

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: P934582

Luminaire Tested: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934582
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-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

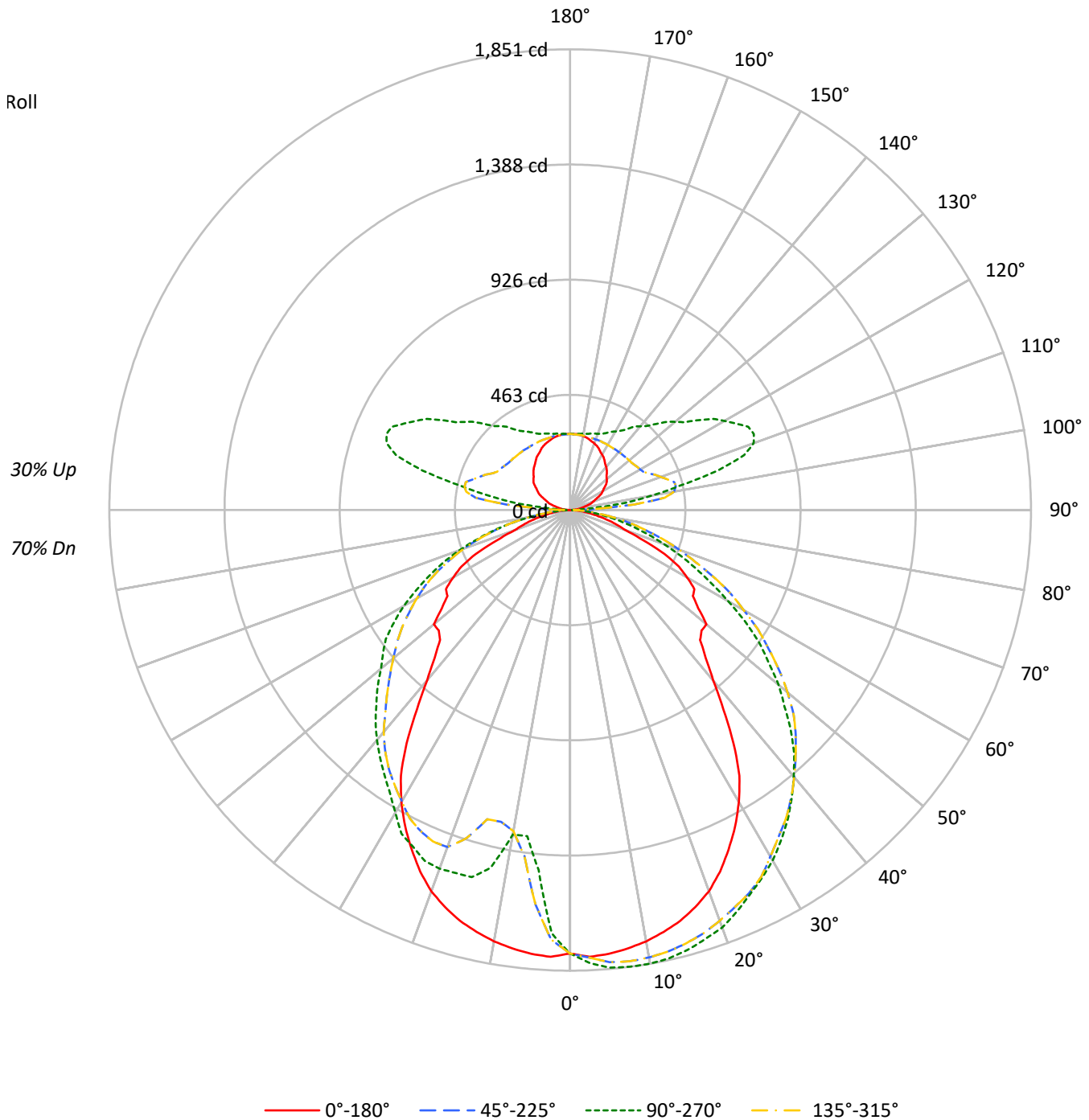
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6603.4 lumens
Efficiency: N/A
Efficacy: 117.9 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





TEST NUMBER: P934582

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16532	16532	16532	16532
5°	16637	16689	16637	13123
10°	16508	16439	16508	11753
15°	16309	16083	16309	13429
20°	15951	15661	15951	13457
25°	15233	15045	15233	13172
30°	14314	14535	14314	12547
35°	12742	13889	12742	11858
40°	10598	13127	10598	11339
45°	9451	12238	9451	10741
50°	10017	11175	10017	10140
55°	9400	10031	9400	9794
60°	9654	8520	9654	8970
65°	8711	7043	8711	7873
70°	5991	5613	5991	6598
75°	5198	4148	5198	4968
80°	4100	2743	4100	2985
85°	2236	1452	2236	1235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14514 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.4
10°-20°	456.6	6.9
20°-30°	705.9	10.7
30°-40°	842.6	12.8
40°-50°	847.6	12.8
50°-60°	737.5	11.2
60°-70°	522.9	7.9
70°-80°	276.6	4.2
80°-90°	70.1	1.1
90°-100°	149.1	2.3
100°-110°	392.0	5.9
110°-120°	406.4	6.2
120°-130°	326.0	4.9
130°-140°	255.8	3.9
140°-150°	196.3	3.0
150°-160°	141.4	2.1
160°-170°	86.5	1.3
170°-180°	29.2	0.4
0°-30°	1323.3	20.0
0°-40°	2165.9	32.8
0°-60°	3751.0	56.8
0°-90°	4620.6	70.0
90°-120°	947.5	14.3
90°-150°	1725.7	26.1
90°-180°	1983.0	30.0
0°-180°	6603.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1782	1782	1782	1782	1782	
5°	1790	1846	1790	1451	1790	170
15°	1709	1829	1709	1527	1709	481
25°	1505	1706	1505	1493	1505	691
35°	1144	1522	1144	1300	1144	708
45°	738	1254	738	1101	738	591
55°	602	925	602	904	602	553
65°	418	558	418	624	418	399
75°	158	265	158	317	158	167
85°	27	67	27	57	27	36
90°	2	8	2	8	2	3
95°	20	90	20	90	20	22
105°	71	614	71	614	71	75
115°	125	790	125	790	125	124
125°	174	629	174	629	174	155
135°	208	488	208	488	208	161
145°	241	396	241	396	241	151
155°	273	341	273	341	273	125
165°	294	318	294	318	294	83
175°	306	308	306	308	306	29
180°	306	306	306	306	306	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1796.8	1796.8	1806.9	1810.3	1810.3	1805.2	1800.2	1805.2	1820.4	1825.5	1823.8
5°	1790.0	1803.6	1822.1	1825.5	1828.9	1827.2	1823.8	1827.2	1844.0	1847.4	1849.1
7.5°	1776.6	1801.9	1825.5	1830.5	1835.5	1830.5	1828.9	1832.2	1849.1	1852.5	1852.5
10°	1759.7	1795.1	1822.1	1825.5	1830.5	1825.5	1825.5	1832.2	1849.1	1852.5	1854.2
12.5°	1736.1	1785.0	1810.3	1813.6	1820.4	1818.7	1817.0	1823.8	1840.6	1844.0	1844.0
15°	1709.1	1766.5	1790.0	1793.4	1805.2	1801.9	1801.9	1808.6	1827.2	1832.2	1830.5
17.5°	1672.1	1742.9	1769.8	1774.9	1783.3	1781.6	1783.3	1790.0	1806.9	1810.3	1811.9
20°	1630.0	1710.8	1742.9	1747.9	1756.3	1756.3	1756.3	1764.8	1781.6	1788.4	1788.4
22.5°	1572.6	1677.2	1710.8	1714.2	1724.3	1724.3	1727.7	1739.5	1754.7	1756.3	1756.3
25°	1505.2	1640.0	1668.7	1678.9	1688.9	1694.0	1699.1	1705.7	1710.8	1709.1	1710.8
27.5°	1434.4	1592.8	1630.0	1636.6	1650.2	1655.3	1661.9	1663.6	1665.3	1670.4	1667.0
30°	1355.2	1527.1	1582.7	1589.5	1611.4	1614.7	1608.0	1611.4	1619.8	1623.2	1626.6
32.5°	1265.8	1429.4	1533.8	1549.0	1569.3	1559.1	1557.4	1562.5	1576.0	1576.0	1579.4
35°	1144.5	1353.5	1488.3	1501.9	1517.0	1505.2	1511.9	1513.6	1522.1	1527.1	1525.5
37.5°	1011.3	1287.7	1441.1	1451.3	1463.0	1447.9	1458.0	1463.0	1469.8	1466.4	1466.4
40°	893.3	1184.9	1385.5	1392.3	1402.4	1390.6	1400.7	1404.1	1407.4	1404.1	1402.4
42.5°	805.7	1072.0	1326.6	1334.9	1328.2	1336.6	1340.0	1346.8	1341.7	1334.9	1334.9
45°	738.2	1041.7	1262.4	1272.6	1262.4	1276.0	1281.1	1281.1	1265.8	1262.4	1260.8
47.5°	716.3	981.0	1198.4	1198.4	1193.4	1210.2	1218.6	1206.9	1191.7	1186.6	1186.6
50°	714.6	913.5	1110.7	1104.1	1127.7	1147.9	1139.4	1127.7	1115.8	1097.3	1097.3
52.5°	648.9	831.0	997.9	1023.1	1060.2	1072.0	1058.5	1046.7	1026.5	1018.1	1011.3
55°	601.8	745.0	895.0	945.6	984.3	999.5	974.3	962.4	932.2	927.1	923.7
57.5°	591.6	620.3	800.7	864.7	911.8	910.2	895.0	873.1	847.8	842.8	841.1
60°	542.7	448.4	699.5	775.4	824.2	819.2	805.7	785.4	761.8	758.5	755.2
62.5°	492.2	325.3	584.9	670.8	739.9	738.2	726.5	696.1	679.3	670.8	664.1
65°	418.0	273.1	416.3	558.0	657.4	660.7	635.4	613.5	595.0	584.9	583.2
67.5°	318.5	222.5	281.5	465.2	578.2	574.8	542.7	532.7	509.1	504.0	493.9
70°	236.0	148.3	195.5	377.6	500.6	492.2	466.9	455.1	433.2	421.4	414.6
72.5°	195.5	119.7	143.2	293.3	421.4	411.2	389.3	375.9	357.4	347.2	340.4
75°	158.5	126.4	109.6	217.4	342.1	335.5	315.2	301.7	286.5	273.1	274.7
77.5°	116.3	118.0	87.6	160.2	271.4	261.3	249.5	232.6	225.9	212.3	212.3
80°	87.6	92.7	65.7	109.6	195.5	195.5	185.5	173.6	161.8	155.1	155.1
82.5°	59.0	59.0	48.9	69.1	133.2	128.1	121.3	118.0	111.3	107.9	107.9
85°	27.0	33.7	30.4	42.1	72.5	75.9	75.9	72.5	70.8	67.4	69.1
87.5°	8.5	15.1	18.5	23.6	37.1	38.7	40.4	40.4	40.4	42.1	42.1
90°	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4	7.8	7.8
92.5°	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3	39.0	37.4
95°	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8	132.4	127.7
97.5°	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9	305.7	296.7
100°	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4	429.3	418.6
102.5°	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4	534.8	525.6
105°	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1	658.0	653.1
107.5°	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6	722.0	723.2
110°	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7	738.4	743.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5	728.0	735.8
115°	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3	692.4	703.3
117.5°	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4	643.3	655.4
120°	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4	610.3	622.1
122.5°	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8	577.3	588.8
125°	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9	533.6	544.2
127.5°	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0	498.4	507.4
130°	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8	476.3	484.6
132.5°	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7	457.4	464.8
135°	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0	430.7	437.0
137.5°	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8	410.9	416.2
140°	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8	395.2	400.1
142.5°	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4	384.1	388.2
145°	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6	367.4	370.6
147.5°	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3	353.5	356.2
150°	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0	345.5	347.7
152.5°	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8	339.1	340.7
155°	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7	331.6	332.7
157.5°	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3	325.0	325.8
160°	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1	321.7	322.1
162.5°	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0	318.6	319.0
165°	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9	313.8	314.2
167.5°	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3	311.8	312.0
170°	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3	311.8	311.8
172.5°	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1	310.2	310.0
175°	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7	308.0	308.0
177.5°	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6	307.6	307.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1827.2	1822.1	1827.2	1823.8	1825.5	1820.4	1805.2	1800.2	1805.2	1810.3	1810.3
5°	1849.1	1845.7	1849.1	1849.1	1847.4	1844.0	1827.2	1823.8	1827.2	1828.9	1825.5
7.5°	1855.7	1850.8	1855.7	1852.5	1852.5	1849.1	1832.2	1828.9	1830.5	1835.5	1830.5
10°	1855.7	1850.8	1855.7	1854.2	1852.5	1849.1	1832.2	1825.5	1825.5	1830.5	1825.5
12.5°	1847.4	1844.0	1847.4	1844.0	1844.0	1840.6	1823.8	1817.0	1818.7	1820.4	1813.6
15°	1833.8	1828.9	1833.8	1830.5	1832.2	1827.2	1808.6	1801.9	1801.9	1805.2	1793.4
17.5°	1813.6	1806.9	1813.6	1811.9	1810.3	1806.9	1790.0	1783.3	1781.6	1783.3	1774.9
20°	1790.0	1785.0	1790.0	1788.4	1788.4	1781.6	1764.8	1756.3	1756.3	1756.3	1747.9
22.5°	1753.0	1747.9	1753.0	1756.3	1756.3	1754.7	1739.5	1727.7	1724.3	1724.3	1714.2
25°	1710.8	1705.7	1710.8	1710.8	1709.1	1710.8	1705.7	1699.1	1694.0	1688.9	1678.9
27.5°	1670.4	1667.0	1670.4	1667.0	1670.4	1665.3	1663.6	1661.9	1655.3	1650.2	1636.6
30°	1630.0	1626.6	1630.0	1626.6	1623.2	1619.8	1611.4	1608.0	1614.7	1611.4	1589.5
32.5°	1579.4	1576.0	1579.4	1579.4	1576.0	1576.0	1562.5	1557.4	1559.1	1569.3	1549.0
35°	1527.1	1522.1	1527.1	1525.5	1527.1	1522.1	1513.6	1511.9	1505.2	1517.0	1501.9
37.5°	1466.4	1461.3	1466.4	1466.4	1466.4	1469.8	1463.0	1458.0	1447.9	1463.0	1451.3
40°	1404.1	1397.3	1404.1	1402.4	1404.1	1407.4	1404.1	1400.7	1390.6	1402.4	1392.3
42.5°	1333.2	1331.6	1333.2	1334.9	1334.9	1341.7	1346.8	1340.0	1336.6	1328.2	1334.9
45°	1257.4	1254.1	1257.4	1260.8	1262.4	1265.8	1281.1	1281.1	1276.0	1262.4	1272.6
47.5°	1176.5	1168.1	1176.5	1186.6	1186.6	1191.7	1206.9	1218.6	1210.2	1193.4	1198.4
50°	1090.5	1092.2	1090.5	1097.3	1097.3	1115.8	1127.7	1139.4	1147.9	1127.7	1104.1
52.5°	1006.3	1004.6	1006.3	1011.3	1018.1	1026.5	1046.7	1058.5	1072.0	1060.2	1023.1
55°	922.0	925.4	922.0	923.7	927.1	932.2	962.4	974.3	999.5	984.3	945.6
57.5°	837.7	832.7	837.7	841.1	842.8	847.8	873.1	895.0	910.2	911.8	864.7
60°	739.9	733.3	739.9	755.2	758.5	761.8	785.4	805.7	819.2	824.2	775.4
62.5°	654.0	642.2	654.0	664.1	670.8	679.3	696.1	726.5	738.2	739.9	670.8
65°	562.9	558.0	562.9	583.2	584.9	595.0	613.5	635.4	660.7	657.4	558.0
67.5°	480.4	480.4	480.4	493.9	504.0	509.1	532.7	542.7	574.8	578.2	465.2
70°	404.6	402.9	404.6	414.6	421.4	433.2	455.1	466.9	492.2	500.6	377.6
72.5°	332.1	330.4	332.1	340.4	347.2	357.4	375.9	389.3	411.2	421.4	293.3
75°	268.0	264.6	268.0	274.7	273.1	286.5	301.7	315.2	335.5	342.1	217.4
77.5°	205.7	205.7	205.7	212.3	212.3	225.9	232.6	249.5	261.3	271.4	160.2
80°	153.4	151.7	153.4	155.1	155.1	161.8	173.6	185.5	195.5	195.5	109.6
82.5°	107.9	104.5	107.9	107.9	107.9	111.3	118.0	121.3	128.1	133.2	69.1
85°	67.4	67.4	67.4	69.1	67.4	70.8	72.5	75.9	75.9	72.5	42.1
87.5°	43.8	42.1	43.8	42.1	42.1	40.4	40.4	40.4	38.7	37.1	23.6
90°	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4	9.1	5.8
92.5°	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1	55.7	39.6
95°	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8	137.0	77.2
97.5°	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7	184.6	84.8
100°	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6	201.9	91.1
102.5°	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7	209.9	97.5
105°	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9	215.7	107.0
107.5°	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8	216.8	120.9
110°	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6	215.2	128.7



TEST NUMBER: P934582

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1	215.2	138.1
115°	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8	217.2	152.3
117.5°	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9	221.3	166.0
120°	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9	224.6	174.1
122.5°	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3	229.3	183.6
125°	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0	235.7	195.6
127.5°	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3	242.0	207.4
130°	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7	246.7	215.1
132.5°	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0	250.5	221.5
135°	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7	254.6	228.9
137.5°	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5	260.8	238.3
140°	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8	264.4	244.7
142.5°	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8	267.6	249.4
145°	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9	271.7	256.6
147.5°	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9	277.8	265.6
150°	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9	280.9	270.3
152.5°	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6	283.0	273.4
155°	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1	287.4	280.2
157.5°	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6	291.9	286.9
160°	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3	294.0	290.0
162.5°	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1	296.2	293.3
165°	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1	299.4	298.1
167.5°	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3	301.8	300.7
170°	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0	303.9	303.8
172.5°	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4	305.3	305.9
177.5°	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8	305.4	305.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934582

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1806.9	1796.8	1796.8	1780.0	1773.2	1768.1	1759.7	1734.4	1727.7	1721.0	1731.0
5°	1822.1	1803.6	1790.0	1759.7	1734.4	1724.3	1692.3	1631.6	1591.2	1560.8	1544.0
7.5°	1825.5	1801.9	1776.6	1729.4	1668.7	1641.7	1544.0	1432.7	1402.4	1375.4	1358.5
10°	1822.1	1795.1	1759.7	1688.9	1545.7	1498.5	1400.7	1328.2	1309.6	1304.7	1309.6
12.5°	1810.3	1785.0	1736.1	1618.1	1417.5	1385.5	1328.2	1286.0	1282.7	1291.1	1336.6
15°	1790.0	1766.5	1709.1	1523.8	1346.8	1323.2	1282.7	1267.5	1286.0	1345.1	1481.6
17.5°	1769.8	1742.9	1672.1	1431.1	1292.8	1276.0	1247.3	1277.7	1382.1	1461.3	1506.8
20°	1742.9	1710.8	1630.0	1363.6	1254.1	1238.9	1225.4	1361.9	1441.1	1469.8	1495.1
22.5°	1710.8	1677.2	1572.6	1316.4	1213.6	1201.8	1210.2	1409.1	1441.1	1461.3	1483.2
25°	1668.7	1640.0	1505.2	1279.4	1181.6	1168.1	1200.1	1404.1	1422.6	1427.7	1471.5
27.5°	1630.0	1592.8	1434.4	1245.6	1142.8	1137.7	1208.5	1382.1	1395.6	1400.7	1447.9
30°	1582.7	1527.1	1355.2	1210.2	1102.4	1100.7	1210.2	1355.2	1351.8	1365.3	1412.5
32.5°	1533.8	1429.4	1265.8	1166.4	1063.6	1061.9	1198.4	1314.7	1311.3	1329.9	1365.3
35°	1488.3	1353.5	1144.5	1115.8	1014.7	1016.4	1169.8	1267.5	1269.2	1286.0	1307.9
37.5°	1441.1	1287.7	1011.3	1060.2	967.5	967.5	1131.0	1223.7	1220.3	1225.4	1255.8
40°	1385.5	1184.9	893.3	987.7	923.7	918.6	1083.8	1176.5	1164.7	1163.0	1205.2
42.5°	1326.6	1072.0	805.7	891.6	873.1	866.4	1026.5	1119.2	1097.3	1102.4	1156.3
45°	1262.4	1041.7	738.2	753.5	820.9	815.8	964.1	1053.5	1038.3	1051.8	1107.5
47.5°	1198.4	981.0	716.3	625.4	765.2	763.5	895.0	989.4	981.0	994.5	1053.5
50°	1110.7	913.5	714.6	536.0	702.9	709.6	812.4	927.1	927.1	938.8	1001.2
52.5°	997.9	831.0	648.9	485.5	630.4	650.6	739.9	873.1	876.5	888.3	943.9
55°	895.0	745.0	601.8	446.7	544.4	588.2	669.2	817.5	824.2	836.0	886.6
57.5°	800.7	620.3	591.6	401.2	465.2	507.4	606.8	763.5	766.9	777.1	825.9
60°	699.5	448.4	542.7	352.3	396.1	428.1	549.5	699.5	711.3	718.0	760.1
62.5°	584.9	325.3	492.2	318.5	362.3	369.1	502.3	638.8	654.0	659.1	684.4
65°	416.3	273.1	418.0	289.9	327.0	328.7	451.7	576.5	589.9	598.4	616.9
67.5°	281.5	222.5	318.5	262.9	300.0	301.7	402.9	504.0	522.5	529.3	541.0
70°	195.5	148.3	236.0	234.3	269.7	273.1	350.6	438.2	455.1	460.2	466.9
72.5°	143.2	119.7	195.5	210.7	237.6	241.0	296.6	364.0	381.0	386.0	389.3
75°	109.6	126.4	158.5	183.8	202.3	204.0	242.7	296.6	308.5	311.8	313.5
77.5°	87.6	118.0	116.3	148.3	165.1	161.8	190.4	229.3	239.3	239.3	239.3
80°	65.7	92.7	87.6	106.2	121.3	118.0	136.6	163.5	166.8	170.2	168.5
82.5°	48.9	59.0	59.0	67.4	80.9	77.5	91.0	106.2	106.2	106.2	109.6
85°	30.4	33.7	27.0	35.4	45.5	43.8	50.6	57.3	59.0	59.0	55.6
87.5°	18.5	15.1	8.5	13.4	20.2	20.2	23.6	25.3	23.6	23.6	23.6
90°	5.4	3.7	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4
92.5°	36.2	22.1	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3
95°	70.8	45.2	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8
97.5°	79.1	56.6	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9
100°	86.1	65.5	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4
102.5°	92.7	73.7	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4
105°	102.9	86.8	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1
107.5°	117.1	102.1	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6
110°	125.3	111.7	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7



TEST NUMBER: P934582

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	134.9	121.9	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5
115°	149.3	137.3	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3
117.5°	163.3	152.5	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4
120°	171.5	161.4	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4
122.5°	181.0	170.7	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8
125°	193.2	183.9	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9
127.5°	205.0	195.5	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0
130°	212.5	202.4	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8
132.5°	218.9	208.8	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7
135°	226.6	217.2	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0
137.5°	236.1	226.8	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8
140°	242.6	234.1	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8
142.5°	247.4	239.6	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4
145°	254.9	248.0	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6
147.5°	263.9	257.4	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3
150°	268.8	262.7	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0
152.5°	272.3	267.7	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8
155°	279.4	276.0	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7
157.5°	286.2	282.9	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3
160°	289.4	286.8	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1
162.5°	292.8	290.9	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0
165°	297.7	295.9	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9
167.5°	300.5	299.7	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3
170°	303.6	302.8	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3
172.5°	304.0	303.8	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1
175°	305.9	305.9	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7
177.5°	305.9	305.9	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934582

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1719.3	1714.2	1721.0	1702.4	1721.0	1714.2	1719.3	1731.0	1721.0	1727.7	1734.4
5°	1508.5	1500.2	1473.2	1451.3	1473.2	1500.2	1508.5	1544.0	1560.8	1591.2	1631.6
7.5°	1348.5	1341.7	1334.9	1321.5	1334.9	1341.7	1348.5	1358.5	1375.4	1402.4	1432.7
10°	1313.0	1314.7	1324.9	1323.2	1324.9	1314.7	1313.0	1309.6	1304.7	1309.6	1328.2
12.5°	1404.1	1419.2	1474.9	1471.5	1474.9	1419.2	1404.1	1336.6	1291.1	1282.7	1286.0
15°	1508.5	1513.6	1525.5	1527.1	1525.5	1513.6	1508.5	1481.6	1345.1	1286.0	1267.5
17.5°	1518.7	1520.4	1528.8	1528.8	1528.8	1520.4	1518.7	1506.8	1461.3	1382.1	1277.7
20°	1510.2	1513.6	1530.5	1533.8	1530.5	1513.6	1510.2	1495.1	1469.8	1441.1	1361.9
22.5°	1506.8	1513.6	1527.1	1525.5	1527.1	1513.6	1506.8	1483.2	1461.3	1441.1	1409.1
25°	1490.0	1490.0	1491.7	1493.4	1491.7	1490.0	1490.0	1471.5	1427.7	1422.6	1404.1
27.5°	1454.7	1458.0	1468.1	1466.4	1468.1	1458.0	1454.7	1447.9	1400.7	1395.6	1382.1
30°	1422.6	1419.2	1410.8	1404.1	1410.8	1419.2	1422.6	1412.5	1365.3	1351.8	1355.2
32.5°	1368.7	1360.2	1351.8	1346.8	1351.8	1360.2	1368.7	1365.3	1329.9	1311.3	1314.7
35°	1304.7	1306.3	1304.7	1299.6	1304.7	1306.3	1304.7	1307.9	1286.0	1269.2	1267.5
37.5°	1259.1	1262.4	1260.8	1254.1	1260.8	1262.4	1259.1	1255.8	1225.4	1220.3	1223.7
40°	1211.9	1213.6	1211.9	1206.9	1211.9	1213.6	1211.9	1205.2	1163.0	1164.7	1176.5
42.5°	1166.4	1164.7	1159.6	1156.3	1159.6	1164.7	1166.4	1156.3	1102.4	1097.3	1119.2
45°	1114.1	1115.8	1105.8	1100.7	1105.8	1115.8	1114.1	1107.5	1051.8	1038.3	1053.5
47.5°	1061.9	1061.9	1053.5	1048.4	1053.5	1061.9	1061.9	1053.5	994.5	981.0	989.4
50°	1006.3	1004.6	992.8	991.1	992.8	1004.6	1006.3	1001.2	938.8	927.1	927.1
52.5°	942.2	942.2	943.9	947.3	943.9	942.2	942.2	943.9	888.3	876.5	873.1
55°	886.6	888.3	900.1	903.5	900.1	888.3	886.6	886.6	836.0	824.2	817.5
57.5°	829.3	829.3	837.7	837.7	837.7	829.3	829.3	825.9	777.1	766.9	763.5
60°	763.5	766.9	773.7	772.0	773.7	766.9	763.5	760.1	718.0	711.3	699.5
62.5°	694.4	697.8	699.5	696.1	699.5	697.8	694.4	684.4	659.1	654.0	638.8
65°	622.0	625.4	627.0	623.7	627.0	625.4	622.0	616.9	598.4	589.9	576.5
67.5°	547.8	546.1	544.4	551.2	544.4	546.1	547.8	541.0	529.3	522.5	504.0
70°	471.9	471.9	470.3	473.6	470.3	471.9	471.9	466.9	460.2	455.1	438.2
72.5°	391.0	389.3	396.1	391.0	396.1	389.3	391.0	389.3	386.0	381.0	364.0
75°	311.8	315.2	311.8	316.9	311.8	315.2	311.8	313.5	311.8	308.5	296.6
77.5°	237.6	241.0	237.6	237.6	237.6	241.0	237.6	239.3	239.3	239.3	229.3
80°	168.5	166.8	166.8	165.1	166.8	166.8	168.5	168.5	170.2	166.8	163.5
82.5°	107.9	106.2	106.2	109.6	106.2	106.2	107.9	109.6	106.2	106.2	106.2
85°	59.0	60.7	57.3	57.3	57.3	60.7	59.0	55.6	59.0	59.0	57.3
87.5°	21.9	20.2	20.2	20.2	20.2	20.2	21.9	23.6	23.6	23.6	25.3
90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4
92.5°	39.0	37.4	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1
95°	132.4	127.7	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8
97.5°	305.7	296.7	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7
100°	429.3	418.6	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6
102.5°	534.8	525.6	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7
105°	658.0	653.1	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9
107.5°	722.0	723.2	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8
110°	738.4	743.5	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	728.0	735.8	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1
115°	692.4	703.3	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8
117.5°	643.3	655.4	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9
120°	610.3	622.1	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9
122.5°	577.3	588.8	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3
125°	533.6	544.2	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0
127.5°	498.4	507.4	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3
130°	476.3	484.6	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7
132.5°	457.4	464.8	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0
135°	430.7	437.0	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7
137.5°	410.9	416.2	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5
140°	395.2	400.1	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8
142.5°	384.1	388.2	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8
145°	367.4	370.6	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9
147.5°	353.5	356.2	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9
150°	345.5	347.7	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9
152.5°	339.1	340.7	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6
155°	331.6	332.7	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1
157.5°	325.0	325.8	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6
160°	321.7	322.1	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3
162.5°	318.6	319.0	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1
165°	313.8	314.2	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1
167.5°	311.8	312.0	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3
170°	311.8	311.8	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0
172.5°	310.2	310.0	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4
177.5°	307.6	307.4	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



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CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1759.7	1768.1	1773.2	1780.0	1796.8
5°	1692.3	1724.3	1734.4	1759.7	1790.0
7.5°	1544.0	1641.7	1668.7	1729.4	1776.6
10°	1400.7	1498.5	1545.7	1688.9	1759.7
12.5°	1328.2	1385.5	1417.5	1618.1	1736.1
15°	1282.7	1323.2	1346.8	1523.8	1709.1
17.5°	1247.3	1276.0	1292.8	1431.1	1672.1
20°	1225.4	1238.9	1254.1	1363.6	1630.0
22.5°	1210.2	1201.8	1213.6	1316.4	1572.6
25°	1200.1	1168.1	1181.6	1279.4	1505.2
27.5°	1208.5	1137.7	1142.8	1245.6	1434.4
30°	1210.2	1100.7	1102.4	1210.2	1355.2
32.5°	1198.4	1061.9	1063.6	1166.4	1265.8
35°	1169.8	1016.4	1014.7	1115.8	1144.5
37.5°	1131.0	967.5	967.5	1060.2	1011.3
40°	1083.8	918.6	923.7	987.7	893.3
42.5°	1026.5	866.4	873.1	891.6	805.7
45°	964.1	815.8	820.9	753.5	738.2
47.5°	895.0	763.5	765.2	625.4	716.3
50°	812.4	709.6	702.9	536.0	714.6
52.5°	739.9	650.6	630.4	485.5	648.9
55°	669.2	588.2	544.4	446.7	601.8
57.5°	606.8	507.4	465.2	401.2	591.6
60°	549.5	428.1	396.1	352.3	542.7
62.5°	502.3	369.1	362.3	318.5	492.2
65°	451.7	328.7	327.0	289.9	418.0
67.5°	402.9	301.7	300.0	262.9	318.5
70°	350.6	273.1	269.7	234.3	236.0
72.5°	296.6	241.0	237.6	210.7	195.5
75°	242.7	204.0	202.3	183.8	158.5
77.5°	190.4	161.8	165.1	148.3	116.3
80°	136.6	118.0	121.3	106.2	87.6
82.5°	91.0	77.5	80.9	67.4	59.0
85°	50.6	43.8	45.5	35.4	27.0
87.5°	23.6	20.2	20.2	13.4	8.5
90°	9.1	5.8	5.4	3.7	2.1
92.5°	55.7	39.6	36.2	22.1	8.2
95°	137.0	77.2	70.8	45.2	19.7
97.5°	184.6	84.8	79.1	56.6	34.1
100°	201.9	91.1	86.1	65.5	45.1
102.5°	209.9	97.5	92.7	73.7	54.6
105°	215.7	107.0	102.9	86.8	70.6
107.5°	216.8	120.9	117.1	102.1	87.1
110°	215.2	128.7	125.3	111.7	98.1



TEST NUMBER: P934582

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	215.2	138.1	134.9	121.9	109.0
115°	217.2	152.3	149.3	137.3	125.4
117.5°	221.3	166.0	163.3	152.5	141.6
120°	224.6	174.1	171.5	161.4	151.1
122.5°	229.3	183.6	181.0	170.7	160.4
125°	235.7	195.6	193.2	183.9	174.5
127.5°	242.0	207.4	205.0	195.5	186.0
130°	246.7	215.1	212.5	202.4	192.1
132.5°	250.5	221.5	218.9	208.8	198.5
135°	254.6	228.9	226.6	217.2	208.0
137.5°	260.8	238.3	236.1	226.8	217.6
140°	264.4	244.7	242.6	234.1	225.6
142.5°	267.6	249.4	247.4	239.6	231.8
145°	271.7	256.6	254.9	248.0	241.2
147.5°	277.8	265.6	263.9	257.4	250.7
150°	280.9	270.3	268.8	262.7	256.8
152.5°	283.0	273.4	272.3	267.7	263.1
155°	287.4	280.2	279.4	276.0	272.6
157.5°	291.9	286.9	286.2	282.9	279.6
160°	294.0	290.0	289.4	286.8	284.4
162.5°	296.2	293.3	292.8	290.9	289.0
165°	299.4	298.1	297.7	295.9	294.2
167.5°	301.8	300.7	300.5	299.7	298.9
170°	303.9	303.8	303.6	302.8	302.0
172.5°	304.0	304.0	304.0	303.8	303.6
175°	305.3	305.9	305.9	305.9	305.9
177.5°	305.4	305.9	305.9	305.9	305.9
180°	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934582
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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	16.21	17.28	16.97	18.07	19.02	19.00	20.08	19.77	20.87	21.82
	3H	16.70	17.67	17.48	18.46	19.45	20.36	21.32	21.13	22.12	23.10
	4H	16.90	17.81	17.70	18.62	19.61	20.80	21.71	21.60	22.52	23.52
	6H	17.03	17.87	17.84	18.69	19.70	21.09	21.93	21.90	22.75	23.76
	8H	17.04	17.84	17.86	18.67	19.68	21.17	21.97	21.99	22.80	23.81
	12H	17.02	17.78	17.84	18.61	19.64	21.21	21.97	22.03	22.80	23.84
4H	2H	17.26	18.17	18.06	18.97	19.97	19.44	20.35	20.24	21.16	22.15
	3H	18.30	19.06	19.12	19.90	20.91	20.96	21.72	21.77	22.56	23.57
	4H	18.59	19.28	19.42	20.12	21.16	21.49	22.18	22.31	23.02	24.06
	6H	18.73	19.32	19.57	20.19	21.23	21.86	22.45	22.70	23.32	24.36
	8H	18.74	19.30	19.58	20.15	21.21	21.96	22.52	22.81	23.38	24.44
	12H	18.72	19.22	19.58	20.10	21.16	22.03	22.53	22.89	23.41	24.47
8H	4H	19.06	19.61	19.90	20.47	21.53	21.63	22.19	22.48	23.05	24.10
	6H	19.33	19.79	20.20	20.69	21.74	22.07	22.53	22.94	23.43	24.49
	8H	19.37	19.78	20.26	20.67	21.75	22.22	22.63	23.10	23.52	24.60
	12H	19.36	19.73	20.25	20.61	21.74	22.32	22.68	23.21	23.57	24.69
12H	4H	19.07	19.57	19.94	20.45	21.51	21.61	22.11	22.47	22.99	24.05
	6H	19.39	19.80	20.27	20.69	21.77	22.07	22.48	22.95	23.37	24.45
	8H	19.46	19.82	20.35	20.71	21.84	22.23	22.59	23.12	23.48	24.61