

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: P934437

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

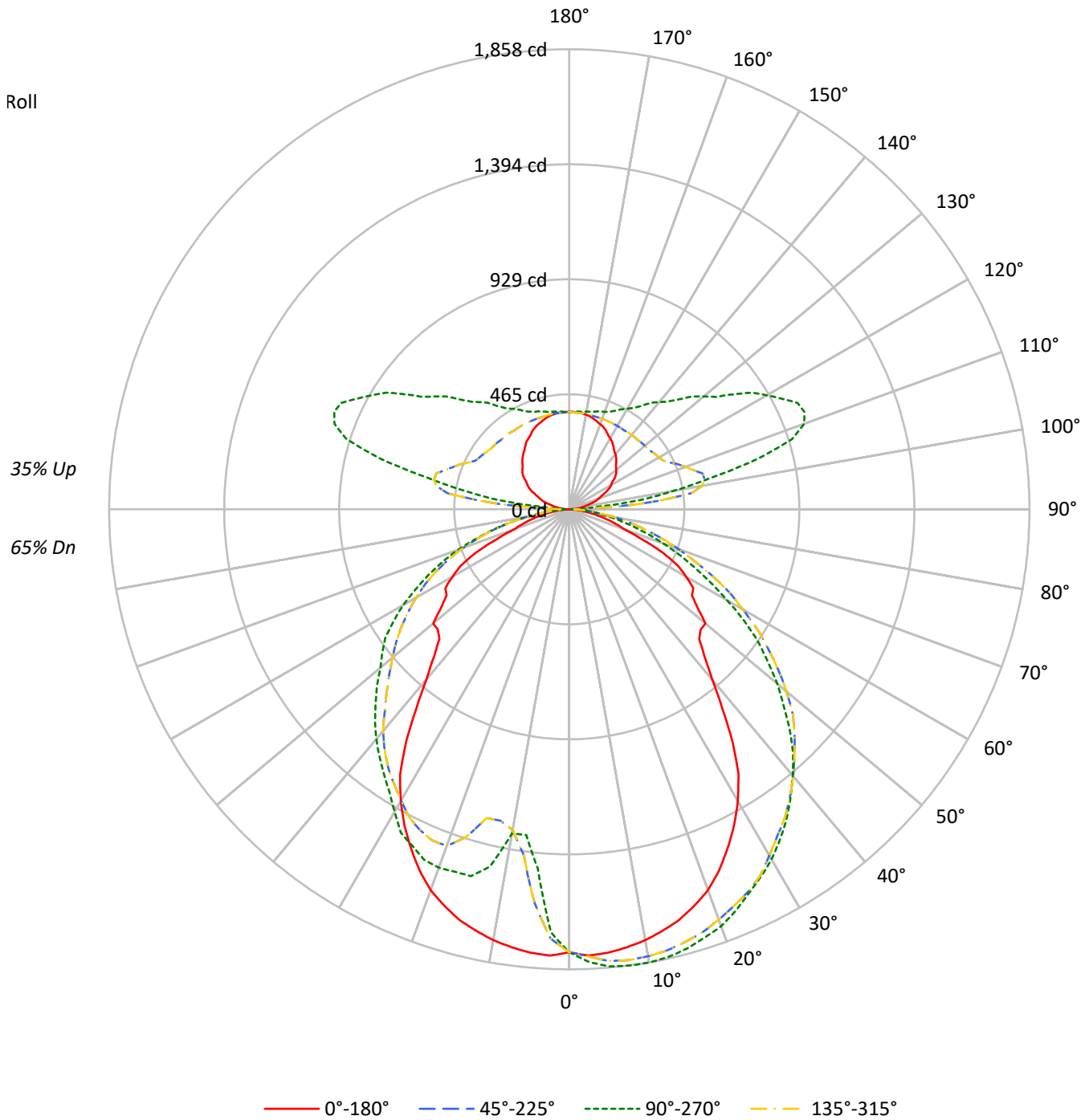
Test Method: LM-79-2019  
Report Number: P934437  
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7190.9 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 67.8  
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





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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11068	11068	11068	11068
5°	11146	11172	11146	8785
10°	11068	11005	11068	7868
15°	10943	10767	10943	8990
20°	10710	10484	10710	9009
25°	10237	10073	10237	8818
30°	9628	9730	9628	8399
35°	8579	9297	8579	7938
40°	7145	8789	7145	7590
45°	6380	8192	6380	7190
50°	6772	7481	6772	6788
55°	6366	6715	6366	6557
60°	6554	5703	6554	6005
65°	5933	4714	5933	5269
70°	4097	3757	4097	4417
75°	3580	2777	3580	3326
80°	2864	1837	2864	2000
85°	1616	972	1616	827

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9784 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	2.2
10°-20°	458.5	6.4
20°-30°	708.8	9.9
30°-40°	846.2	11.8
40°-50°	851.1	11.8
50°-60°	740.6	10.3
60°-70°	525.1	7.3
70°-80°	277.8	3.9
80°-90°	70.7	1.0
90°-100°	191.8	2.7
100°-110°	504.2	7.0
110°-120°	522.8	7.3
120°-130°	419.4	5.8
130°-140°	329.1	4.6
140°-150°	252.6	3.5
150°-160°	181.9	2.5
160°-170°	111.3	1.5
170°-180°	37.6	0.5
0°-30°	1328.8	18.5
0°-40°	2175.0	30.2
0°-60°	3766.7	52.4
0°-90°	4640.3	64.5
90°-120°	1218.9	16.9
90°-150°	2219.9	30.9
90°-180°	2551.0	35.5
0°-180°	7190.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1789	1789	1789	1789	1789	
5°	1798	1853	1798	1457	1798	171
15°	1716	1836	1716	1534	1716	483
25°	1512	1713	1512	1500	1512	694
35°	1149	1528	1149	1305	1149	711
45°	741	1259	741	1105	741	594
55°	604	929	604	907	604	555
65°	420	560	420	626	420	401
75°	159	266	159	318	159	167
85°	27	68	27	58	27	37
90°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	790	91	790	91	96
115°	161	1017	161	1017	161	159
125°	224	810	224	810	224	199
135°	268	628	268	628	268	207
145°	310	510	310	510	310	194
155°	351	439	351	439	351	161
165°	378	409	378	409	378	107
175°	394	396	394	396	394	37
180°	394	394	394	394	394	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1
2.5°	1804.3	1804.3	1814.5	1817.8	1817.8	1812.8	1807.7	1812.8	1828.0	1833.1	1831.4
5°	1797.5	1811.1	1829.7	1833.1	1836.5	1834.8	1831.4	1834.8	1851.7	1855.1	1856.8
7.5°	1784.0	1809.4	1833.1	1838.2	1843.2	1838.2	1836.5	1839.9	1856.8	1860.2	1860.2
10°	1767.1	1802.6	1829.7	1833.1	1838.2	1833.1	1833.1	1839.9	1856.8	1860.2	1861.8
12.5°	1743.4	1792.5	1817.8	1821.3	1828.0	1826.3	1824.6	1831.4	1848.3	1851.7	1851.7
15°	1716.3	1773.9	1797.5	1800.9	1812.8	1809.4	1809.4	1816.1	1834.8	1839.9	1838.2
17.5°	1679.0	1750.1	1777.3	1782.3	1790.8	1789.1	1790.8	1797.5	1814.5	1817.8	1819.5
20°	1636.8	1718.0	1750.1	1755.2	1763.7	1763.7	1763.7	1772.1	1789.1	1795.9	1795.9
22.5°	1579.2	1684.2	1718.0	1721.4	1731.6	1731.6	1734.9	1746.8	1762.0	1763.7	1763.7
25°	1511.5	1646.9	1675.7	1685.8	1696.0	1701.1	1706.1	1713.0	1718.0	1716.3	1718.0
27.5°	1440.4	1599.5	1636.8	1643.5	1657.1	1662.1	1668.9	1670.6	1672.3	1677.3	1674.0
30°	1360.9	1533.5	1589.4	1596.1	1618.1	1621.5	1614.7	1618.1	1626.6	1630.0	1633.3
32.5°	1271.1	1435.4	1540.2	1555.5	1575.8	1565.6	1564.0	1569.0	1582.6	1582.6	1585.9
35°	1149.3	1359.2	1494.6	1508.1	1523.3	1511.5	1518.3	1519.9	1528.4	1533.5	1531.8
37.5°	1015.6	1293.1	1447.1	1457.3	1469.2	1454.0	1464.1	1469.2	1475.9	1472.6	1472.6
40°	897.1	1189.9	1391.3	1398.1	1408.3	1396.4	1406.6	1409.9	1413.3	1409.9	1408.3
42.5°	809.0	1076.5	1332.1	1340.6	1333.8	1342.3	1345.6	1352.4	1347.3	1340.6	1340.6
45°	741.4	1046.1	1267.8	1277.9	1267.8	1281.3	1286.4	1286.4	1271.1	1267.8	1266.1
47.5°	719.3	985.1	1203.5	1203.5	1198.3	1215.3	1223.7	1211.9	1196.6	1191.6	1191.6
50°	717.6	917.4	1115.4	1108.7	1132.3	1152.6	1144.2	1132.3	1120.5	1101.9	1101.9
52.5°	651.6	834.5	1002.0	1027.4	1064.7	1076.5	1063.0	1051.1	1030.8	1022.3	1015.6
55°	604.3	748.1	898.8	949.5	988.5	1003.7	978.3	966.4	936.0	930.9	927.6
57.5°	594.1	622.9	804.0	868.3	915.7	914.0	898.8	876.8	851.4	846.3	844.6
60°	545.0	450.2	702.4	778.6	827.7	822.6	809.0	788.8	765.0	761.7	758.3
62.5°	494.2	326.7	587.3	673.7	743.1	741.4	729.5	699.0	682.1	673.7	666.9
65°	419.8	274.2	418.1	560.2	660.2	663.5	638.1	616.1	597.5	587.3	585.7
67.5°	319.9	223.4	282.6	467.1	580.6	577.2	545.0	534.9	511.2	506.1	495.9
70°	236.9	149.0	196.4	379.1	502.7	494.2	468.8	457.0	435.0	423.1	416.4
72.5°	196.4	120.2	143.8	294.5	423.1	413.0	391.0	377.4	358.8	348.7	341.9
75°	159.1	126.9	110.0	218.3	343.6	336.9	316.5	303.0	287.8	274.2	275.9
77.5°	116.8	118.5	88.0	160.8	272.5	262.4	250.5	233.6	226.8	213.3	213.3
80°	88.0	93.1	66.0	110.0	196.4	196.4	186.2	174.3	162.5	155.7	155.7
82.5°	59.3	59.3	49.1	69.4	133.8	128.6	121.9	118.5	111.7	108.3	108.3
85°	27.1	33.8	30.5	42.3	72.8	76.2	76.2	72.8	71.1	67.7	69.4
87.5°	8.5	15.2	18.6	23.7	37.2	38.9	40.7	40.7	40.7	42.3	42.3
90°	2.6	4.8	6.9	7.4	11.6	17.3	20.1	17.9	13.3	10.0	10.0
92.5°	10.6	28.5	46.5	51.0	71.7	99.2	113.0	99.0	71.1	50.1	48.2
95°	25.4	58.2	91.1	99.2	176.3	279.0	330.4	294.8	223.7	170.3	164.2
97.5°	43.8	72.9	101.8	109.1	237.5	408.8	494.4	471.9	426.9	393.2	381.6
100°	58.1	84.4	110.7	117.3	259.7	449.8	544.8	546.4	549.7	552.2	538.5
102.5°	70.2	94.8	119.3	125.5	270.0	462.7	559.0	587.6	645.0	687.9	676.2
105°	90.9	111.6	132.4	137.6	277.5	464.1	557.4	621.6	750.0	846.4	840.0
107.5°	112.0	131.4	150.7	155.5	279.0	443.5	525.7	615.2	794.3	928.7	930.2
110°	126.2	143.7	161.2	165.5	276.8	425.2	499.3	599.4	799.7	949.9	956.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.2	156.9	173.6	177.7	276.9	409.2	475.3	577.8	782.7	936.4	946.5
115°	161.3	176.7	192.1	195.9	279.5	390.8	446.5	545.3	742.7	890.7	904.7
117.5°	182.2	196.2	210.1	213.6	284.7	379.4	426.7	515.8	694.0	827.6	843.1
120°	194.3	207.5	220.6	224.0	288.9	375.5	418.8	500.2	663.0	785.0	800.1
122.5°	206.3	219.5	232.7	236.1	294.9	373.4	412.7	486.0	632.7	742.6	757.4
125°	224.5	236.5	248.6	251.6	303.1	371.8	406.1	468.4	592.9	686.3	700.0
127.5°	239.2	251.5	263.7	266.7	311.3	370.9	400.6	454.1	560.9	641.1	652.6
130°	247.2	260.3	273.5	276.7	317.3	371.4	398.5	446.0	541.3	612.7	623.3
132.5°	255.4	268.5	281.7	284.9	322.2	371.8	396.7	439.3	524.4	588.3	597.9
135°	267.5	279.5	291.4	294.4	327.5	371.5	393.5	429.2	500.5	554.0	562.3
137.5°	279.9	291.8	303.6	306.5	335.3	373.7	392.9	423.0	483.4	528.6	535.4
140°	290.2	301.2	312.0	314.7	340.2	374.1	391.1	417.2	469.3	508.3	514.6
142.5°	298.1	308.2	318.2	320.8	344.2	375.5	391.1	414.0	459.7	494.0	499.5
145°	310.3	319.1	327.9	330.1	349.6	375.5	388.5	407.2	444.6	472.7	476.8
147.5°	322.4	331.0	339.6	341.7	357.3	378.0	388.5	403.1	432.6	454.7	458.2
150°	330.4	338.1	345.8	347.8	361.4	379.4	388.5	400.9	425.8	444.4	447.1
152.5°	338.5	344.4	350.3	351.7	363.9	380.3	388.5	399.0	420.3	436.2	438.3
155°	350.7	355.1	359.3	360.4	369.8	382.2	388.5	396.9	413.8	426.5	427.8
157.5°	359.7	363.9	368.1	369.2	375.6	384.2	388.5	395.0	408.2	418.0	418.9
160°	365.7	369.0	372.2	373.1	378.2	385.0	388.5	394.1	405.4	413.8	414.3
162.5°	371.8	374.3	376.8	377.4	381.0	386.0	388.5	393.2	402.7	409.8	410.3
165°	378.4	380.6	382.8	383.4	385.1	387.3	388.5	391.9	398.6	403.7	404.3
167.5°	384.4	385.5	386.6	386.8	388.3	390.2	391.1	393.3	397.8	401.1	401.4
170°	388.5	389.5	390.6	390.8	390.9	391.0	391.1	393.3	397.8	401.1	401.1
172.5°	390.6	390.8	391.0	391.1	391.1	391.1	391.1	392.8	396.3	399.0	398.8
175°	393.5	393.5	393.5	393.5	392.7	391.6	391.1	392.2	394.4	396.1	396.1
177.5°	393.5	393.5	393.5	393.5	392.9	392.0	391.6	392.5	394.3	395.5	395.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1
2.5°	1834.8	1829.7	1834.8	1831.4	1833.1	1828.0	1812.8	1807.7	1812.8	1817.8	1817.8
5°	1856.8	1853.4	1856.8	1856.8	1855.1	1851.7	1834.8	1831.4	1834.8	1836.5	1833.1
7.5°	1863.5	1858.5	1863.5	1860.2	1860.2	1856.8	1839.9	1836.5	1838.2	1843.2	1838.2
10°	1863.5	1858.5	1863.5	1861.8	1860.2	1856.8	1839.9	1833.1	1833.1	1838.2	1833.1
12.5°	1855.1	1851.7	1855.1	1851.7	1851.7	1848.3	1831.4	1824.6	1826.3	1828.0	1821.3
15°	1841.6	1836.5	1841.6	1838.2	1839.9	1834.8	1816.1	1809.4	1809.4	1812.8	1800.9
17.5°	1821.3	1814.5	1821.3	1819.5	1817.8	1814.5	1797.5	1790.8	1789.1	1790.8	1782.3
20°	1797.5	1792.5	1797.5	1795.9	1795.9	1789.1	1772.1	1763.7	1763.7	1763.7	1755.2
22.5°	1760.3	1755.2	1760.3	1763.7	1763.7	1762.0	1746.8	1734.9	1731.6	1731.6	1721.4
25°	1718.0	1713.0	1718.0	1718.0	1716.3	1718.0	1713.0	1706.1	1701.1	1696.0	1685.8
27.5°	1677.3	1674.0	1677.3	1674.0	1677.3	1672.3	1670.6	1668.9	1662.1	1657.1	1643.5
30°	1636.8	1633.3	1636.8	1633.3	1630.0	1626.6	1618.1	1614.7	1621.5	1618.1	1596.1
32.5°	1585.9	1582.6	1585.9	1585.9	1582.6	1582.6	1569.0	1564.0	1565.6	1575.8	1555.5
35°	1533.5	1528.4	1533.5	1531.8	1533.5	1528.4	1519.9	1518.3	1511.5	1523.3	1508.1
37.5°	1472.6	1467.5	1472.6	1472.6	1472.6	1475.9	1469.2	1464.1	1454.0	1469.2	1457.3
40°	1409.9	1403.2	1409.9	1408.3	1409.9	1413.3	1409.9	1406.6	1396.4	1408.3	1398.1
42.5°	1338.8	1337.1	1338.8	1340.6	1340.6	1347.3	1352.4	1345.6	1342.3	1333.8	1340.6
45°	1262.7	1259.3	1262.7	1266.1	1267.8	1271.1	1286.4	1286.4	1281.3	1267.8	1277.9
47.5°	1181.4	1173.0	1181.4	1191.6	1191.6	1196.6	1211.9	1223.7	1215.3	1198.3	1203.5
50°	1095.1	1096.8	1095.1	1101.9	1101.9	1120.5	1132.3	1144.2	1152.6	1132.3	1108.7
52.5°	1010.5	1008.8	1010.5	1015.6	1022.3	1030.8	1051.1	1063.0	1076.5	1064.7	1027.4
55°	925.9	929.2	925.9	927.6	930.9	936.0	966.4	978.3	1003.7	988.5	949.5
57.5°	841.2	836.1	841.2	844.6	846.3	851.4	876.8	898.8	914.0	915.7	868.3
60°	743.1	736.3	743.1	758.3	761.7	765.0	788.8	809.0	822.6	827.7	778.6
62.5°	656.7	644.9	656.7	666.9	673.7	682.1	699.0	729.5	741.4	743.1	673.7
65°	565.3	560.2	565.3	585.7	587.3	597.5	616.1	638.1	663.5	660.2	560.2
67.5°	482.4	482.4	482.4	495.9	506.1	511.2	534.9	545.0	577.2	580.6	467.1
70°	406.2	404.5	406.2	416.4	423.1	435.0	457.0	468.8	494.2	502.7	379.1
72.5°	333.5	331.7	333.5	341.9	348.7	358.8	377.4	391.0	413.0	423.1	294.5
75°	269.1	265.7	269.1	275.9	274.2	287.8	303.0	316.5	336.9	343.6	218.3
77.5°	206.5	206.5	206.5	213.3	213.3	226.8	233.6	250.5	262.4	272.5	160.8
80°	154.0	152.4	154.0	155.7	155.7	162.5	174.3	186.2	196.4	196.4	110.0
82.5°	108.3	105.0	108.3	108.3	108.3	111.7	118.5	121.9	128.6	133.8	69.4
85°	67.7	67.7	67.7	69.4	67.7	71.1	72.8	76.2	76.2	72.8	42.3
87.5°	44.0	42.3	44.0	42.3	42.3	40.7	40.7	40.7	38.9	37.2	23.7
90°	10.0	10.0	10.0	10.0	10.0	13.3	17.9	20.1	17.3	11.6	7.4
92.5°	40.1	32.2	40.1	48.2	50.1	71.1	99.0	113.0	99.2	71.7	51.0
95°	140.1	115.9	140.1	164.2	170.3	223.7	294.8	330.4	279.0	176.3	99.2
97.5°	335.7	289.7	335.7	381.6	393.2	426.9	471.9	494.4	408.8	237.5	109.1
100°	483.7	428.9	483.7	538.5	552.2	549.7	546.4	544.8	449.8	259.7	117.3
102.5°	629.2	582.3	629.2	676.2	687.9	645.0	587.6	559.0	462.7	270.0	125.5
105°	814.8	789.6	814.8	840.0	846.4	750.0	621.6	557.4	464.1	277.5	137.6
107.5°	936.3	942.4	936.3	930.2	928.7	794.3	615.2	525.7	443.5	279.0	155.5
110°	982.7	1009.0	982.7	956.5	949.9	799.7	599.4	499.3	425.2	276.8	165.5





TEST NUMBER: P934437

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	986.9	1027.2	986.9	946.5	936.4	782.7	577.8	475.3	409.2	276.9	177.7
115°	960.6	1016.7	960.6	904.7	890.7	742.7	545.3	446.5	390.8	279.5	195.9
117.5°	905.2	967.3	905.2	843.1	827.6	694.0	515.8	426.7	379.4	284.7	213.6
120°	860.4	920.8	860.4	800.1	785.0	663.0	500.2	418.8	375.5	288.9	224.0
122.5°	817.0	876.4	817.0	757.4	742.6	632.7	486.0	412.7	373.4	294.9	236.1
125°	754.8	809.6	754.8	700.0	686.3	592.9	468.4	406.1	371.8	303.1	251.6
127.5°	698.9	745.2	698.9	652.6	641.1	560.9	454.1	400.6	370.9	311.3	266.7
130°	666.0	708.8	666.0	623.3	612.7	541.3	446.0	398.5	371.4	317.3	276.7
132.5°	636.2	674.4	636.2	597.9	588.3	524.4	439.3	396.7	371.8	322.2	284.9
135°	595.2	628.2	595.2	562.3	554.0	500.5	429.2	393.5	371.5	327.5	294.4
137.5°	562.4	589.4	562.4	535.4	528.6	483.4	423.0	392.9	373.7	335.3	306.5
140°	539.8	565.1	539.8	514.6	508.3	469.3	417.2	391.1	374.1	340.2	314.7
142.5°	521.2	542.9	521.2	499.5	494.0	459.7	414.0	391.1	375.5	344.2	320.8
145°	493.3	509.7	493.3	476.8	472.7	444.6	407.2	388.5	375.5	349.6	330.1
147.5°	471.7	485.3	471.7	458.2	454.7	432.6	403.1	388.5	378.0	357.3	341.7
150°	458.2	469.3	458.2	447.1	444.4	425.8	400.9	388.5	379.4	361.4	347.8
152.5°	446.6	455.0	446.6	438.3	436.2	420.3	399.0	388.5	380.3	363.9	351.7
155°	433.4	438.9	433.4	427.8	426.5	413.8	396.9	388.5	382.2	369.8	360.4
157.5°	422.9	426.7	422.9	418.9	418.0	408.2	395.0	388.5	384.2	375.6	369.2
160°	416.6	418.8	416.6	414.3	413.8	405.4	394.1	388.5	385.0	378.2	373.1
162.5°	412.5	414.6	412.5	410.3	409.8	402.7	393.2	388.5	386.0	381.0	377.4
165°	406.6	408.8	406.6	404.3	403.7	398.6	391.9	388.5	387.3	385.1	383.4
167.5°	402.3	403.2	402.3	401.4	401.1	397.8	393.3	391.1	390.2	388.3	386.8
170°	401.1	401.1	401.1	401.1	401.1	397.8	393.3	391.1	391.0	390.9	390.8
172.5°	397.9	397.2	397.9	398.8	399.0	396.3	392.8	391.1	391.1	391.1	391.1
175°	396.1	396.1	396.1	396.1	396.1	394.4	392.2	391.1	391.6	392.7	393.5
177.5°	394.4	393.5	394.4	395.3	395.5	394.3	392.5	391.6	392.0	392.9	393.5
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934437

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1
2.5°	1814.5	1804.3	1804.3	1787.3	1780.6	1775.6	1767.1	1741.7	1734.9	1728.2	1738.3
5°	1829.7	1811.1	1797.5	1767.1	1741.7	1731.6	1699.4	1638.5	1597.8	1567.3	1550.4
7.5°	1833.1	1809.4	1784.0	1736.6	1675.7	1648.6	1550.4	1438.7	1408.3	1381.1	1364.2
10°	1829.7	1802.6	1767.1	1696.0	1552.1	1504.7	1406.6	1333.8	1315.2	1310.1	1315.2
12.5°	1817.8	1792.5	1743.4	1624.9	1423.5	1391.3	1333.8	1291.4	1288.1	1296.6	1342.3
15°	1797.5	1773.9	1716.3	1530.1	1352.4	1328.7	1288.1	1272.8	1291.4	1350.7	1487.8
17.5°	1777.3	1750.1	1679.0	1437.0	1298.2	1281.3	1252.5	1283.0	1388.0	1467.5	1513.2
20°	1750.1	1718.0	1636.8	1369.3	1259.3	1244.0	1230.5	1367.6	1447.1	1475.9	1501.3
22.5°	1718.0	1684.2	1579.2	1321.9	1218.7	1206.8	1215.3	1415.0	1447.1	1467.5	1489.5
25°	1675.7	1646.9	1511.5	1284.7	1186.6	1173.0	1205.2	1409.9	1428.5	1433.7	1477.6
27.5°	1636.8	1599.5	1440.4	1250.9	1147.6	1142.5	1213.6	1388.0	1401.5	1406.6	1454.0
30°	1589.4	1533.5	1360.9	1215.3	1106.9	1105.2	1215.3	1360.9	1357.5	1371.0	1418.4
32.5°	1540.2	1435.4	1271.1	1171.3	1068.0	1066.4	1203.5	1320.2	1316.8	1335.4	1371.0
35°	1494.6	1359.2	1149.3	1120.5	1019.0	1020.6	1174.7	1272.8	1274.5	1291.4	1313.5
37.5°	1447.1	1293.1	1015.6	1064.7	971.6	971.6	1135.7	1228.8	1225.4	1230.5	1260.9
40°	1391.3	1189.9	897.1	991.9	927.6	922.5	1088.3	1181.4	1169.6	1167.9	1210.2
42.5°	1332.1	1076.5	809.0	895.4	876.8	870.0	1030.8	1123.9	1101.9	1106.9	1161.1
45°	1267.8	1046.1	741.4	756.6	824.3	819.2	968.2	1057.8	1042.6	1056.2	1112.1
47.5°	1203.5	985.1	719.3	628.0	768.5	766.8	898.8	993.5	985.1	998.6	1057.8
50°	1115.4	917.4	717.6	538.3	705.9	712.6	815.9	930.9	930.9	942.8	1005.4
52.5°	1002.0	834.5	651.6	487.5	633.0	653.3	743.1	876.8	880.2	892.0	947.8
55°	898.8	748.1	604.3	448.5	546.7	590.7	671.9	820.9	827.7	839.5	890.3
57.5°	804.0	622.9	594.1	402.8	467.1	509.5	609.3	766.8	770.2	780.3	829.4
60°	702.4	450.2	545.0	353.8	397.8	429.9	551.8	702.4	714.3	721.1	763.3
62.5°	587.3	326.7	494.2	319.9	363.9	370.7	504.4	641.5	656.7	661.8	687.2
65°	418.1	274.2	419.8	291.1	328.3	330.0	453.6	578.8	592.4	600.9	619.5
67.5°	282.6	223.4	319.9	264.0	301.3	303.0	404.5	506.1	524.7	531.4	543.3
70°	196.4	149.0	236.9	235.3	270.8	274.2	352.1	440.0	457.0	462.1	468.8
72.5°	143.8	120.2	196.4	211.6	238.6	242.1	297.9	365.6	382.6	387.6	391.0
75°	110.0	126.9	159.1	184.5	203.1	204.8	243.8	297.9	309.7	313.1	314.8
77.5°	88.0	118.5	116.8	149.0	165.9	162.5	191.2	230.2	240.4	240.4	240.4
80°	66.0	93.1	88.0	106.6	121.9	118.5	137.1	164.2	167.6	170.9	169.3
82.5°	49.1	59.3	59.3	67.7	81.2	77.9	91.4	106.6	106.6	106.6	110.0
85°	30.5	33.8	27.1	35.5	45.7	44.0	50.8	57.6	59.3	59.3	55.9
87.5°	18.6	15.2	8.5	13.6	20.3	20.3	23.7	25.4	23.7	23.7	23.7
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.6	17.3	20.1	17.9	13.3
92.5°	46.5	28.5	10.6	28.5	46.5	51.0	71.7	99.2	113.0	99.0	71.1
95°	91.1	58.2	25.4	58.2	91.1	99.2	176.3	279.0	330.4	294.8	223.7
97.5°	101.8	72.9	43.8	72.9	101.8	109.1	237.5	408.8	494.4	471.9	426.9
100°	110.7	84.4	58.1	84.4	110.7	117.3	259.7	449.8	544.8	546.4	549.7
102.5°	119.3	94.8	70.2	94.8	119.3	125.5	270.0	462.7	559.0	587.6	645.0
105°	132.4	111.6	90.9	111.6	132.4	137.6	277.5	464.1	557.4	621.6	750.0
107.5°	150.7	131.4	112.0	131.4	150.7	155.5	279.0	443.5	525.7	615.2	794.3
110°	161.2	143.7	126.2	143.7	161.2	165.5	276.8	425.2	499.3	599.4	799.7



TEST NUMBER: P934437

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.6	156.9	140.2	156.9	173.6	177.7	276.9	409.2	475.3	577.8	782.7
115°	192.1	176.7	161.3	176.7	192.1	195.9	279.5	390.8	446.5	545.3	742.7
117.5°	210.1	196.2	182.2	196.2	210.1	213.6	284.7	379.4	426.7	515.8	694.0
120°	220.6	207.5	194.3	207.5	220.6	224.0	288.9	375.5	418.8	500.2	663.0
122.5°	232.7	219.5	206.3	219.5	232.7	236.1	294.9	373.4	412.7	486.0	632.7
125°	248.6	236.5	224.5	236.5	248.6	251.6	303.1	371.8	406.1	468.4	592.9
127.5°	263.7	251.5	239.2	251.5	263.7	266.7	311.3	370.9	400.6	454.1	560.9
130°	273.5	260.3	247.2	260.3	273.5	276.7	317.3	371.4	398.5	446.0	541.3
132.5°	281.7	268.5	255.4	268.5	281.7	284.9	322.2	371.8	396.7	439.3	524.4
135°	291.4	279.5	267.5	279.5	291.4	294.4	327.5	371.5	393.5	429.2	500.5
137.5°	303.6	291.8	279.9	291.8	303.6	306.5	335.3	373.7	392.9	423.0	483.4
140°	312.0	301.2	290.2	301.2	312.0	314.7	340.2	374.1	391.1	417.2	469.3
142.5°	318.2	308.2	298.1	308.2	318.2	320.8	344.2	375.5	391.1	414.0	459.7
145°	327.9	319.1	310.3	319.1	327.9	330.1	349.6	375.5	388.5	407.2	444.6
147.5°	339.6	331.0	322.4	331.0	339.6	341.7	357.3	378.0	388.5	403.1	432.6
150°	345.8	338.1	330.4	338.1	345.8	347.8	361.4	379.4	388.5	400.9	425.8
152.5°	350.3	344.4	338.5	344.4	350.3	351.7	363.9	380.3	388.5	399.0	420.3
155°	359.3	355.1	350.7	355.1	359.3	360.4	369.8	382.2	388.5	396.9	413.8
157.5°	368.1	363.9	359.7	363.9	368.1	369.2	375.6	384.2	388.5	395.0	408.2
160°	372.2	369.0	365.7	369.0	372.2	373.1	378.2	385.0	388.5	394.1	405.4
162.5°	376.8	374.3	371.8	374.3	376.8	377.4	381.0	386.0	388.5	393.2	402.7
165°	382.8	380.6	378.4	380.6	382.8	383.4	385.1	387.3	388.5	391.9	398.6
167.5°	386.6	385.5	384.4	385.5	386.6	386.8	388.3	390.2	391.1	393.3	397.8
170°	390.6	389.5	388.5	389.5	390.6	390.8	390.9	391.0	391.1	393.3	397.8
172.5°	391.0	390.8	390.6	390.8	391.0	391.1	391.1	391.1	391.1	392.8	396.3
175°	393.5	393.5	393.5	393.5	393.5	393.5	392.7	391.6	391.1	392.2	394.4
177.5°	393.5	393.5	393.5	393.5	393.5	393.5	392.9	392.0	391.6	392.5	394.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934437

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1
2.5°	1726.4	1721.4	1728.2	1709.5	1728.2	1721.4	1726.4	1738.3	1728.2	1734.9	1741.7
5°	1514.9	1506.4	1479.3	1457.3	1479.3	1506.4	1514.9	1550.4	1567.3	1597.8	1638.5
7.5°	1354.0	1347.3	1340.6	1327.0	1340.6	1347.3	1354.0	1364.2	1381.1	1408.3	1438.7
10°	1318.5	1320.2	1330.4	1328.7	1330.4	1320.2	1318.5	1315.2	1310.1	1315.2	1333.8
12.5°	1409.9	1425.2	1481.1	1477.6	1481.1	1425.2	1409.9	1342.3	1296.6	1288.1	1291.4
15°	1514.9	1519.9	1531.8	1533.5	1531.8	1519.9	1514.9	1487.8	1350.7	1291.4	1272.8
17.5°	1525.0	1526.8	1535.2	1535.2	1535.2	1526.8	1525.0	1513.2	1467.5	1388.0	1283.0
20°	1516.6	1519.9	1536.9	1540.2	1536.9	1519.9	1516.6	1501.3	1475.9	1447.1	1367.6
22.5°	1513.2	1519.9	1533.5	1531.8	1533.5	1519.9	1513.2	1489.5	1467.5	1447.1	1415.0
25°	1496.3	1496.3	1498.0	1499.7	1498.0	1496.3	1496.3	1477.6	1433.7	1428.5	1409.9
27.5°	1460.7	1464.1	1474.2	1472.6	1474.2	1464.1	1460.7	1454.0	1406.6	1401.5	1388.0
30°	1428.5	1425.2	1416.7	1409.9	1416.7	1425.2	1428.5	1418.4	1371.0	1357.5	1360.9
32.5°	1374.4	1365.9	1357.5	1352.4	1357.5	1365.9	1374.4	1371.0	1335.4	1316.8	1320.2
35°	1310.1	1311.8	1310.1	1305.0	1310.1	1311.8	1310.1	1313.5	1291.4	1274.5	1272.8
37.5°	1264.4	1267.8	1266.1	1259.3	1266.1	1267.8	1264.4	1260.9	1230.5	1225.4	1228.8
40°	1217.0	1218.7	1217.0	1211.9	1217.0	1218.7	1217.0	1210.2	1167.9	1169.6	1181.4
42.5°	1171.3	1169.6	1164.5	1161.1	1164.5	1169.6	1171.3	1161.1	1106.9	1101.9	1123.9
45°	1118.8	1120.5	1110.4	1105.2	1110.4	1120.5	1118.8	1112.1	1056.2	1042.6	1057.8
47.5°	1066.4	1066.4	1057.8	1052.8	1057.8	1066.4	1066.4	1057.8	998.6	985.1	993.5
50°	1010.5	1008.8	996.9	995.2	996.9	1008.8	1010.5	1005.4	942.8	930.9	930.9
52.5°	946.2	946.2	947.8	951.2	947.8	946.2	946.2	947.8	892.0	880.2	876.8
55°	890.3	892.0	903.8	907.3	903.8	892.0	890.3	890.3	839.5	827.7	820.9
57.5°	832.8	832.8	841.2	841.2	841.2	832.8	832.8	829.4	780.3	770.2	766.8
60°	766.8	770.2	776.9	775.2	776.9	770.2	766.8	763.3	721.1	714.3	702.4
62.5°	697.3	700.7	702.4	699.0	702.4	700.7	697.3	687.2	661.8	656.7	641.5
65°	624.5	628.0	629.7	626.2	629.7	628.0	624.5	619.5	600.9	592.4	578.8
67.5°	550.1	548.4	546.7	553.5	546.7	548.4	550.1	543.3	531.4	524.7	506.1
70°	474.0	474.0	472.2	475.6	472.2	474.0	474.0	468.8	462.1	457.0	440.0
72.5°	392.6	391.0	397.8	392.6	397.8	391.0	392.6	391.0	387.6	382.6	365.6
75°	313.1	316.5	313.1	318.2	313.1	316.5	313.1	314.8	313.1	309.7	297.9
77.5°	238.6	242.1	238.6	238.6	238.6	242.1	238.6	240.4	240.4	240.4	230.2
80°	169.3	167.6	167.6	165.9	167.6	167.6	169.3	169.3	170.9	167.6	164.2
82.5°	108.3	106.6	106.6	110.0	106.6	106.6	108.3	110.0	106.6	106.6	106.6
85°	59.3	60.9	57.6	57.6	57.6	60.9	59.3	55.9	59.3	59.3	57.6
87.5°	22.0	20.3	20.3	20.3	20.3	20.3	22.0	23.7	23.7	23.7	25.4
90°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13.3	17.9	20.1	17.3
92.5°	50.1	48.2	40.1	32.2	40.1	48.2	50.1	71.1	99.0	113.0	99.2
95°	170.3	164.2	140.1	115.9	140.1	164.2	170.3	223.7	294.8	330.4	279.0
97.5°	393.2	381.6	335.7	289.7	335.7	381.6	393.2	426.9	471.9	494.4	408.8
100°	552.2	538.5	483.7	428.9	483.7	538.5	552.2	549.7	546.4	544.8	449.8
102.5°	687.9	676.2	629.2	582.3	629.2	676.2	687.9	645.0	587.6	559.0	462.7
105°	846.4	840.0	814.8	789.6	814.8	840.0	846.4	750.0	621.6	557.4	464.1
107.5°	928.7	930.2	936.3	942.4	936.3	930.2	928.7	794.3	615.2	525.7	443.5
110°	949.9	956.5	982.7	1009.0	982.7	956.5	949.9	799.7	599.4	499.3	425.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	936.4	946.5	986.9	1027.2	986.9	946.5	936.4	782.7	577.8	475.3	409.2
115°	890.7	904.7	960.6	1016.7	960.6	904.7	890.7	742.7	545.3	446.5	390.8
117.5°	827.6	843.1	905.2	967.3	905.2	843.1	827.6	694.0	515.8	426.7	379.4
120°	785.0	800.1	860.4	920.8	860.4	800.1	785.0	663.0	500.2	418.8	375.5
122.5°	742.6	757.4	817.0	876.4	817.0	757.4	742.6	632.7	486.0	412.7	373.4
125°	686.3	700.0	754.8	809.6	754.8	700.0	686.3	592.9	468.4	406.1	371.8
127.5°	641.1	652.6	698.9	745.2	698.9	652.6	641.1	560.9	454.1	400.6	370.9
130°	612.7	623.3	666.0	708.8	666.0	623.3	612.7	541.3	446.0	398.5	371.4
132.5°	588.3	597.9	636.2	674.4	636.2	597.9	588.3	524.4	439.3	396.7	371.8
135°	554.0	562.3	595.2	628.2	595.2	562.3	554.0	500.5	429.2	393.5	371.5
137.5°	528.6	535.4	562.4	589.4	562.4	535.4	528.6	483.4	423.0	392.9	373.7
140°	508.3	514.6	539.8	565.1	539.8	514.6	508.3	469.3	417.2	391.1	374.1
142.5°	494.0	499.5	521.2	542.9	521.2	499.5	494.0	459.7	414.0	391.1	375.5
145°	472.7	476.8	493.3	509.7	493.3	476.8	472.7	444.6	407.2	388.5	375.5
147.5°	454.7	458.2	471.7	485.3	471.7	458.2	454.7	432.6	403.1	388.5	378.0
150°	444.4	447.1	458.2	469.3	458.2	447.1	444.4	425.8	400.9	388.5	379.4
152.5°	436.2	438.3	446.6	455.0	446.6	438.3	436.2	420.3	399.0	388.5	380.3
155°	426.5	427.8	433.4	438.9	433.4	427.8	426.5	413.8	396.9	388.5	382.2
157.5°	418.0	418.9	422.9	426.7	422.9	418.9	418.0	408.2	395.0	388.5	384.2
160°	413.8	414.3	416.6	418.8	416.6	414.3	413.8	405.4	394.1	388.5	385.0
162.5°	409.8	410.3	412.5	414.6	412.5	410.3	409.8	402.7	393.2	388.5	386.0
165°	403.7	404.3	406.6	408.8	406.6	404.3	403.7	398.6	391.9	388.5	387.3
167.5°	401.1	401.4	402.3	403.2	402.3	401.4	401.1	397.8	393.3	391.1	390.2
170°	401.1	401.1	401.1	401.1	401.1	401.1	401.1	397.8	393.3	391.1	391.0
172.5°	399.0	398.8	397.9	397.2	397.9	398.8	399.0	396.3	392.8	391.1	391.1
175°	396.1	396.1	396.1	396.1	396.1	396.1	396.1	394.4	392.2	391.1	391.6
177.5°	395.5	395.3	394.4	393.5	394.4	395.3	395.5	394.3	392.5	391.6	392.0
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934437

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1789.1	1789.1	1789.1	1789.1	1789.1
2.5°	1767.1	1775.6	1780.6	1787.3	1804.3
5°	1699.4	1731.6	1741.7	1767.1	1797.5
7.5°	1550.4	1648.6	1675.7	1736.6	1784.0
10°	1406.6	1504.7	1552.1	1696.0	1767.1
12.5°	1333.8	1391.3	1423.5	1624.9	1743.4
15°	1288.1	1328.7	1352.4	1530.1	1716.3
17.5°	1252.5	1281.3	1298.2	1437.0	1679.0
20°	1230.5	1244.0	1259.3	1369.3	1636.8
22.5°	1215.3	1206.8	1218.7	1321.9	1579.2
25°	1205.2	1173.0	1186.6	1284.7	1511.5
27.5°	1213.6	1142.5	1147.6	1250.9	1440.4
30°	1215.3	1105.2	1106.9	1215.3	1360.9
32.5°	1203.5	1066.4	1068.0	1171.3	1271.1
35°	1174.7	1020.6	1019.0	1120.5	1149.3
37.5°	1135.7	971.6	971.6	1064.7	1015.6
40°	1088.3	922.5	927.6	991.9	897.1
42.5°	1030.8	870.0	876.8	895.4	809.0
45°	968.2	819.2	824.3	756.6	741.4
47.5°	898.8	766.8	768.5	628.0	719.3
50°	815.9	712.6	705.9	538.3	717.6
52.5°	743.1	653.3	633.0	487.5	651.6
55°	671.9	590.7	546.7	448.5	604.3
57.5°	609.3	509.5	467.1	402.8	594.1
60°	551.8	429.9	397.8	353.8	545.0
62.5°	504.4	370.7	363.9	319.9	494.2
65°	453.6	330.0	328.3	291.1	419.8
67.5°	404.5	303.0	301.3	264.0	319.9
70°	352.1	274.2	270.8	235.3	236.9
72.5°	297.9	242.1	238.6	211.6	196.4
75°	243.8	204.8	203.1	184.5	159.1
77.5°	191.2	162.5	165.9	149.0	116.8
80°	137.1	118.5	121.9	106.6	88.0
82.5°	91.4	77.9	81.2	67.7	59.3
85°	50.8	44.0	45.7	35.5	27.1
87.5°	23.7	20.3	20.3	13.6	8.5
90°	11.6	7.4	6.9	4.8	2.6
92.5°	71.7	51.0	46.5	28.5	10.6
95°	176.3	99.2	91.1	58.2	25.4
97.5°	237.5	109.1	101.8	72.9	43.8
100°	259.7	117.3	110.7	84.4	58.1
102.5°	270.0	125.5	119.3	94.8	70.2
105°	277.5	137.6	132.4	111.6	90.9
107.5°	279.0	155.5	150.7	131.4	112.0
110°	276.8	165.5	161.2	143.7	126.2



TEST NUMBER: P934437

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	276.9	177.7	173.6	156.9	140.2
115°	279.5	195.9	192.1	176.7	161.3
117.5°	284.7	213.6	210.1	196.2	182.2
120°	288.9	224.0	220.6	207.5	194.3
122.5°	294.9	236.1	232.7	219.5	206.3
125°	303.1	251.6	248.6	236.5	224.5
127.5°	311.3	266.7	263.7	251.5	239.2
130°	317.3	276.7	273.5	260.3	247.2
132.5°	322.2	284.9	281.7	268.5	255.4
135°	327.5	294.4	291.4	279.5	267.5
137.5°	335.3	306.5	303.6	291.8	279.9
140°	340.2	314.7	312.0	301.2	290.2
142.5°	344.2	320.8	318.2	308.2	298.1
145°	349.6	330.1	327.9	319.1	310.3
147.5°	357.3	341.7	339.6	331.0	322.4
150°	361.4	347.8	345.8	338.1	330.4
152.5°	363.9	351.7	350.3	344.4	338.5
155°	369.8	360.4	359.3	355.1	350.7
157.5°	375.6	369.2	368.1	363.9	359.7
160°	378.2	373.1	372.2	369.0	365.7
162.5°	381.0	377.4	376.8	374.3	371.8
165°	385.1	383.4	382.8	380.6	378.4
167.5°	388.3	386.8	386.6	385.5	384.4
170°	390.9	390.8	390.6	389.5	388.5
172.5°	391.1	391.1	391.0	390.8	390.6
175°	392.7	393.5	393.5	393.5	393.5
177.5°	392.9	393.5	393.5	393.5	393.5
180°	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934437

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-2700K

**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	14.40	15.41	15.22	16.25	17.30	17.22	18.23	18.04	19.07	20.12
	3H	14.89	15.79	15.72	16.64	17.72	18.58	19.48	19.41	20.34	21.41
	4H	15.08	15.94	15.94	16.80	17.89	19.03	19.88	19.88	20.74	21.83
	6H	15.21	16.00	16.07	16.87	17.97	19.32	20.11	20.18	20.97	22.07
	8H	15.22	15.97	16.09	16.85	17.95	19.40	20.15	20.27	21.03	22.13
	12H	15.19	15.91	16.07	16.79	17.91	19.44	20.15	20.32	21.03	22.16
4H	2H	15.45	16.30	16.30	17.16	18.25	17.65	18.50	18.51	19.37	20.45
	3H	16.49	17.20	17.35	18.09	19.19	19.17	19.88	20.03	20.77	21.87
	4H	16.77	17.42	17.65	18.31	19.44	19.70	20.35	20.58	21.24	22.37
	6H	16.90	17.46	17.80	18.38	19.51	20.07	20.63	20.97	21.55	22.68
	8H	16.91	17.44	17.81	18.34	19.49	20.18	20.70	21.08	21.61	22.76
	12H	16.89	17.36	17.80	18.29	19.44	20.24	20.72	21.16	21.64	22.79
8H	4H	17.23	17.76	18.13	18.67	19.81	19.84	20.36	20.73	21.27	22.41
	6H	17.50	17.94	18.43	18.89	20.03	20.28	20.71	21.20	21.66	22.81
	8H	17.55	17.93	18.48	18.87	20.03	20.43	20.81	21.37	21.76	22.92
	12H	17.54	17.87	18.48	18.81	20.02	20.53	20.87	21.47	21.81	23.02
12H	4H	17.25	17.72	18.17	18.65	19.80	19.81	20.28	20.73	21.21	22.36
	6H	17.56	17.95	18.50	18.89	20.05	20.28	20.66	21.21	21.60	22.76
	8H	17.64	17.98	18.58	18.91	20.12	20.44	20.78	21.38	21.72	22.93