

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: P934586

Luminaire Tested: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934586
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

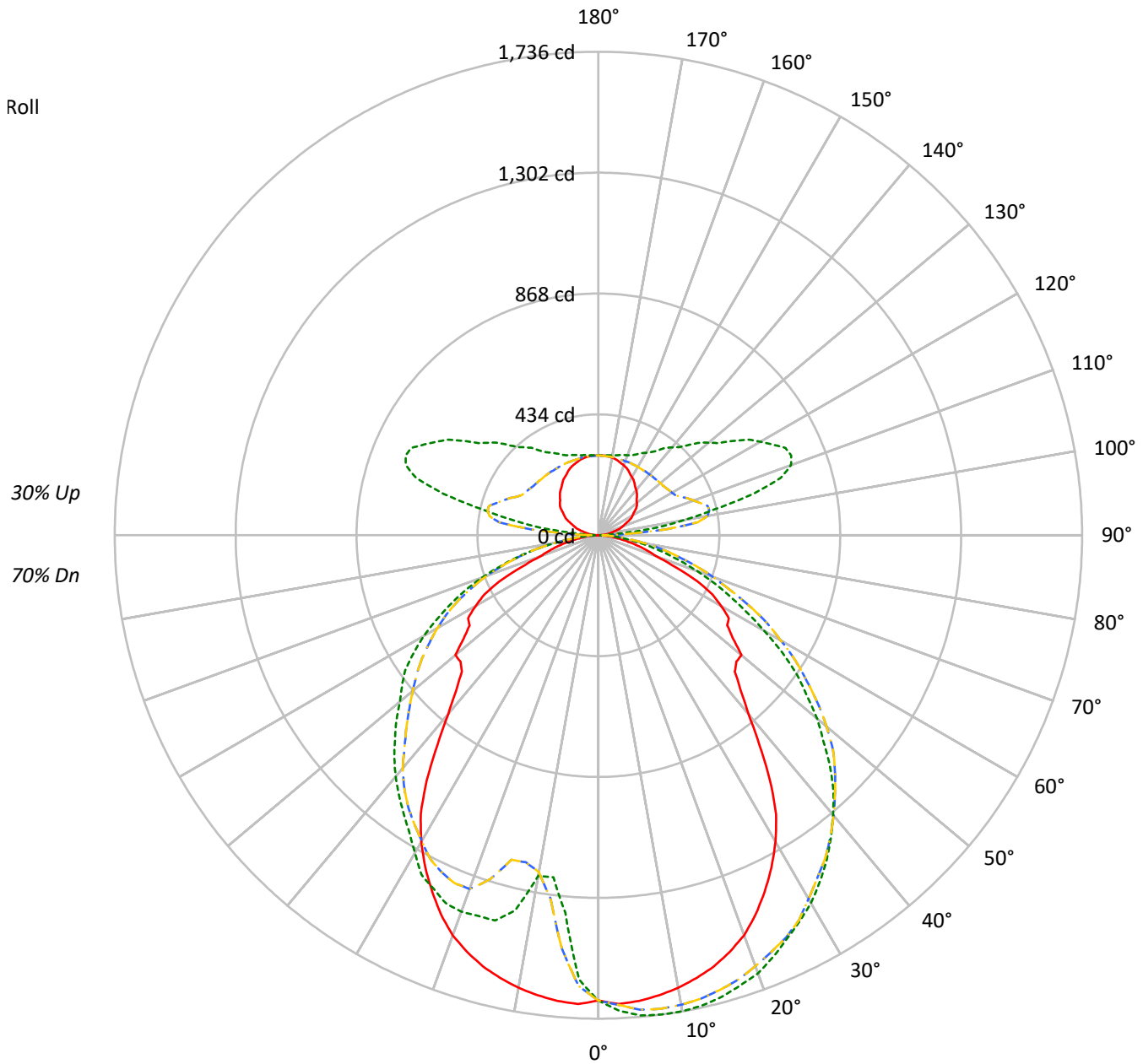
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6192.4 lumens
Efficiency: N/A
Efficacy: 110.6 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: Semi-Direct

Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15503	15503	15503	15503
5°	15602	15650	15602	12305
10°	15481	15416	15481	11021
15°	15294	15082	15294	12593
20°	14957	14686	14957	12620
25°	14285	14109	14285	12352
30°	13423	13630	13423	11766
35°	11949	13024	11949	11120
40°	9939	12310	9939	10632
45°	8863	11475	8863	10072
50°	9394	10479	9394	9509
55°	8814	9407	8814	9183
60°	9052	7989	9052	8411
65°	8169	6604	8169	7383
70°	5618	5263	5618	6187
75°	4873	3891	4873	4659
80°	3847	2571	3847	2801
85°	2095	1362	2095	1157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13610 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.4
10°-20°	428.2	6.9
20°-30°	661.9	10.7
30°-40°	790.2	12.8
40°-50°	794.8	12.8
50°-60°	691.6	11.2
60°-70°	490.3	7.9
70°-80°	259.4	4.2
80°-90°	65.7	1.1
90°-100°	139.8	2.3
100°-110°	367.6	5.9
110°-120°	381.1	6.2
120°-130°	305.7	4.9
130°-140°	239.9	3.9
140°-150°	184.1	3.0
150°-160°	132.6	2.1
160°-170°	81.1	1.3
170°-180°	27.4	0.4
0°-30°	1240.9	20.0
0°-40°	2031.1	32.8
0°-60°	3517.5	56.8
0°-90°	4333.0	70.0
90°-120°	888.5	14.3
90°-150°	1618.3	26.1
90°-180°	1859.0	30.0
0°-180°	6192.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1671	1671	1671	1671	1671	
5°	1679	1731	1679	1361	1679	159
15°	1603	1715	1603	1432	1603	451
25°	1412	1600	1412	1400	1412	648
35°	1073	1427	1073	1219	1073	664
45°	692	1176	692	1032	692	555
55°	564	868	564	847	564	519
65°	392	523	392	585	392	375
75°	149	248	149	297	149	156
85°	25	63	25	54	25	34
90°	2	7	2	7	2	3
95°	18	84	18	84	18	21
105°	66	576	66	576	66	70
115°	118	741	118	741	118	116
125°	164	590	164	590	164	145
135°	195	458	195	458	195	151
145°	226	372	226	372	226	142
155°	256	320	256	320	256	117
165°	276	298	276	298	276	78
175°	287	289	287	289	287	27
180°	287	287	287	287	287	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1684.9	1684.9	1694.5	1697.6	1697.6	1692.9	1688.1	1692.9	1707.1	1711.8	1710.2
5°	1678.6	1691.3	1708.7	1711.8	1715.0	1713.4	1710.2	1713.4	1729.2	1732.4	1734.0
7.5°	1666.0	1689.7	1711.8	1716.6	1721.3	1716.6	1715.0	1718.2	1734.0	1737.1	1737.1
10°	1650.2	1683.3	1708.7	1711.8	1716.6	1711.8	1711.8	1718.2	1734.0	1737.1	1738.7
12.5°	1628.1	1673.9	1697.6	1700.7	1707.1	1705.5	1703.9	1710.2	1726.0	1729.2	1729.2
15°	1602.7	1656.5	1678.6	1681.8	1692.9	1689.7	1689.7	1696.1	1713.4	1718.2	1716.6
17.5°	1568.0	1634.4	1659.6	1664.4	1672.3	1670.7	1672.3	1678.6	1694.5	1697.6	1699.1
20°	1528.5	1604.3	1634.4	1639.1	1647.0	1647.0	1647.0	1655.0	1670.7	1677.1	1677.1
22.5°	1474.7	1572.8	1604.3	1607.5	1616.9	1616.9	1620.1	1631.2	1645.4	1647.0	1647.0
25°	1411.5	1537.9	1564.8	1574.4	1583.8	1588.5	1593.3	1599.6	1604.3	1602.7	1604.3
27.5°	1345.1	1493.7	1528.5	1534.7	1547.5	1552.2	1558.5	1560.1	1561.6	1566.4	1563.2
30°	1270.8	1432.0	1484.2	1490.6	1511.1	1514.2	1507.9	1511.1	1519.0	1522.1	1525.3
32.5°	1187.0	1340.4	1438.4	1452.6	1471.6	1462.1	1460.5	1465.3	1477.9	1477.9	1481.0
35°	1073.3	1269.2	1395.7	1408.4	1422.6	1411.5	1417.8	1419.4	1427.3	1432.0	1430.5
37.5°	948.4	1207.6	1351.4	1360.9	1372.0	1357.8	1367.3	1372.0	1378.3	1375.1	1375.1
40°	837.7	1111.2	1299.3	1305.6	1315.1	1304.1	1313.5	1316.7	1319.8	1316.7	1315.1
42.5°	755.5	1005.3	1244.0	1251.8	1245.5	1253.4	1256.6	1263.0	1258.2	1251.8	1251.8
45°	692.3	976.9	1183.8	1193.4	1183.8	1196.5	1201.3	1201.3	1187.0	1183.8	1182.4
47.5°	671.7	919.9	1123.8	1123.8	1119.1	1134.9	1142.7	1131.7	1117.5	1112.8	1112.8
50°	670.1	856.7	1041.6	1035.3	1057.5	1076.4	1068.5	1057.5	1046.4	1029.0	1029.0
52.5°	608.5	779.2	935.8	959.4	994.2	1005.3	992.7	981.5	962.6	954.7	948.4
55°	564.3	698.6	839.3	886.7	923.1	937.3	913.6	902.5	874.1	869.4	866.2
57.5°	554.8	581.7	750.8	810.9	855.1	853.6	839.3	818.7	795.0	790.4	788.8
60°	508.9	420.5	655.9	727.1	772.9	768.2	755.5	736.6	714.4	711.2	708.2
62.5°	461.6	305.0	548.4	629.0	693.9	692.3	681.3	652.8	637.0	629.0	622.8
65°	392.0	256.1	390.4	523.2	616.4	619.6	595.9	575.3	558.0	548.4	546.9
67.5°	298.7	208.7	263.9	436.3	542.2	539.0	508.9	499.5	477.4	472.6	463.2
70°	221.3	139.1	183.3	354.1	469.4	461.6	437.9	426.7	406.2	395.2	388.8
72.5°	183.3	112.3	134.3	275.1	395.2	385.6	365.1	352.5	335.1	325.6	319.2
75°	148.6	118.5	102.7	203.9	320.8	314.6	295.6	282.9	268.7	256.1	257.6
77.5°	109.1	110.7	82.2	150.2	254.5	245.0	234.0	218.1	211.8	199.1	199.1
80°	82.2	87.0	61.6	102.7	183.3	183.3	173.9	162.8	151.8	145.4	145.4
82.5°	55.3	55.3	45.9	64.8	124.9	120.1	113.8	110.7	104.3	101.2	101.2
85°	25.3	31.6	28.5	39.5	68.0	71.2	71.2	68.0	66.4	63.2	64.8
87.5°	7.9	14.2	17.4	22.1	34.7	36.3	37.9	37.9	37.9	39.5	39.5
90°	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7	7.3	7.3
92.5°	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8	36.6	35.1
95°	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0	124.1	119.7
97.5°	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2	286.6	278.2
100°	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8	402.6	392.6
102.5°	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2	501.5	492.9
105°	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8	617.0	612.4
107.5°	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2	677.1	678.2
110°	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0	692.5	697.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6	682.7	690.0
115°	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3	649.3	659.5
117.5°	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9	603.3	614.6
120°	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3	572.4	583.4
122.5°	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2	541.3	552.2
125°	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3	500.3	510.3
127.5°	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9	467.4	475.8
130°	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6	446.6	454.4
132.5°	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3	428.9	435.9
135°	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8	403.9	409.8
137.5°	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4	385.4	390.3
140°	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1	370.6	375.2
142.5°	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1	360.2	364.1
145°	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1	344.6	347.5
147.5°	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4	331.5	334.0
150°	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4	324.0	326.1
152.5°	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4	318.0	319.5
155°	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7	310.9	312.0
157.5°	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6	304.8	305.5
160°	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5	301.7	302.1
162.5°	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6	298.8	299.2
165°	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6	294.3	294.7
167.5°	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0	292.4	292.6
170°	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0	292.4	292.4
172.5°	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9	290.8	290.7
175°	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6	288.8	288.8
177.5°	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5	288.4	288.2
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1713.4	1708.7	1713.4	1710.2	1711.8	1707.1	1692.9	1688.1	1692.9	1697.6	1697.6
5°	1734.0	1730.8	1734.0	1734.0	1732.4	1729.2	1713.4	1710.2	1713.4	1715.0	1711.8
7.5°	1740.2	1735.6	1740.2	1737.1	1737.1	1734.0	1718.2	1715.0	1716.6	1721.3	1716.6
10°	1740.2	1735.6	1740.2	1738.7	1737.1	1734.0	1718.2	1711.8	1711.8	1716.6	1711.8
12.5°	1732.4	1729.2	1732.4	1729.2	1729.2	1726.0	1710.2	1703.9	1705.5	1707.1	1700.7
15°	1719.7	1715.0	1719.7	1716.6	1718.2	1713.4	1696.1	1689.7	1689.7	1692.9	1681.8
17.5°	1700.7	1694.5	1700.7	1699.1	1697.6	1694.5	1678.6	1672.3	1670.7	1672.3	1664.4
20°	1678.6	1673.9	1678.6	1677.1	1677.1	1670.7	1655.0	1647.0	1647.0	1647.0	1639.1
22.5°	1643.8	1639.1	1643.8	1647.0	1647.0	1645.4	1631.2	1620.1	1616.9	1616.9	1607.5
25°	1604.3	1599.6	1604.3	1604.3	1602.7	1604.3	1599.6	1593.3	1588.5	1583.8	1574.4
27.5°	1566.4	1563.2	1566.4	1563.2	1566.4	1561.6	1560.1	1558.5	1552.2	1547.5	1534.7
30°	1528.5	1525.3	1528.5	1525.3	1522.1	1519.0	1511.1	1507.9	1514.2	1511.1	1490.6
32.5°	1481.0	1477.9	1481.0	1481.0	1477.9	1477.9	1465.3	1460.5	1462.1	1471.6	1452.6
35°	1432.0	1427.3	1432.0	1430.5	1432.0	1427.3	1419.4	1417.8	1411.5	1422.6	1408.4
37.5°	1375.1	1370.4	1375.1	1375.1	1375.1	1378.3	1372.0	1367.3	1357.8	1372.0	1360.9
40°	1316.7	1310.3	1316.7	1315.1	1316.7	1319.8	1316.7	1313.5	1304.1	1315.1	1305.6
42.5°	1250.3	1248.7	1250.3	1251.8	1251.8	1258.2	1263.0	1256.6	1253.4	1245.5	1251.8
45°	1179.2	1176.0	1179.2	1182.4	1183.8	1187.0	1201.3	1201.3	1196.5	1183.8	1193.4
47.5°	1103.2	1095.4	1103.2	1112.8	1112.8	1117.5	1131.7	1142.7	1134.9	1119.1	1123.8
50°	1022.6	1024.2	1022.6	1029.0	1029.0	1046.4	1057.5	1068.5	1076.4	1057.5	1035.3
52.5°	943.6	942.0	943.6	948.4	954.7	962.6	981.5	992.7	1005.3	994.2	959.4
55°	864.6	867.8	864.6	866.2	869.4	874.1	902.5	913.6	937.3	923.1	886.7
57.5°	785.6	780.8	785.6	788.8	790.4	795.0	818.7	839.3	853.6	855.1	810.9
60°	693.9	687.6	693.9	708.2	711.2	714.4	736.6	755.5	768.2	772.9	727.1
62.5°	613.3	602.2	613.3	622.8	629.0	637.0	652.8	681.3	692.3	693.9	629.0
65°	527.9	523.2	527.9	546.9	548.4	558.0	575.3	595.9	619.6	616.4	523.2
67.5°	450.5	450.5	450.5	463.2	472.6	477.4	499.5	508.9	539.0	542.2	436.3
70°	379.4	377.8	379.4	388.8	395.2	406.2	426.7	437.9	461.6	469.4	354.1
72.5°	311.4	309.8	311.4	319.2	325.6	335.1	352.5	365.1	385.6	395.2	275.1
75°	251.3	248.2	251.3	257.6	256.1	268.7	282.9	295.6	314.6	320.8	203.9
77.5°	192.9	192.9	192.9	199.1	199.1	211.8	218.1	234.0	245.0	254.5	150.2
80°	143.8	142.2	143.8	145.4	145.4	151.8	162.8	173.9	183.3	183.3	102.7
82.5°	101.2	98.0	101.2	101.2	101.2	104.3	110.7	113.8	120.1	124.9	64.8
85°	63.2	63.2	63.2	64.8	63.2	66.4	68.0	71.2	71.2	68.0	39.5
87.5°	41.1	39.5	41.1	39.5	39.5	37.9	37.9	37.9	36.3	34.7	22.1
90°	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6	8.5	5.4
92.5°	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3	52.2	37.2
95°	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3	128.5	72.4
97.5°	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9	173.1	79.5
100°	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8	189.3	85.5
102.5°	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3	196.8	91.4
105°	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4	202.3	100.3
107.5°	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4	203.3	113.4
110°	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0	201.8	120.7



TEST NUMBER: P934586

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3	201.8	129.5
115°	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9	203.7	142.8
117.5°	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6	207.5	155.7
120°	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8	210.6	163.3
122.5°	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3	215.0	172.1
125°	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0	221.0	183.4
127.5°	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4	227.0	194.5
130°	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8	231.4	201.7
132.5°	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0	234.9	207.7
135°	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8	238.7	214.6
137.5°	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4	244.5	223.5
140°	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7	248.0	229.5
142.5°	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7	251.0	233.9
145°	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8	254.8	240.6
147.5°	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6	260.5	249.1
150°	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6	263.4	253.5
152.5°	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2	265.3	256.4
155°	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6	269.6	262.7
157.5°	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0	273.8	269.1
160°	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7	275.7	272.0
162.5°	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4	277.8	275.1
165°	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3	280.8	279.5
167.5°	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4	283.0	282.0
170°	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1	285.0	284.9
172.5°	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4	286.3	286.8
177.5°	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8	286.4	286.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934586

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1694.5	1684.9	1684.9	1669.2	1662.8	1658.0	1650.2	1626.5	1620.1	1613.9	1623.3
5°	1708.7	1691.3	1678.6	1650.2	1626.5	1616.9	1587.0	1530.1	1492.2	1463.7	1447.9
7.5°	1711.8	1689.7	1666.0	1621.7	1564.8	1539.5	1447.9	1343.6	1315.1	1289.8	1274.0
10°	1708.7	1683.3	1650.2	1583.8	1449.5	1405.2	1313.5	1245.5	1228.1	1223.4	1228.1
12.5°	1697.6	1673.9	1628.1	1517.4	1329.3	1299.3	1245.5	1206.0	1202.9	1210.7	1253.4
15°	1678.6	1656.5	1602.7	1428.9	1263.0	1240.8	1202.9	1188.6	1206.0	1261.4	1389.4
17.5°	1659.6	1634.4	1568.0	1342.0	1212.3	1196.5	1169.6	1198.1	1296.1	1370.4	1413.0
20°	1634.4	1604.3	1528.5	1278.7	1176.0	1161.8	1149.1	1277.2	1351.4	1378.3	1402.0
22.5°	1604.3	1572.8	1474.7	1234.5	1138.1	1127.0	1134.9	1321.4	1351.4	1370.4	1390.9
25°	1564.8	1537.9	1411.5	1199.7	1108.0	1095.4	1125.4	1316.7	1334.0	1338.8	1379.9
27.5°	1528.5	1493.7	1345.1	1168.1	1071.7	1066.9	1133.3	1296.1	1308.7	1313.5	1357.8
30°	1484.2	1432.0	1270.8	1134.9	1033.8	1032.2	1134.9	1270.8	1267.6	1280.3	1324.6
32.5°	1438.4	1340.4	1187.0	1093.8	997.4	995.8	1123.8	1232.9	1229.7	1247.1	1280.3
35°	1395.7	1269.2	1073.3	1046.4	951.6	953.1	1097.0	1188.6	1190.2	1206.0	1226.5
37.5°	1351.4	1207.6	948.4	994.2	907.3	907.3	1060.6	1147.5	1144.3	1149.1	1177.6
40°	1299.3	1111.2	837.7	926.2	866.2	861.4	1016.4	1103.2	1092.2	1090.6	1130.1
42.5°	1244.0	1005.3	755.5	836.1	818.7	812.5	962.6	1049.5	1029.0	1033.8	1084.3
45°	1183.8	976.9	692.3	706.6	769.8	765.0	904.1	987.9	973.7	986.3	1038.5
47.5°	1123.8	919.9	671.7	586.5	717.6	716.0	839.3	927.8	919.9	932.6	987.9
50°	1041.6	856.7	670.1	502.7	659.1	665.5	761.9	869.4	869.4	880.4	938.9
52.5°	935.8	779.2	608.5	455.2	591.1	610.1	693.9	818.7	821.9	833.0	885.2
55°	839.3	698.6	564.3	418.9	510.5	551.6	627.6	766.6	772.9	784.0	831.4
57.5°	750.8	581.7	554.8	376.2	436.3	475.8	569.0	716.0	719.2	728.7	774.5
60°	655.9	420.5	508.9	330.4	371.5	401.4	515.3	655.9	667.1	673.3	712.8
62.5°	548.4	305.0	461.6	298.7	339.8	346.1	471.0	599.1	613.3	618.0	641.8
65°	390.4	256.1	392.0	271.9	306.6	308.2	423.6	540.6	553.2	561.1	578.5
67.5°	263.9	208.7	298.7	246.6	281.3	282.9	377.8	472.6	490.0	496.3	507.3
70°	183.3	139.1	221.3	219.7	252.9	256.1	328.8	411.0	426.7	431.5	437.9
72.5°	134.3	112.3	183.3	197.5	222.9	226.0	278.1	341.4	357.3	361.9	365.1
75°	102.7	118.5	148.6	172.3	189.7	191.3	227.6	278.1	289.3	292.4	294.0
77.5°	82.2	110.7	109.1	139.1	154.9	151.8	178.6	215.0	224.4	224.4	224.4
80°	61.6	87.0	82.2	99.6	113.8	110.7	128.1	153.4	156.4	159.6	158.0
82.5°	45.9	55.3	55.3	63.2	75.8	72.7	85.4	99.6	99.6	99.6	102.7
85°	28.5	31.6	25.3	33.2	42.7	41.1	47.4	53.7	55.3	55.3	52.1
87.5°	17.4	14.2	7.9	12.6	19.0	19.0	22.1	23.7	22.1	22.1	22.1
90°	5.0	3.5	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7
92.5°	33.9	20.7	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8
95°	66.4	42.4	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0
97.5°	74.2	53.1	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2
100°	80.7	61.5	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8
102.5°	87.0	69.1	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2
105°	96.5	81.4	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8
107.5°	109.8	95.7	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2
110°	117.5	104.7	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0



TEST NUMBER: P934586

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	126.5	114.3	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6
115°	140.0	128.8	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3
117.5°	153.2	143.0	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9
120°	160.8	151.3	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3
122.5°	169.7	160.1	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2
125°	181.2	172.4	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3
127.5°	192.2	183.3	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9
130°	199.3	189.8	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6
132.5°	205.3	195.8	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3
135°	212.5	203.7	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8
137.5°	221.4	212.7	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4
140°	227.5	219.5	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1
142.5°	232.0	224.7	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1
145°	239.0	232.6	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1
147.5°	247.5	241.3	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4
150°	252.1	246.4	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4
152.5°	255.4	251.1	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4
155°	262.0	258.8	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7
157.5°	268.3	265.3	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6
160°	271.4	269.0	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5
162.5°	274.6	272.8	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6
165°	279.2	277.5	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6
167.5°	281.8	281.0	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0
170°	284.7	283.9	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0
172.5°	285.1	284.9	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9
175°	286.8	286.8	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6
177.5°	286.8	286.8	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934586

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1612.3	1607.5	1613.9	1596.4	1613.9	1607.5	1612.3	1623.3	1613.9	1620.1	1626.5
5°	1414.6	1406.8	1381.5	1360.9	1381.5	1406.8	1414.6	1447.9	1463.7	1492.2	1530.1
7.5°	1264.5	1258.2	1251.8	1239.2	1251.8	1258.2	1264.5	1274.0	1289.8	1315.1	1343.6
10°	1231.3	1232.9	1242.4	1240.8	1242.4	1232.9	1231.3	1228.1	1223.4	1228.1	1245.5
12.5°	1316.7	1330.9	1383.1	1379.9	1383.1	1330.9	1316.7	1253.4	1210.7	1202.9	1206.0
15°	1414.6	1419.4	1430.5	1432.0	1430.5	1419.4	1414.6	1389.4	1261.4	1206.0	1188.6
17.5°	1424.2	1425.8	1433.6	1433.6	1433.6	1425.8	1424.2	1413.0	1370.4	1296.1	1198.1
20°	1416.2	1419.4	1435.2	1438.4	1435.2	1419.4	1416.2	1402.0	1378.3	1351.4	1277.2
22.5°	1413.0	1419.4	1432.0	1430.5	1432.0	1419.4	1413.0	1390.9	1370.4	1351.4	1321.4
25°	1397.3	1397.3	1398.9	1400.4	1398.9	1397.3	1397.3	1379.9	1338.8	1334.0	1316.7
27.5°	1364.1	1367.3	1376.7	1375.1	1376.7	1367.3	1364.1	1357.8	1313.5	1308.7	1296.1
30°	1334.0	1330.9	1323.0	1316.7	1323.0	1330.9	1334.0	1324.6	1280.3	1267.6	1270.8
32.5°	1283.5	1275.6	1267.6	1263.0	1267.6	1275.6	1283.5	1280.3	1247.1	1229.7	1232.9
35°	1223.4	1224.9	1223.4	1218.7	1223.4	1224.9	1223.4	1226.5	1206.0	1190.2	1188.6
37.5°	1180.8	1183.8	1182.4	1176.0	1182.4	1183.8	1180.8	1177.6	1149.1	1144.3	1147.5
40°	1136.5	1138.1	1136.5	1131.7	1136.5	1138.1	1136.5	1130.1	1090.6	1092.2	1103.2
42.5°	1093.8	1092.2	1087.5	1084.3	1087.5	1092.2	1093.8	1084.3	1033.8	1029.0	1049.5
45°	1044.8	1046.4	1036.9	1032.2	1036.9	1046.4	1044.8	1038.5	986.3	973.7	987.9
47.5°	995.8	995.8	987.9	983.1	987.9	995.8	995.8	987.9	932.6	919.9	927.8
50°	943.6	942.0	931.0	929.4	931.0	942.0	943.6	938.9	880.4	869.4	869.4
52.5°	883.6	883.6	885.2	888.3	885.2	883.6	883.6	885.2	833.0	821.9	818.7
55°	831.4	833.0	844.1	847.2	844.1	833.0	831.4	831.4	784.0	772.9	766.6
57.5°	777.6	777.6	785.6	785.6	785.6	777.6	777.6	774.5	728.7	719.2	716.0
60°	716.0	719.2	725.5	723.9	725.5	719.2	716.0	712.8	673.3	667.1	655.9
62.5°	651.2	654.4	655.9	652.8	655.9	654.4	651.2	641.8	618.0	613.3	599.1
65°	583.3	586.5	588.0	584.9	588.0	586.5	583.3	578.5	561.1	553.2	540.6
67.5°	513.7	512.1	510.5	516.9	510.5	512.1	513.7	507.3	496.3	490.0	472.6
70°	442.5	442.5	441.0	444.1	441.0	442.5	442.5	437.9	431.5	426.7	411.0
72.5°	366.7	365.1	371.5	366.7	371.5	365.1	366.7	365.1	361.9	357.3	341.4
75°	292.4	295.6	292.4	297.2	292.4	295.6	292.4	294.0	292.4	289.3	278.1
77.5°	222.9	226.0	222.9	222.9	222.9	226.0	222.9	224.4	224.4	224.4	215.0
80°	158.0	156.4	156.4	154.9	156.4	156.4	158.0	158.0	159.6	156.4	153.4
82.5°	101.2	99.6	99.6	102.7	99.6	99.6	101.2	102.7	99.6	99.6	99.6
85°	55.3	56.9	53.7	53.7	53.7	56.9	55.3	52.1	55.3	55.3	53.7
87.5°	20.5	19.0	19.0	19.0	19.0	19.0	20.5	22.1	22.1	22.1	23.7
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6
92.5°	36.6	35.1	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3
95°	124.1	119.7	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3
97.5°	286.6	278.2	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9
100°	402.6	392.6	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8
102.5°	501.5	492.9	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3
105°	617.0	612.4	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4
107.5°	677.1	678.2	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4
110°	692.5	697.2	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0



TEST NUMBER: P934586

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	682.7	690.0	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3
115°	649.3	659.5	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9
117.5°	603.3	614.6	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6
120°	572.4	583.4	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8
122.5°	541.3	552.2	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3
125°	500.3	510.3	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0
127.5°	467.4	475.8	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4
130°	446.6	454.4	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8
132.5°	428.9	435.9	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0
135°	403.9	409.8	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8
137.5°	385.4	390.3	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4
140°	370.6	375.2	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7
142.5°	360.2	364.1	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7
145°	344.6	347.5	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8
147.5°	331.5	334.0	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6
150°	324.0	326.1	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6
152.5°	318.0	319.5	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2
155°	310.9	312.0	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6
157.5°	304.8	305.5	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0
160°	301.7	302.1	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7
162.5°	298.8	299.2	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4
165°	294.3	294.7	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3
167.5°	292.4	292.6	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4
170°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1
172.5°	290.8	290.7	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4
177.5°	288.4	288.2	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934586

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1650.2	1658.0	1662.8	1669.2	1684.9
5°	1587.0	1616.9	1626.5	1650.2	1678.6
7.5°	1447.9	1539.5	1564.8	1621.7	1666.0
10°	1313.5	1405.2	1449.5	1583.8	1650.2
12.5°	1245.5	1299.3	1329.3	1517.4	1628.1
15°	1202.9	1240.8	1263.0	1428.9	1602.7
17.5°	1169.6	1196.5	1212.3	1342.0	1568.0
20°	1149.1	1161.8	1176.0	1278.7	1528.5
22.5°	1134.9	1127.0	1138.1	1234.5	1474.7
25°	1125.4	1095.4	1108.0	1199.7	1411.5
27.5°	1133.3	1066.9	1071.7	1168.1	1345.1
30°	1134.9	1032.2	1033.8	1134.9	1270.8
32.5°	1123.8	995.8	997.4	1093.8	1187.0
35°	1097.0	953.1	951.6	1046.4	1073.3
37.5°	1060.6	907.3	907.3	994.2	948.4
40°	1016.4	861.4	866.2	926.2	837.7
42.5°	962.6	812.5	818.7	836.1	755.5
45°	904.1	765.0	769.8	706.6	692.3
47.5°	839.3	716.0	717.6	586.5	671.7
50°	761.9	665.5	659.1	502.7	670.1
52.5°	693.9	610.1	591.1	455.2	608.5
55°	627.6	551.6	510.5	418.9	564.3
57.5°	569.0	475.8	436.3	376.2	554.8
60°	515.3	401.4	371.5	330.4	508.9
62.5°	471.0	346.1	339.8	298.7	461.6
65°	423.6	308.2	306.6	271.9	392.0
67.5°	377.8	282.9	281.3	246.6	298.7
70°	328.8	256.1	252.9	219.7	221.3
72.5°	278.1	226.0	222.9	197.5	183.3
75°	227.6	191.3	189.7	172.3	148.6
77.5°	178.6	151.8	154.9	139.1	109.1
80°	128.1	110.7	113.8	99.6	82.2
82.5°	85.4	72.7	75.8	63.2	55.3
85°	47.4	41.1	42.7	33.2	25.3
87.5°	22.1	19.0	19.0	12.6	7.9
90°	8.5	5.4	5.0	3.5	2.0
92.5°	52.2	37.2	33.9	20.7	7.7
95°	128.5	72.4	66.4	42.4	18.5
97.5°	173.1	79.5	74.2	53.1	31.9
100°	189.3	85.5	80.7	61.5	42.3
102.5°	196.8	91.4	87.0	69.1	51.2
105°	202.3	100.3	96.5	81.4	66.2
107.5°	203.3	113.4	109.8	95.7	81.6
110°	201.8	120.7	117.5	104.7	92.0



TEST NUMBER: P934586

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	201.8	129.5	126.5	114.3	102.2
115°	203.7	142.8	140.0	128.8	117.6
117.5°	207.5	155.7	153.2	143.0	132.8
120°	210.6	163.3	160.8	151.3	141.7
122.5°	215.0	172.1	169.7	160.1	150.4
125°	221.0	183.4	181.2	172.4	163.6
127.5°	227.0	194.5	192.2	183.3	174.4
130°	231.4	201.7	199.3	189.8	180.2
132.5°	234.9	207.7	205.3	195.8	186.1
135°	238.7	214.6	212.5	203.7	195.0
137.5°	244.5	223.5	221.4	212.7	204.1
140°	248.0	229.5	227.5	219.5	211.6
142.5°	251.0	233.9	232.0	224.7	217.3
145°	254.8	240.6	239.0	232.6	226.2
147.5°	260.5	249.1	247.5	241.3	235.1
150°	263.4	253.5	252.1	246.4	240.8
152.5°	265.3	256.4	255.4	251.1	246.8
155°	269.6	262.7	262.0	258.8	255.6
157.5°	273.8	269.1	268.3	265.3	262.2
160°	275.7	272.0	271.4	269.0	266.7
162.5°	277.8	275.1	274.6	272.8	271.0
165°	280.8	279.5	279.2	277.5	275.9
167.5°	283.0	282.0	281.8	281.0	280.3
170°	285.0	284.9	284.7	283.9	283.2
172.5°	285.1	285.1	285.1	284.9	284.7
175°	286.3	286.8	286.8	286.8	286.8
177.5°	286.4	286.8	286.8	286.8	286.8
180°	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934586
 CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-5000K

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	15.98	17.06	16.75	17.85	18.80	18.78	19.86	19.55	20.64	21.60
	3H	16.48	17.44	17.26	18.24	19.22	20.13	21.10	20.91	21.89	22.88
	4H	16.68	17.59	17.47	18.39	19.39	20.58	21.49	21.38	22.30	23.29
	6H	16.81	17.65	17.62	18.46	19.47	20.87	21.71	21.68	22.52	23.53
	8H	16.82	17.62	17.63	18.45	19.46	20.95	21.75	21.76	22.58	23.59
	12H	16.79	17.56	17.62	18.38	19.42	20.99	21.75	21.81	22.58	23.61
4H	2H	17.04	17.95	17.83	18.75	19.75	19.22	20.13	20.02	20.93	21.93
	3H	18.08	18.84	18.89	19.68	20.69	20.73	21.49	21.55	22.33	23.34
	4H	18.37	19.06	19.19	19.89	20.93	21.26	21.95	22.09	22.79	23.83
	6H	18.50	19.10	19.35	19.96	21.01	21.63	22.23	22.48	23.09	24.14
	8H	18.51	19.07	19.36	19.93	20.99	21.74	22.30	22.59	23.16	24.21
	12H	18.49	18.99	19.36	19.87	20.94	21.80	22.30	22.67	23.18	24.25
8H	4H	18.83	19.39	19.68	20.25	21.30	21.41	21.96	22.25	22.82	23.88
	6H	19.10	19.56	19.98	20.46	21.52	21.84	22.31	22.72	23.21	24.26
	8H	19.15	19.56	20.03	20.45	21.53	21.99	22.40	22.88	23.30	24.37
	12H	19.14	19.50	20.03	20.39	21.52	22.10	22.46	22.98	23.34	24.47
12H	4H	18.85	19.35	19.71	20.23	21.29	21.38	21.88	22.25	22.76	23.82
	6H	19.16	19.57	20.05	20.47	21.54	21.84	22.25	22.73	23.15	24.22
	8H	19.24	19.60	20.13	20.49	21.62	22.01	22.37	22.90	23.26	24.39