

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: P935382

Luminaire Tested: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935382
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-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: -

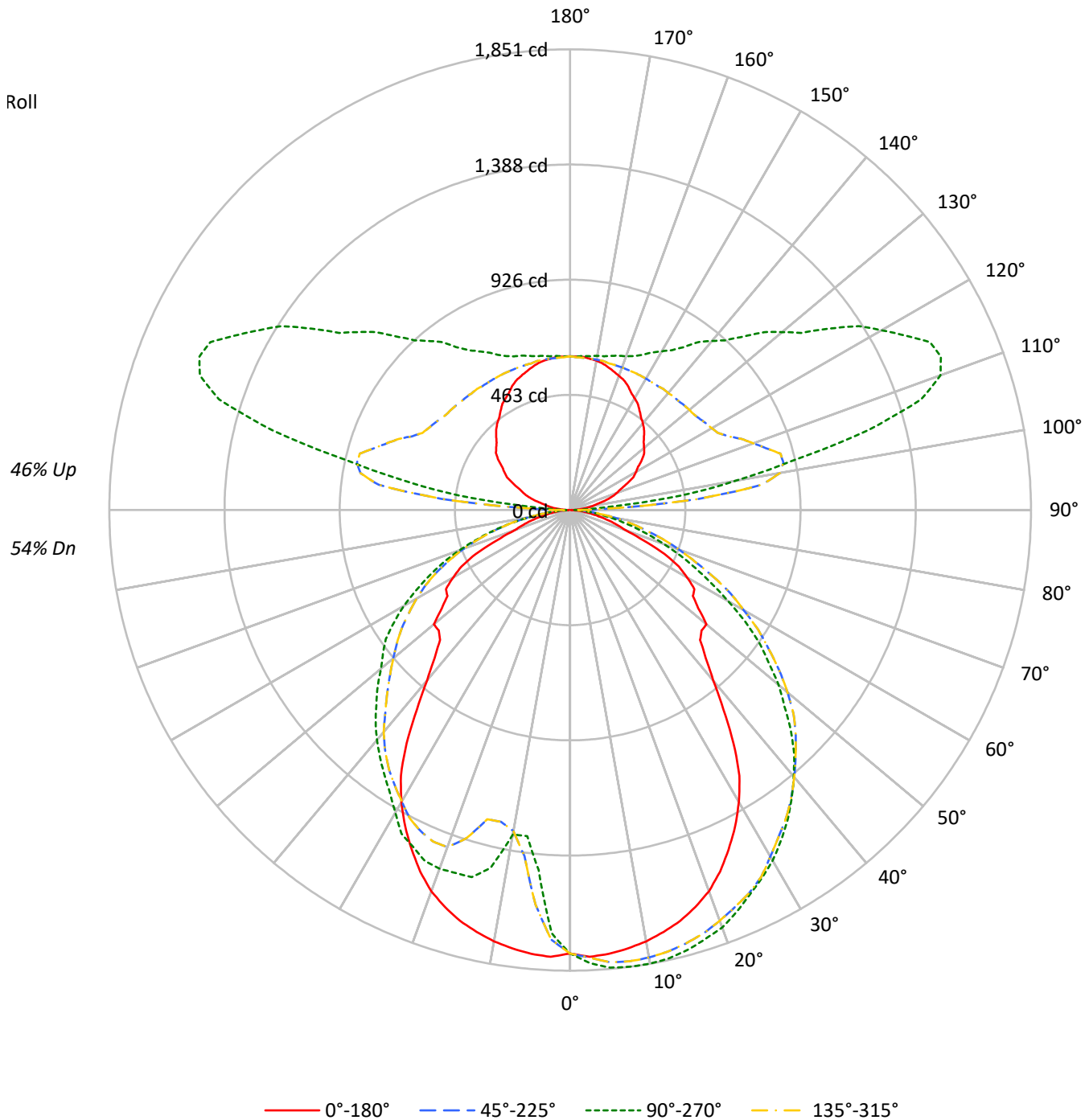
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8623.3 lumens
Efficiency: N/A
Efficacy: 125.3 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): 68.8
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: P935382

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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13

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	1.9
10°-20°	456.6	5.3
20°-30°	705.9	8.2
30°-40°	842.6	9.8
40°-50°	847.6	9.8
50°-60°	737.5	8.6
60°-70°	522.9	6.1
70°-80°	276.6	3.2
80°-90°	71.2	0.8
90°-100°	300.9	3.5
100°-110°	791.1	9.2
110°-120°	820.2	9.5
120°-130°	657.9	7.6
130°-140°	516.2	6.0
140°-150°	396.2	4.6
150°-160°	285.4	3.3
160°-170°	174.6	2.0
170°-180°	59.0	0.7
0°-30°	1323.3	15.3
0°-40°	2165.9	25.1
0°-60°	3751.0	43.5
0°-90°	4621.8	53.6
90°-120°	1912.2	22.2
90°-150°	3482.6	40.4
90°-180°	4002.0	46.4
0°-180°	8623.3	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°	4	16	4	16	4	5
95°	40	182	40	182	40	44
105°	142	1239	142	1239	142	151
115°	253	1595	253	1595	253	250
125°	352	1270	352	1270	352	313
135°	420	986	420	986	420	325
145°	487	800	487	800	487	305
155°	550	688	550	688	550	253
165°	594	641	594	641	594	168
175°	617	621	617	621	617	59
180°	617	617	617	617	617	



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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°	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0	15.7	15.7
92.5°	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6	78.7	75.6
95°	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9	267.2	257.8
97.5°	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7	616.8	598.8
100°	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3	866.2	844.7
102.5°	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8	1079.2	1060.7
105°	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7	1327.8	1317.9
107.5°	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3	1457.0	1459.4
110°	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6	1490.1	1500.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9	1469.0	1484.8
115°	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1	1397.4	1419.3
117.5°	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7	1298.4	1322.7
120°	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1	1231.7	1255.4
122.5°	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4	1164.9	1188.2
125°	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2	1076.7	1098.2
127.5°	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1	1005.9	1024.0
130°	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2	961.1	977.9
132.5°	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7	923.0	938.0
135°	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1	869.1	882.1
137.5°	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4	829.4	839.9
140°	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1	797.5	807.4
142.5°	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2	775.1	783.7
145°	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5	741.5	748.0
147.5°	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8	713.4	718.8
150°	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9	697.2	701.5
152.5°	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4	684.4	687.6
155°	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2	669.0	671.2
157.5°	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3	655.8	657.3
160°	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9	649.2	650.1
162.5°	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8	642.9	643.7
165°	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5	633.5	634.4
167.5°	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0	629.3	629.7
170°	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0	629.3	629.3
172.5°	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8	626.0	625.7
175°	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8	621.4	621.4
177.5°	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5	620.6	620.2
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



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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°	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1	18.2	11.6
92.5°	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7	112.4	80.0
95°	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6	276.6	155.8
97.5°	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2	372.6	171.1
100°	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7	407.6	184.0
102.5°	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9	423.6	196.8
105°	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2	435.5	215.8
107.5°	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7	437.6	244.0
110°	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0	434.3	259.8



TEST NUMBER: P935382

CATALOG NUMBER: SQ4-FA-100U-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°	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9	434.5	278.8
115°	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2	438.4	307.4
117.5°	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2	446.6	335.2
120°	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1	453.2	351.3
122.5°	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9	462.7	370.4
125°	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3	475.6	394.8
127.5°	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8	488.4	418.4
130°	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8	497.8	434.2
132.5°	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3	505.4	447.0
135°	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8	513.7	461.9
137.5°	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3	526.1	481.0
140°	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9	533.8	493.8
142.5°	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0	540.1	503.4
145°	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1	548.4	517.8
147.5°	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1	560.5	536.0
150°	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3	566.9	545.6
152.5°	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6	571.0	551.8
155°	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7	580.2	565.5
157.5°	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7	589.2	579.2
160°	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1	593.4	585.3
162.5°	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6	597.8	592.0
165°	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7	604.2	601.5
167.5°	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0	609.2	607.0
170°	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4	613.2	613.1
172.5°	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3	616.0	617.3
177.5°	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0	616.3	617.3
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935382

CATALOG NUMBER: SQ4-FA-100U-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°	10.8	7.5	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0
92.5°	72.9	44.7	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6
95°	142.9	91.3	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9
97.5°	159.8	114.2	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7
100°	173.6	132.4	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3
102.5°	187.1	148.7	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8
105°	207.7	175.1	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7
107.5°	236.5	206.1	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3
110°	252.9	225.5	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6



TEST NUMBER: P935382

CATALOG NUMBER: SQ4-FA-100U-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°	272.2	246.1	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9
115°	301.3	277.2	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1
117.5°	329.7	307.8	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7
120°	346.1	325.5	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1
122.5°	365.2	344.4	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4
125°	390.0	371.1	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2
127.5°	413.6	394.4	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1
130°	429.0	408.4	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2
132.5°	441.8	421.2	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7
135°	457.3	438.4	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1
137.5°	476.3	457.8	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4
140°	489.5	472.4	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1
142.5°	499.4	483.6	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2
145°	514.3	500.6	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5
147.5°	532.7	519.3	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8
150°	542.5	530.4	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9
152.5°	549.5	540.2	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4
155°	563.8	557.0	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2
157.5°	577.5	570.9	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3
160°	584.1	579.0	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9
162.5°	591.0	587.1	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8
165°	600.6	597.1	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5
167.5°	606.6	604.9	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0
170°	612.7	611.0	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0
172.5°	613.4	613.1	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8
175°	617.3	617.3	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8
177.5°	617.3	617.3	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935382

CATALOG NUMBER: SQ4-FA-100U-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°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1
92.5°	78.7	75.6	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7
95°	267.2	257.8	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6
97.5°	616.8	598.8	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2
100°	866.2	844.7	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7
102.5°	1079.2	1060.7	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9
105°	1327.8	1317.9	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2
107.5°	1457.0	1459.4	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7
110°	1490.1	1500.5	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1469.0	1484.8	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9
115°	1397.4	1419.3	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2
117.5°	1298.4	1322.7	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2
120°	1231.7	1255.4	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1
122.5°	1164.9	1188.2	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9
125°	1076.7	1098.2	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3
127.5°	1005.9	1024.0	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8
130°	961.1	977.9	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8
132.5°	923.0	938.0	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3
135°	869.1	882.1	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8
137.5°	829.4	839.9	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3
140°	797.5	807.4	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9
142.5°	775.1	783.7	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0
145°	741.5	748.0	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1
147.5°	713.4	718.8	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1
150°	697.2	701.5	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3
152.5°	684.4	687.6	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6
155°	669.0	671.2	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7
157.5°	655.8	657.3	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7
160°	649.2	650.1	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1
162.5°	642.9	643.7	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6
165°	633.5	634.4	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7
167.5°	629.3	629.7	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0
170°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4
172.5°	626.0	625.7	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3
177.5°	620.6	620.2	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



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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°	18.2	11.6	10.8	7.5	4.2
92.5°	112.4	80.0	72.9	44.7	16.5
95°	276.6	155.8	142.9	91.3	39.7
97.5°	372.6	171.1	159.8	114.2	68.7
100°	407.6	184.0	173.6	132.4	91.1
102.5°	423.6	196.8	187.1	148.7	110.2
105°	435.5	215.8	207.7	175.1	142.5
107.5°	437.6	244.0	236.5	206.1	175.7
110°	434.3	259.8	252.9	225.5	198.0



TEST NUMBER: P935382

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	434.5	278.8	272.2	246.1	220.0
115°	438.4	307.4	301.3	277.2	253.1
117.5°	446.6	335.2	329.7	307.8	285.9
120°	453.2	351.3	346.1	325.5	304.9
122.5°	462.7	370.4	365.2	344.4	323.6
125°	475.6	394.8	390.0	371.1	352.2
127.5°	488.4	418.4	413.6	394.4	375.3
130°	497.8	434.2	429.0	408.4	387.7
132.5°	505.4	447.0	441.8	421.2	400.6
135°	513.7	461.9	457.3	438.4	419.7
137.5°	526.1	481.0	476.3	457.8	439.1
140°	533.8	493.8	489.5	472.4	455.3
142.5°	540.1	503.4	499.4	483.6	467.7
145°	548.4	517.8	514.3	500.6	486.7
147.5°	560.5	536.0	532.7	519.3	505.9
150°	566.9	545.6	542.5	530.4	518.2
152.5°	571.0	551.8	549.5	540.2	531.1
155°	580.2	565.5	563.8	557.0	550.2
157.5°	589.2	579.2	577.5	570.9	564.2
160°	593.4	585.3	584.1	579.0	573.8
162.5°	597.8	592.0	591.0	587.1	583.3
165°	604.2	601.5	600.6	597.1	593.6
167.5°	609.2	607.0	606.6	604.9	603.2
170°	613.2	613.1	612.7	611.0	609.5
172.5°	613.5	613.5	613.4	613.1	612.7
175°	616.0	617.3	617.3	617.3	617.3
177.5°	616.3	617.3	617.3	617.3	617.3
180°	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935382
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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	14.87	15.76	15.79	16.70	17.92	17.66	18.56	18.59	19.50	20.72
	3H	15.35	16.15	16.28	17.10	18.34	19.00	19.80	19.94	20.76	22.00
	4H	15.54	16.30	16.49	17.26	18.51	19.44	20.20	20.39	21.16	22.41
	6H	15.66	16.36	16.62	17.32	18.59	19.72	20.42	20.68	21.38	22.65
	8H	15.66	16.33	16.63	17.31	18.57	19.79	20.46	20.76	21.44	22.70
	12H	15.63	16.27	16.61	17.24	18.53	19.83	20.46	20.80	21.43	22.72
4H	2H	15.90	16.65	16.85	17.61	18.86	18.08	18.84	19.04	19.79	21.05
	3H	16.93	17.56	17.89	18.54	19.81	19.58	20.21	20.55	21.20	22.46
	4H	17.20	17.78	18.18	18.76	20.05	20.10	20.68	21.08	21.66	22.95
	6H	17.33	17.83	18.32	18.83	20.12	20.46	20.96	21.45	21.96	23.25
	8H	17.34	17.80	18.33	18.80	20.10	20.56	21.03	21.55	22.03	23.33
	12H	17.31	17.72	18.32	18.74	20.05	20.62	21.04	21.63	22.05	23.36
8H	4H	17.65	18.12	18.65	19.12	20.42	20.23	20.69	21.22	21.69	22.99
	6H	17.92	18.30	18.93	19.34	20.64	20.66	21.04	21.68	22.08	23.38
	8H	17.96	18.30	18.98	19.33	20.65	20.81	21.14	21.83	22.17	23.49
	12H	17.95	18.24	18.97	19.26	20.63	20.90	21.20	21.93	22.22	23.58
12H	4H	17.66	18.08	18.67	19.09	20.40	20.20	20.61	21.21	21.63	22.94
	6H	17.98	18.32	19.00	19.34	20.66	20.66	21.00	21.68	22.02	23.34
	8H	18.04	18.34	19.07	19.36	20.73	20.81	21.11	21.84	22.13	23.50