207.2	158.1	108.8
102.5°	505.5	234.8	223.4	177.4	131.5
105°	519.7	257.7	247.9	209.0	170.1
107.5°	522.4	291.3	282.2	245.9	209.6
110°	518.4	310.0	301.8	269.1	236.4



TEST NUMBER: P935785

CATALOG NUMBER: SQ4-FA-125U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	518.5	332.7	324.9	293.8	262.5
115°	523.3	366.9	359.7	330.9	302.1
117.5°	533.1	400.0	393.6	367.4	341.2
120°	541.0	419.3	413.2	388.6	364.0
122.5°	552.4	442.1	435.9	411.0	386.2
125°	567.7	471.2	465.6	442.9	420.3
127.5°	582.9	499.4	493.6	470.8	448.0
130°	594.2	518.2	512.1	487.4	462.8
132.5°	603.3	533.6	527.4	502.8	478.2
135°	613.1	551.3	545.7	523.3	500.9
137.5°	627.9	574.1	568.5	546.3	524.1
140°	637.1	589.4	584.3	563.8	543.4
142.5°	644.6	600.8	596.0	577.1	558.2
145°	654.5	618.1	614.0	597.4	581.0
147.5°	669.0	639.8	635.8	619.8	603.8
150°	676.6	651.2	647.6	633.1	618.6
152.5°	681.6	658.7	655.9	644.9	633.9
155°	692.4	674.9	672.9	664.8	656.7
157.5°	703.3	691.2	689.2	681.4	673.5
160°	708.2	698.7	697.2	690.9	684.8
162.5°	713.5	706.6	705.5	700.8	696.2
165°	721.1	718.0	716.9	712.7	708.5
167.5°	727.0	724.4	723.9	721.9	720.0
170°	732.0	731.8	731.3	729.3	727.3
172.5°	732.3	732.3	732.2	731.7	731.3
175°	735.3	736.8	736.8	736.8	736.8
177.5°	735.6	736.8	736.8	736.8	736.8
180°	736.8	736.8	736.8	736.8	736.8



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.22	15.06	15.19	16.05	17.35	17.02	17.86	17.99	18.85	20.15
	3H	14.69	15.45	15.68	16.45	17.77	18.35	19.11	19.33	20.10	21.42
	4H	14.89	15.60	15.88	16.60	17.93	18.79	19.50	19.79	20.50	21.83
	6H	15.00	15.66	16.01	16.67	18.01	19.06	19.72	20.07	20.73	22.07
	8H	15.00	15.63	16.02	16.65	17.99	19.13	19.76	20.15	20.78	22.12
	12H	14.97	15.57	15.99	16.59	17.95	19.17	19.76	20.19	20.78	22.14
4H	2H	15.24	15.96	16.25	16.96	18.29	17.43	18.14	18.43	19.14	20.47
	3H	16.27	16.86	17.28	17.89	19.23	18.92	19.52	19.93	20.55	21.89
	4H	16.54	17.09	17.56	18.11	19.47	19.44	19.99	20.46	21.01	22.37
	6H	16.67	17.14	17.70	18.18	19.54	19.80	20.27	20.83	21.31	22.67
	8H	16.67	17.11	17.70	18.15	19.52	19.90	20.34	20.93	21.37	22.75
	12H	16.64	17.03	17.69	18.09	19.47	19.95	20.35	21.00	21.40	22.78
8H	4H	16.99	17.43	18.02	18.47	19.84	19.56	20.00	20.60	21.04	22.42
	6H	17.25	17.61	18.31	18.69	20.07	19.99	20.35	21.05	21.43	22.81
	8H	17.29	17.61	18.36	18.68	20.07	20.14	20.46	21.20	21.52	22.91
	12H	17.28	17.56	18.34	18.62	20.05	20.23	20.51	21.30	21.57	23.00
12H	4H	16.99	17.39	18.04	18.44	19.82	19.53	19.92	20.58	20.98	22.36
	6H	17.31	17.63	18.37	18.69	20.08	19.99	20.31	21.05	21.37	22.76
	8H	17.38	17.66	18.44	18.71	20.15	20.15	20.43	21.21	21.48	22.92