

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: P934037

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934037
REPORT IS A COMBINATION OF REPORTS P933683 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

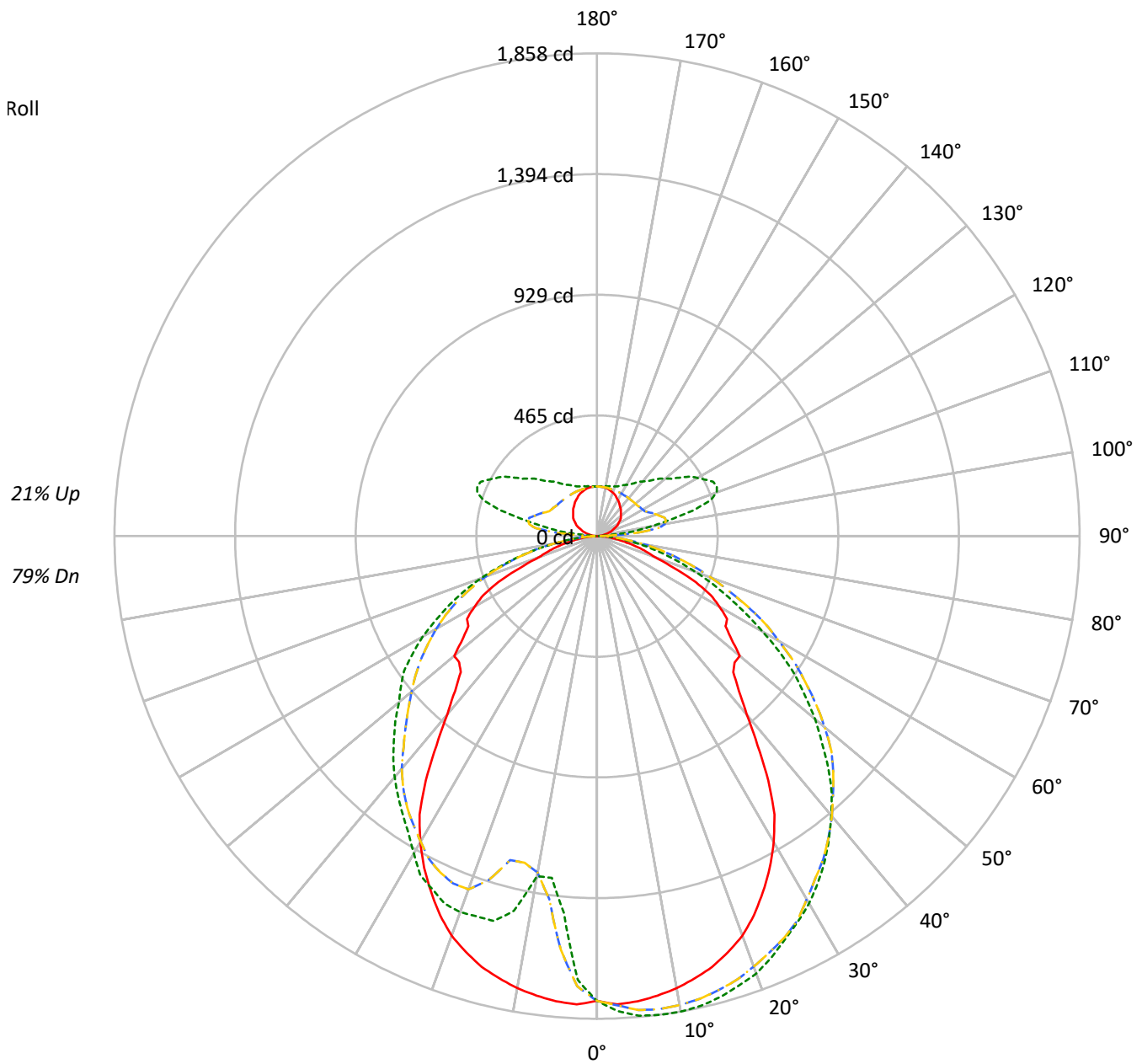
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5879.0 lumens
Efficiency: N/A
Efficacy: 101.0 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): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-2700K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

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	2.7
10°-20°	458.5	7.8
20°-30°	708.8	12.1
30°-40°	846.2	14.4
40°-50°	851.1	14.5
50°-60°	740.6	12.6
60°-70°	525.1	8.9
70°-80°	277.8	4.7
80°-90°	69.9	1.2
90°-100°	93.2	1.6
100°-110°	245.0	4.2
110°-120°	254.1	4.3
120°-130°	203.8	3.5
130°-140°	159.9	2.7
140°-150°	122.7	2.1
150°-160°	88.4	1.5
160°-170°	54.1	0.9
170°-180°	18.3	0.3
0°-30°	1328.8	22.6
0°-40°	2175.0	37.0
0°-60°	3766.7	64.1
0°-90°	4639.5	78.9
90°-120°	592.3	10.1
90°-150°	1078.7	18.3
90°-180°	1239.0	21.1
0°-180°	5879.0	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°	1	5	1	5	1	2
95°	12	56	12	56	12	14
105°	44	384	44	384	44	47
115°	78	494	78	494	78	77
125°	109	393	109	393	109	97
135°	130	305	130	305	130	101
145°	151	248	151	248	151	94
155°	170	213	170	213	170	78
165°	184	199	184	199	184	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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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°	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5	24.3	23.4
95°	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6	82.8	79.9
97.5°	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5	191.1	185.5
100°	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1	268.3	261.6
102.5°	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4	334.3	328.6
105°	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5	411.3	408.2
107.5°	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1	451.3	452.1
110°	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6	461.6	464.7



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3	455.0	459.9
115°	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9	432.8	439.6
117.5°	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2	402.1	409.6
120°	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2	381.5	388.9
122.5°	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4	360.9	368.1
125°	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2	333.5	340.2
127.5°	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6	311.6	317.2
130°	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0	297.7	302.9
132.5°	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9	285.9	290.5
135°	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3	269.2	273.2
137.5°	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0	256.9	260.2
140°	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1	247.0	250.1
142.5°	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4	240.1	242.7
145°	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0	229.7	231.6
147.5°	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2	221.0	222.6
150°	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9	215.9	217.3
152.5°	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2	212.0	213.0
155°	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1	207.2	207.9
157.5°	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3	203.1	203.6
160°	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0	201.1	201.3
162.5°	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7	199.2	199.4
165°	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7	196.2	196.4
167.5°	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3	194.9	195.0
170°	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3	194.9	194.9
172.5°	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6	193.9	193.8
175°	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7	192.5	192.5
177.5°	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6	192.3	192.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



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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°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4	5.6	3.6
92.5°	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3	34.8	24.8
95°	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6	85.7	48.3
97.5°	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6	115.4	53.0
100°	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6	126.2	57.0
102.5°	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8	131.2	61.0
105°	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5	134.9	66.9
107.5°	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5	135.6	75.6
110°	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6	134.5	80.5



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-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°	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8	134.5	86.4
115°	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9	135.8	95.2
117.5°	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3	138.3	103.8
120°	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5	140.4	108.8
122.5°	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5	143.3	114.7
125°	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7	147.3	122.3
127.5°	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2	151.3	129.6
130°	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5	154.2	134.4
132.5°	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7	156.6	138.5
135°	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6	159.1	143.1
137.5°	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7	163.0	149.0
140°	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8	165.4	153.0
142.5°	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4	167.2	155.9
145°	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4	169.9	160.4
147.5°	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7	173.6	166.0
150°	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4	175.6	169.0
152.5°	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8	176.9	170.9
155°	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8	179.7	175.2
157.5°	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7	182.5	179.4
160°	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1	183.8	181.3
162.5°	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6	185.2	183.4
165°	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2	187.1	186.3
167.5°	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6	188.7	188.0
170°	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0	190.0	189.9
172.5°	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3	190.8	191.2
177.5°	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5	190.9	191.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-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°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5
95°	44.2	28.3	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6
97.5°	49.5	35.4	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5
100°	53.8	41.0	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1
102.5°	58.0	46.1	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4
105°	64.3	54.2	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5
107.5°	73.2	63.8	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1
110°	78.3	69.9	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-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°	84.3	76.3	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3
115°	93.4	85.9	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9
117.5°	102.1	95.3	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2
120°	107.2	100.9	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2
122.5°	113.1	106.7	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4
125°	120.9	115.0	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2
127.5°	128.1	122.1	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6
130°	132.8	126.5	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0
132.5°	136.8	130.5	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9
135°	141.6	135.8	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3
137.5°	147.5	141.8	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0
140°	151.6	146.3	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1
142.5°	154.7	149.7	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4
145°	159.3	155.0	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0
147.5°	165.0	160.8	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2
150°	168.1	164.2	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9
152.5°	170.2	167.3	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2
155°	174.7	172.5	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1
157.5°	178.9	176.8	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3
160°	180.9	179.4	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0
162.5°	183.0	181.8	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7
165°	186.0	184.9	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7
167.5°	187.8	187.3	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3
170°	189.8	189.3	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3
172.5°	190.0	189.9	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6
175°	191.2	191.2	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7
177.5°	191.2	191.2	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-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°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4
92.5°	24.3	23.4	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3
95°	82.8	79.9	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6
97.5°	191.1	185.5	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6
100°	268.3	261.6	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6
102.5°	334.3	328.6	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8
105°	411.3	408.2	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5
107.5°	451.3	452.1	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5
110°	461.6	464.7	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	455.0	459.9	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8
115°	432.8	439.6	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9
117.5°	402.1	409.6	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3
120°	381.5	388.9	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5
122.5°	360.9	368.1	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5
125°	333.5	340.2	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7
127.5°	311.6	317.2	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2
130°	297.7	302.9	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5
132.5°	285.9	290.5	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7
135°	269.2	273.2	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6
137.5°	256.9	260.2	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7
140°	247.0	250.1	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8
142.5°	240.1	242.7	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4
145°	229.7	231.6	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4
147.5°	221.0	222.6	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7
150°	215.9	217.3	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4
152.5°	212.0	213.0	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8
155°	207.2	207.9	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8
157.5°	203.1	203.6	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7
160°	201.1	201.3	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1
162.5°	199.2	199.4	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6
165°	196.2	196.4	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2
167.5°	194.9	195.0	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6
170°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0
172.5°	193.9	193.8	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3
177.5°	192.3	192.2	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-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°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.8	22.5	13.8	5.1
95°	85.7	48.3	44.2	28.3	12.3
97.5°	115.4	53.0	49.5	35.4	21.3
100°	126.2	57.0	53.8	41.0	28.3
102.5°	131.2	61.0	58.0	46.1	34.2
105°	134.9	66.9	64.3	54.2	44.2
107.5°	135.6	75.6	73.2	63.8	54.4
110°	134.5	80.5	78.3	69.9	61.3



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.5	86.4	84.3	76.3	68.2
115°	135.8	95.2	93.4	85.9	78.4
117.5°	138.3	103.8	102.1	95.3	88.6
120°	140.4	108.8	107.2	100.9	94.5
122.5°	143.3	114.7	113.1	106.7	100.2
125°	147.3	122.3	120.9	115.0	109.1
127.5°	151.3	129.6	128.1	122.1	116.2
130°	154.2	134.4	132.8	126.5	120.1
132.5°	156.6	138.5	136.8	130.5	124.1
135°	159.1	143.1	141.6	135.8	130.0
137.5°	163.0	149.0	147.5	141.8	136.1
140°	165.4	153.0	151.6	146.3	141.0
142.5°	167.2	155.9	154.7	149.7	144.9
145°	169.9	160.4	159.3	155.0	150.8
147.5°	173.6	166.0	165.0	160.8	156.6
150°	175.6	169.0	168.1	164.2	160.5
152.5°	176.9	170.9	170.2	167.3	164.5
155°	179.7	175.2	174.7	172.5	170.4
157.5°	182.5	179.4	178.9	176.8	174.8
160°	183.8	181.3	180.9	179.4	177.7
162.5°	185.2	183.4	183.0	181.8	180.6
165°	187.1	186.3	186.0	184.9	183.9
167.5°	188.7	188.0	187.8	187.3	186.8
170°	190.0	189.9	189.8	189.3	188.8
172.5°	190.0	190.0	190.0	189.9	189.8
175°	190.8	191.2	191.2	191.2	191.2
177.5°	190.9	191.2	191.2	191.2	191.2
180°	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P934037

CATALOG NUMBER: SQ4-FA-025U-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	15.49	16.69	16.15	17.37	18.15	18.31	19.51	18.97	20.19	20.98
	3H	15.99	17.07	16.67	17.76	18.58	19.68	20.76	20.36	21.45	22.27
	4H	16.20	17.21	16.89	17.91	18.75	20.14	21.16	20.84	21.86	22.69
	6H	16.33	17.27	17.04	17.98	18.83	20.44	21.38	21.15	22.09	22.94
	8H	16.34	17.24	17.06	17.97	18.82	20.52	21.42	21.24	22.15	23.00
	12H	16.33	17.18	17.05	17.90	18.78	20.57	21.43	21.30	22.15	23.03
4H	2H	16.56	17.58	17.26	18.28	19.11	18.76	19.78	19.46	20.48	21.31
	3H	17.62	18.47	18.33	19.20	20.06	20.30	21.14	21.01	21.88	22.73
	4H	17.91	18.68	18.64	19.42	20.30	20.84	21.61	21.57	22.35	23.23
	6H	18.05	18.72	18.80	19.48	20.37	21.22	21.89	21.97	22.65	23.54
	8H	18.07	18.69	18.82	19.45	20.35	21.34	21.96	22.09	22.72	23.62
	12H	18.05	18.61	18.82	19.39	20.30	21.41	21.97	22.18	22.75	23.66
8H	4H	18.39	19.01	19.14	19.77	20.67	20.99	21.61	21.74	22.37	23.28
	6H	18.66	19.18	19.44	19.98	20.89	21.44	21.95	22.22	22.76	23.66
	8H	18.71	19.17	19.50	19.97	20.89	21.59	22.05	22.39	22.86	23.78
	12H	18.71	19.11	19.50	19.91	20.89	21.71	22.11	22.50	22.90	23.88
12H	4H	18.41	18.97	19.18	19.75	20.66	20.97	21.53	21.74	22.31	23.22
	6H	18.73	19.19	19.52	19.99	20.91	21.44	21.90	22.23	22.70	23.62
	8H	18.81	19.21	19.60	20.01	20.99	21.62	22.02	22.41	22.81	23.79