

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: P933972

Luminaire Tested: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933972
REPORT IS A COMBINATION OF REPORTS P933680 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

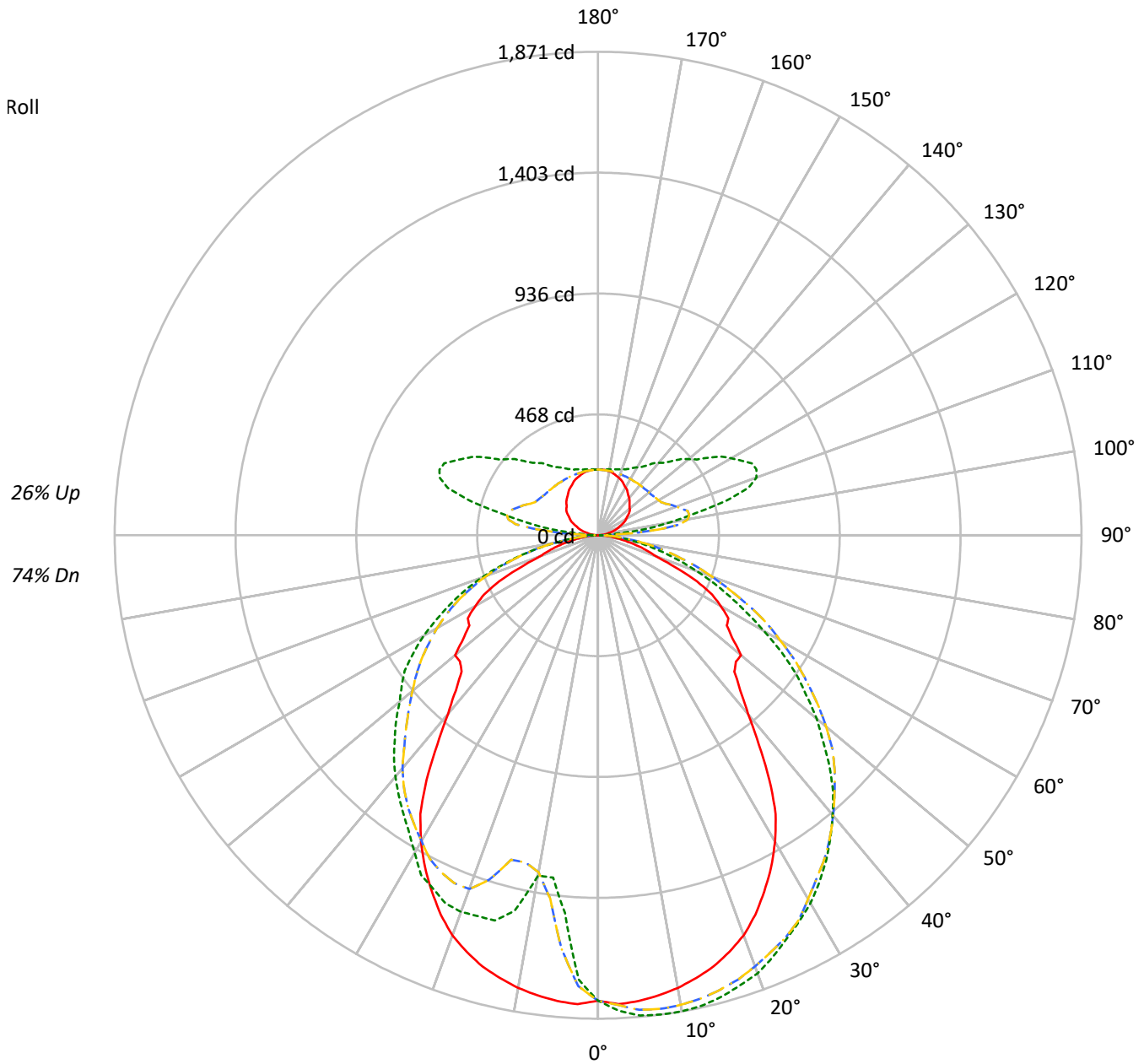
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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

TEST NUMBER: P933972
CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74				
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62				
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52				
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44				
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38				
5	72	60	52	45	68	57	50	44	52	46	41	48	42	38	43	39	36	33				
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29				
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26				
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23				
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21				
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8356	8356	8356	8356
5°	8419	8435	8419	6633
10°	8362	8309	8362	5940
15°	8271	8129	8271	6788
20°	8098	7916	8098	6802
25°	7744	7605	7744	6658
30°	7286	7347	7286	6341
35°	6496	7020	6496	5994
40°	5413	6635	5413	5731
45°	4837	6185	4837	5428
50°	5138	5648	5138	5126
55°	4834	5070	4834	4950
60°	4984	4306	4984	4534
65°	4518	3560	4518	3979
70°	3129	2837	3129	3335
75°	2744	2097	2744	2511
80°	2211	1387	2211	1510
85°	1272	735	1272	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7412 cd/sqm



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	2.6
10°-20°	461.6	7.3
20°-30°	713.5	11.3
30°-40°	851.8	13.5
40°-50°	856.8	13.6
50°-60°	745.6	11.8
60°-70°	528.6	8.4
70°-80°	279.7	4.4
80°-90°	70.6	1.1
90°-100°	124.0	2.0
100°-110°	325.9	5.2
110°-120°	337.9	5.3
120°-130°	271.1	4.3
130°-140°	212.7	3.4
140°-150°	163.2	2.6
150°-160°	117.6	1.9
160°-170°	71.9	1.1
170°-180°	24.3	0.4
0°-30°	1337.7	21.2
0°-40°	2189.5	34.6
0°-60°	3791.9	60.0
0°-90°	4670.8	73.9
90°-120°	787.8	12.5
90°-150°	1434.7	22.7
90°-180°	1649.0	26.1
0°-180°	6319.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1801	1801	1801	1801	1801	
5°	1810	1866	1810	1467	1810	172
15°	1728	1849	1728	1544	1728	486
25°	1522	1724	1522	1510	1522	699
35°	1157	1539	1157	1314	1157	716
45°	746	1268	746	1113	746	598
55°	608	936	608	913	608	559
65°	423	564	423	630	423	404
75°	160	268	160	320	160	168
85°	27	68	27	58	27	37
90°	2	6	2	6	2	3
95°	16	75	16	75	16	18
105°	59	510	59	510	59	62
115°	104	657	104	657	104	103
125°	145	523	145	523	145	129
135°	173	406	173	406	173	134
145°	201	329	201	329	201	126
155°	227	284	227	284	227	104
165°	245	264	245	264	245	69
175°	254	256	254	256	254	24
180°	254	254	254	254	254	



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CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0
2.5°	1816.4	1816.4	1826.6	1830.0	1830.0	1824.9	1819.8	1824.9	1840.2	1845.3	1843.6
5°	1809.6	1823.2	1841.9	1845.3	1848.8	1847.1	1843.6	1847.1	1864.1	1867.5	1869.2
7.5°	1795.9	1821.5	1845.3	1850.5	1855.6	1850.5	1848.8	1852.2	1869.2	1872.6	1872.6
10°	1778.9	1814.7	1841.9	1845.3	1850.5	1845.3	1845.3	1852.2	1869.2	1872.6	1874.3
12.5°	1755.0	1804.5	1830.0	1833.4	1840.2	1838.5	1836.8	1843.6	1860.7	1864.1	1864.1
15°	1727.8	1785.7	1809.6	1813.0	1824.9	1821.5	1821.5	1828.3	1847.1	1852.2	1850.5
17.5°	1690.3	1761.9	1789.1	1794.2	1802.7	1801.0	1802.7	1809.6	1826.6	1830.0	1831.7
20°	1647.7	1729.5	1761.9	1767.0	1775.5	1775.5	1775.5	1784.0	1801.0	1807.9	1807.9
22.5°	1589.7	1695.4	1729.5	1732.9	1743.1	1743.1	1746.5	1758.4	1773.8	1775.5	1775.5
25°	1521.6	1657.9	1686.9	1697.1	1707.3	1712.4	1717.5	1724.4	1729.5	1727.8	1729.5
27.5°	1450.0	1610.2	1647.7	1654.5	1668.1	1673.2	1680.1	1681.8	1683.5	1688.6	1685.2
30°	1369.9	1543.7	1600.0	1606.8	1628.9	1632.3	1625.5	1628.9	1637.5	1640.9	1644.3
32.5°	1279.6	1444.9	1550.6	1565.9	1586.3	1576.1	1574.4	1579.5	1593.2	1593.2	1596.6
35°	1156.9	1368.2	1504.5	1518.2	1533.5	1521.6	1528.4	1530.1	1538.6	1543.7	1542.0
37.5°	1022.3	1301.8	1456.8	1467.1	1479.0	1463.7	1473.9	1479.0	1485.8	1482.4	1482.4
40°	903.1	1197.8	1400.6	1407.4	1417.6	1405.7	1415.9	1419.3	1422.8	1419.3	1417.6
42.5°	814.5	1083.7	1341.0	1349.5	1342.7	1351.2	1354.6	1361.4	1356.3	1349.5	1349.5
45°	746.4	1053.0	1276.2	1286.4	1276.2	1289.8	1295.0	1295.0	1279.6	1276.2	1274.5
47.5°	724.2	991.7	1211.5	1211.5	1206.3	1223.4	1231.9	1220.0	1204.6	1199.5	1199.5
50°	722.5	923.6	1122.9	1116.0	1139.9	1160.3	1151.8	1139.9	1128.0	1109.2	1109.2
52.5°	656.0	840.1	1008.8	1034.2	1071.7	1083.7	1070.0	1058.1	1037.7	1029.1	1022.3
55°	608.3	753.2	904.8	955.9	995.1	1010.5	984.9	973.0	942.3	937.2	933.8
57.5°	598.1	627.1	809.4	874.2	921.9	920.2	904.8	882.7	857.1	852.0	850.3
60°	548.7	453.3	707.2	783.8	833.3	828.1	814.5	794.1	770.2	766.8	763.4
62.5°	497.6	328.9	591.3	678.2	748.1	746.4	734.4	703.8	686.7	678.2	671.4
65°	422.6	276.0	420.9	564.0	664.6	668.0	642.4	620.3	601.5	591.3	589.6
67.5°	322.1	224.9	284.6	470.3	584.5	581.1	548.7	538.5	514.6	509.5	499.3
70°	238.6	150.0	197.7	381.7	506.1	497.6	472.0	460.1	437.9	426.0	419.2
72.5°	197.7	121.0	144.8	296.5	426.0	415.8	393.6	380.0	361.2	351.0	344.2
75°	160.2	127.8	110.8	219.8	345.9	339.1	318.6	305.0	289.7	276.0	277.8
77.5°	117.6	119.3	88.6	161.9	274.3	264.1	252.2	235.2	228.3	214.7	214.7
80°	88.6	93.7	66.5	110.8	197.7	197.7	187.4	175.5	163.6	156.8	156.8
82.5°	59.6	59.6	49.4	69.9	134.6	129.5	122.7	119.3	112.5	109.1	109.1
85°	27.3	34.1	30.7	42.6	73.3	76.7	76.7	73.3	71.6	68.2	69.9
87.5°	8.5	15.3	18.7	23.9	37.5	39.2	40.9	40.9	40.9	42.6	42.6
90°	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6	6.5	6.5
92.5°	6.8	18.4	30.1	33.0	46.3	64.2	73.0	64.0	46.0	32.5	31.2
95°	16.4	37.6	58.9	64.2	113.9	180.3	213.5	190.5	144.6	110.1	106.2
97.5°	28.4	47.1	65.8	70.5	153.4	264.1	319.5	305.0	276.0	254.2	246.7
100°	37.6	54.5	71.5	75.7	167.8	290.6	352.0	353.2	355.3	356.9	348.0
102.5°	45.4	61.3	77.1	81.0	174.5	299.1	361.3	379.8	416.8	444.6	437.0
105°	58.7	72.2	85.6	88.9	179.4	300.0	360.3	401.8	484.8	547.0	542.9
107.5°	72.3	84.9	97.4	100.5	180.3	286.6	339.8	397.6	513.4	600.2	601.3
110°	81.6	92.9	104.2	107.0	178.9	274.8	322.7	387.4	516.8	613.9	618.1



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	90.7	101.4	112.1	114.8	179.0	264.5	307.2	373.4	505.8	605.2	611.7
115°	104.3	114.2	124.1	126.6	180.6	252.6	288.6	352.4	480.0	575.7	584.7
117.5°	117.7	126.8	135.8	138.1	184.0	245.2	275.8	333.4	448.5	534.9	544.9
120°	125.6	134.1	142.6	144.8	186.8	242.7	270.7	323.2	428.5	507.4	517.1
122.5°	133.3	141.9	150.5	152.6	190.7	241.4	266.8	314.1	408.9	479.9	489.6
125°	145.1	152.9	160.7	162.6	196.0	240.3	262.5	302.7	383.2	443.6	452.4
127.5°	154.6	162.5	170.4	172.4	201.2	239.7	258.9	293.5	362.6	414.4	421.9
130°	159.8	168.3	176.7	178.8	205.1	240.1	257.6	288.3	349.8	395.9	402.8
132.5°	165.0	173.6	182.0	184.1	208.2	240.3	256.4	283.9	338.9	380.2	386.5
135°	172.9	180.6	188.4	190.3	211.6	240.1	254.3	277.4	323.5	358.1	363.4
137.5°	180.9	188.5	196.2	198.2	216.7	241.5	254.0	273.5	312.4	341.7	346.0
140°	187.5	194.6	201.7	203.5	219.9	241.8	252.8	269.7	303.3	328.5	332.6
142.5°	192.7	199.2	205.8	207.4	222.5	242.7	252.8	267.6	297.2	319.3	322.8
145°	200.6	206.3	211.9	213.3	226.0	242.7	251.1	263.2	287.4	305.5	308.2
147.5°	208.4	213.9	219.5	220.8	230.9	244.4	251.1	260.6	279.6	293.9	296.1
150°	213.5	218.5	223.5	224.8	233.5	245.2	251.1	259.1	275.2	287.2	289.0
152.5°	218.8	222.5	226.4	227.3	235.2	245.8	251.1	257.9	271.6	281.9	283.3
155°	226.6	229.4	232.3	232.9	239.0	247.1	251.1	256.5	267.4	275.6	276.5
157.5°	232.4	235.2	237.9	238.6	242.7	248.3	251.1	255.3	263.8	270.2	270.8
160°	236.3	238.5	240.6	241.1	244.4	248.9	251.1	254.7	262.0	267.4	267.8
162.5°	240.3	241.9	243.4	243.8	246.2	249.5	251.1	254.2	260.3	264.9	265.2
165°	244.6	246.1	247.5	247.8	249.0	250.4	251.1	253.3	257.6	261.0	261.3
167.5°	248.5	249.2	249.9	250.1	251.0	252.2	252.8	254.2	257.1	259.3	259.4
170°	251.1	251.8	252.4	252.6	252.7	252.8	252.8	254.2	257.1	259.3	259.3
172.5°	252.4	252.6	252.8	252.8	252.8	252.8	252.8	253.9	256.2	257.9	257.7
175°	254.3	254.3	254.3	254.3	253.8	253.1	252.8	253.5	254.9	256.0	256.0
177.5°	254.3	254.3	254.3	254.3	253.9	253.4	253.1	253.7	254.8	255.7	255.5
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0
2.5°	1847.1	1841.9	1847.1	1843.6	1845.3	1840.2	1824.9	1819.8	1824.9	1830.0	1830.0
5°	1869.2	1865.8	1869.2	1869.2	1867.5	1864.1	1847.1	1843.6	1847.1	1848.8	1845.3
7.5°	1876.0	1870.9	1876.0	1872.6	1872.6	1869.2	1852.2	1848.8	1850.5	1855.6	1850.5
10°	1876.0	1870.9	1876.0	1874.3	1872.6	1869.2	1852.2	1845.3	1845.3	1850.5	1845.3
12.5°	1867.5	1864.1	1867.5	1864.1	1864.1	1860.7	1843.6	1836.8	1838.5	1840.2	1833.4
15°	1853.9	1848.8	1853.9	1850.5	1852.2	1847.1	1828.3	1821.5	1821.5	1824.9	1813.0
17.5°	1833.4	1826.6	1833.4	1831.7	1830.0	1826.6	1809.6	1802.7	1801.0	1802.7	1794.2
20°	1809.6	1804.5	1809.6	1807.9	1807.9	1801.0	1784.0	1775.5	1775.5	1775.5	1767.0
22.5°	1772.1	1767.0	1772.1	1775.5	1775.5	1773.8	1758.4	1746.5	1743.1	1743.1	1732.9
25°	1729.5	1724.4	1729.5	1729.5	1727.8	1729.5	1724.4	1717.5	1712.4	1707.3	1697.1
27.5°	1688.6	1685.2	1688.6	1685.2	1688.6	1683.5	1681.8	1680.1	1673.2	1668.1	1654.5
30°	1647.7	1644.3	1647.7	1644.3	1640.9	1637.5	1628.9	1625.5	1632.3	1628.9	1606.8
32.5°	1596.6	1593.2	1596.6	1596.6	1593.2	1593.2	1579.5	1574.4	1576.1	1586.3	1565.9
35°	1543.7	1538.6	1543.7	1542.0	1543.7	1538.6	1530.1	1528.4	1521.6	1533.5	1518.2
37.5°	1482.4	1477.3	1482.4	1482.4	1482.4	1485.8	1479.0	1473.9	1463.7	1479.0	1467.1
40°	1419.3	1412.5	1419.3	1417.6	1419.3	1422.8	1419.3	1415.9	1405.7	1417.6	1407.4
42.5°	1347.8	1346.1	1347.8	1349.5	1349.5	1356.3	1361.4	1354.6	1351.2	1342.7	1349.5
45°	1271.1	1267.7	1271.1	1274.5	1276.2	1279.6	1295.0	1295.0	1289.8	1276.2	1286.4
47.5°	1189.3	1180.8	1189.3	1199.5	1199.5	1204.6	1220.0	1231.9	1223.4	1206.3	1211.5
50°	1102.4	1104.1	1102.4	1109.2	1109.2	1128.0	1139.9	1151.8	1160.3	1139.9	1116.0
52.5°	1017.2	1015.6	1017.2	1022.3	1029.1	1037.7	1058.1	1070.0	1083.7	1071.7	1034.2
55°	932.1	935.5	932.1	933.8	937.2	942.3	973.0	984.9	1010.5	995.1	955.9
57.5°	846.9	841.8	846.9	850.3	852.0	857.1	882.7	904.8	920.2	921.9	874.2
60°	748.1	741.2	748.1	763.4	766.8	770.2	794.1	814.5	828.1	833.3	783.8
62.5°	661.2	649.2	661.2	671.4	678.2	686.7	703.8	734.4	746.4	748.1	678.2
65°	569.1	564.0	569.1	589.6	591.3	601.5	620.3	642.4	668.0	664.6	564.0
67.5°	485.6	485.6	485.6	499.3	509.5	514.6	538.5	548.7	581.1	584.5	470.3
70°	409.0	407.3	409.0	419.2	426.0	437.9	460.1	472.0	497.6	506.1	381.7
72.5°	335.7	334.0	335.7	344.2	351.0	361.2	380.0	393.6	415.8	426.0	296.5
75°	270.9	267.5	270.9	277.8	276.0	289.7	305.0	318.6	339.1	345.9	219.8
77.5°	207.9	207.9	207.9	214.7	214.7	228.3	235.2	252.2	264.1	274.3	161.9
80°	155.1	153.4	155.1	156.8	156.8	163.6	175.5	187.4	197.7	197.7	110.8
82.5°	109.1	105.6	109.1	109.1	109.1	112.5	119.3	122.7	129.5	134.6	69.9
85°	68.2	68.2	68.2	69.9	68.2	71.6	73.3	76.7	76.7	73.3	42.6
87.5°	44.3	42.6	44.3	42.6	42.6	40.9	40.9	40.9	39.2	37.5	23.9
90°	6.5	6.5	6.5	6.5	6.5	8.6	11.5	13.0	11.2	7.5	4.8
92.5°	26.0	20.8	26.0	31.2	32.5	46.0	64.0	73.0	64.2	46.3	33.0
95°	90.6	74.9	90.6	106.2	110.1	144.6	190.5	213.5	180.3	113.9	64.2
97.5°	216.9	187.2	216.9	246.7	254.2	276.0	305.0	319.5	264.1	153.4	70.5
100°	312.6	277.2	312.6	348.0	356.9	355.3	353.2	352.0	290.6	167.8	75.7
102.5°	406.7	376.3	406.7	437.0	444.6	416.8	379.8	361.3	299.1	174.5	81.0
105°	526.6	510.3	526.6	542.9	547.0	484.8	401.8	360.3	300.0	179.4	88.9
107.5°	605.2	609.1	605.2	601.3	600.2	513.4	397.6	339.8	286.6	180.3	100.5
110°	635.1	652.1	635.1	618.1	613.9	516.8	387.4	322.7	274.8	178.9	107.0



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	637.8	663.9	637.8	611.7	605.2	505.8	373.4	307.2	264.5	179.0	114.8
115°	620.9	657.1	620.9	584.7	575.7	480.0	352.4	288.6	252.6	180.6	126.6
117.5°	585.1	625.2	585.1	544.9	534.9	448.5	333.4	275.8	245.2	184.0	138.1
120°	556.1	595.1	556.1	517.1	507.4	428.5	323.2	270.7	242.7	186.8	144.8
122.5°	528.0	566.4	528.0	489.6	479.9	408.9	314.1	266.8	241.4	190.7	152.6
125°	487.9	523.3	487.9	452.4	443.6	383.2	302.7	262.5	240.3	196.0	162.6
127.5°	451.7	481.6	451.7	421.9	414.4	362.6	293.5	258.9	239.7	201.2	172.4
130°	430.4	458.0	430.4	402.8	395.9	349.8	288.3	257.6	240.1	205.1	178.8
132.5°	411.2	435.9	411.2	386.5	380.2	338.9	283.9	256.4	240.3	208.2	184.1
135°	384.7	406.0	384.7	363.4	358.1	323.5	277.4	254.3	240.1	211.6	190.3
137.5°	363.5	380.9	363.5	346.0	341.7	312.4	273.5	254.0	241.5	216.7	198.2
140°	348.9	365.3	348.9	332.6	328.5	303.3	269.7	252.8	241.8	219.9	203.5
142.5°	336.9	350.9	336.9	322.8	319.3	297.2	267.6	252.8	242.7	222.5	207.4
145°	318.8	329.4	318.8	308.2	305.5	287.4	263.2	251.1	242.7	226.0	213.3
147.5°	304.8	313.7	304.8	296.1	293.9	279.6	260.6	251.1	244.4	230.9	220.8
150°	296.2	303.3	296.2	289.0	287.2	275.2	259.1	251.1	245.2	233.5	224.8
152.5°	288.7	294.0	288.7	283.3	281.9	271.6	257.9	251.1	245.8	235.2	227.3
155°	280.1	283.6	280.1	276.5	275.6	267.4	256.5	251.1	247.1	239.0	232.9
157.5°	273.3	275.8	273.3	270.8	270.2	263.8	255.3	251.1	248.3	242.7	238.6
160°	269.2	270.7	269.2	267.8	267.4	262.0	254.7	251.1	248.9	244.4	241.1
162.5°	266.6	268.0	266.6	265.2	264.9	260.3	254.2	251.1	249.5	246.2	243.8
165°	262.8	264.2	262.8	261.3	261.0	257.6	253.3	251.1	250.4	249.0	247.8
167.5°	260.0	260.6	260.0	259.4	259.3	257.1	254.2	252.8	252.2	251.0	250.1
170°	259.3	259.3	259.3	259.3	259.3	257.1	254.2	252.8	252.8	252.7	252.6
172.5°	257.2	256.7	257.2	257.7	257.9	256.2	253.9	252.8	252.8	252.8	252.8
175°	256.0	256.0	256.0	256.0	256.0	254.9	253.5	252.8	253.1	253.8	254.3
177.5°	254.9	254.3	254.9	255.5	255.7	254.8	253.7	253.1	253.4	253.9	254.3
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0
2.5°	1826.6	1816.4	1816.4	1799.3	1792.5	1787.4	1778.9	1753.3	1746.5	1739.7	1749.9
5°	1841.9	1823.2	1809.6	1778.9	1753.3	1743.1	1710.7	1649.4	1608.5	1577.8	1560.8
7.5°	1845.3	1821.5	1795.9	1748.2	1686.9	1659.6	1560.8	1448.3	1417.6	1390.4	1373.3
10°	1841.9	1814.7	1778.9	1707.3	1562.5	1514.8	1415.9	1342.7	1323.9	1318.8	1323.9
12.5°	1830.0	1804.5	1755.0	1635.8	1433.0	1400.6	1342.7	1300.1	1296.7	1305.2	1351.2
15°	1809.6	1785.7	1727.8	1540.3	1361.4	1337.6	1296.7	1281.3	1300.1	1359.7	1497.7
17.5°	1789.1	1761.9	1690.3	1446.6	1306.9	1289.8	1260.9	1291.5	1397.2	1477.3	1523.3
20°	1761.9	1729.5	1647.7	1378.5	1267.7	1252.4	1238.7	1376.7	1456.8	1485.8	1511.4
22.5°	1729.5	1695.4	1589.7	1330.7	1226.8	1214.9	1223.4	1424.5	1456.8	1477.3	1499.4
25°	1686.9	1657.9	1521.6	1293.3	1194.4	1180.8	1213.2	1419.3	1438.1	1443.2	1487.5
27.5°	1647.7	1610.2	1450.0	1259.2	1155.2	1150.1	1221.7	1397.2	1410.8	1415.9	1463.7
30°	1600.0	1543.7	1369.9	1223.4	1114.3	1112.6	1223.4	1369.9	1366.5	1380.2	1427.9
32.5°	1550.6	1444.9	1279.6	1179.1	1075.1	1073.4	1211.5	1329.0	1325.6	1344.4	1380.2
35°	1504.5	1368.2	1156.9	1128.0	1025.7	1027.4	1182.5	1281.3	1283.0	1300.1	1322.2
37.5°	1456.8	1301.8	1022.3	1071.7	978.1	978.1	1143.3	1237.0	1233.6	1238.7	1269.4
40°	1400.6	1197.8	903.1	998.5	933.8	928.7	1095.6	1189.3	1177.4	1175.7	1218.3
42.5°	1341.0	1083.7	814.5	901.4	882.7	875.9	1037.7	1131.4	1109.2	1114.3	1168.9
45°	1276.2	1053.0	746.4	761.7	829.8	824.7	974.7	1064.9	1049.6	1063.2	1119.4
47.5°	1211.5	991.7	724.2	632.2	773.6	771.9	904.8	1000.2	991.7	1005.4	1064.9
50°	1122.9	923.6	722.5	541.9	710.6	717.4	821.3	937.2	937.2	949.1	1012.2
52.5°	1008.8	840.1	656.0	490.8	637.3	657.7	748.1	882.7	886.1	898.0	954.2
55°	904.8	753.2	608.3	451.6	550.4	594.7	676.5	826.4	833.3	845.2	896.3
57.5°	809.4	627.1	598.1	405.6	470.3	512.9	613.4	771.9	775.3	785.5	835.0
60°	707.2	453.3	548.7	356.1	400.4	432.8	555.5	707.2	719.1	725.9	768.5
62.5°	591.3	328.9	497.6	322.1	366.4	373.2	507.8	645.8	661.2	666.3	691.8
65°	420.9	276.0	422.6	293.1	330.6	332.3	456.7	582.8	596.4	604.9	623.7
67.5°	284.6	224.9	322.1	265.8	303.3	305.0	407.3	509.5	528.2	535.1	547.0
70°	197.7	150.0	238.6	236.9	272.6	276.0	354.4	443.0	460.1	465.2	472.0
72.5°	144.8	121.0	197.7	213.0	240.3	243.7	299.9	368.1	385.1	390.2	393.6
75°	110.8	127.8	160.2	185.7	204.5	206.2	245.4	299.9	311.8	315.2	316.9
77.5°	88.6	119.3	117.6	150.0	167.0	163.6	192.6	231.7	242.0	242.0	242.0
80°	66.5	93.7	88.6	107.4	122.7	119.3	138.0	165.3	168.7	172.1	170.4
82.5°	49.4	59.6	59.6	68.2	81.8	78.4	92.0	107.4	107.4	107.4	110.8
85°	30.7	34.1	27.3	35.8	46.0	44.3	51.1	57.9	59.6	59.6	56.2
87.5°	18.7	15.3	8.5	13.6	20.4	20.4	23.9	25.6	23.9	23.9	23.9
90°	4.4	3.1	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6
92.5°	30.1	18.4	6.8	18.4	30.1	33.0	46.3	64.2	73.0	64.0	46.0
95°	58.9	37.6	16.4	37.6	58.9	64.2	113.9	180.3	213.5	190.5	144.6
97.5°	65.8	47.1	28.4	47.1	65.8	70.5	153.4	264.1	319.5	305.0	276.0
100°	71.5	54.5	37.6	54.5	71.5	75.7	167.8	290.6	352.0	353.2	355.3
102.5°	77.1	61.3	45.4	61.3	77.1	81.0	174.5	299.1	361.3	379.8	416.8
105°	85.6	72.2	58.7	72.2	85.6	88.9	179.4	300.0	360.3	401.8	484.8
107.5°	97.4	84.9	72.3	84.9	97.4	100.5	180.3	286.6	339.8	397.6	513.4
110°	104.2	92.9	81.6	92.9	104.2	107.0	178.9	274.8	322.7	387.4	516.8



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	112.1	101.4	90.7	101.4	112.1	114.8	179.0	264.5	307.2	373.4	505.8
115°	124.1	114.2	104.3	114.2	124.1	126.6	180.6	252.6	288.6	352.4	480.0
117.5°	135.8	126.8	117.7	126.8	135.8	138.1	184.0	245.2	275.8	333.4	448.5
120°	142.6	134.1	125.6	134.1	142.6	144.8	186.8	242.7	270.7	323.2	428.5
122.5°	150.5	141.9	133.3	141.9	150.5	152.6	190.7	241.4	266.8	314.1	408.9
125°	160.7	152.9	145.1	152.9	160.7	162.6	196.0	240.3	262.5	302.7	383.2
127.5°	170.4	162.5	154.6	162.5	170.4	172.4	201.2	239.7	258.9	293.5	362.6
130°	176.7	168.3	159.8	168.3	176.7	178.8	205.1	240.1	257.6	288.3	349.8
132.5°	182.0	173.6	165.0	173.6	182.0	184.1	208.2	240.3	256.4	283.9	338.9
135°	188.4	180.6	172.9	180.6	188.4	190.3	211.6	240.1	254.3	277.4	323.5
137.5°	196.2	188.5	180.9	188.5	196.2	198.2	216.7	241.5	254.0	273.5	312.4
140°	201.7	194.6	187.5	194.6	201.7	203.5	219.9	241.8	252.8	269.7	303.3
142.5°	205.8	199.2	192.7	199.2	205.8	207.4	222.5	242.7	252.8	267.6	297.2
145°	211.9	206.3	200.6	206.3	211.9	213.3	226.0	242.7	251.1	263.2	287.4
147.5°	219.5	213.9	208.4	213.9	219.5	220.8	230.9	244.4	251.1	260.6	279.6
150°	223.5	218.5	213.5	218.5	223.5	224.8	233.5	245.2	251.1	259.1	275.2
152.5°	226.4	222.5	218.8	222.5	226.4	227.3	235.2	245.8	251.1	257.9	271.6
155°	232.3	229.4	226.6	229.4	232.3	232.9	239.0	247.1	251.1	256.5	267.4
157.5°	237.9	235.2	232.4	235.2	237.9	238.6	242.7	248.3	251.1	255.3	263.8
160°	240.6	238.5	236.3	238.5	240.6	241.1	244.4	248.9	251.1	254.7	262.0
162.5°	243.4	241.9	240.3	241.9	243.4	243.8	246.2	249.5	251.1	254.2	260.3
165°	247.5	246.1	244.6	246.1	247.5	247.8	249.0	250.4	251.1	253.3	257.6
167.5°	249.9	249.2	248.5	249.2	249.9	250.1	251.0	252.2	252.8	254.2	257.1
170°	252.4	251.8	251.1	251.8	252.4	252.6	252.7	252.8	252.8	254.2	257.1
172.5°	252.8	252.6	252.4	252.6	252.8	252.8	252.8	252.8	252.8	253.9	256.2
175°	254.3	254.3	254.3	254.3	254.3	254.3	253.8	253.1	252.8	253.5	254.9
177.5°	254.3	254.3	254.3	254.3	254.3	254.3	253.9	253.4	253.1	253.7	254.8
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0
2.5°	1738.0	1732.9	1739.7	1721.0	1739.7	1732.9	1738.0	1749.9	1739.7	1746.5	1753.3
5°	1525.0	1516.5	1489.2	1467.1	1489.2	1516.5	1525.0	1560.8	1577.8	1608.5	1649.4
7.5°	1363.1	1356.3	1349.5	1335.9	1349.5	1356.3	1363.1	1373.3	1390.4	1417.6	1448.3
10°	1327.3	1329.0	1339.3	1337.6	1339.3	1329.0	1327.3	1323.9	1318.8	1323.9	1342.7
12.5°	1419.3	1434.7	1490.9	1487.5	1490.9	1434.7	1419.3	1351.2	1305.2	1296.7	1300.1
15°	1525.0	1530.1	1542.0	1543.7	1542.0	1530.1	1525.0	1497.7	1359.7	1300.1	1281.3
17.5°	1535.2	1536.9	1545.4	1545.4	1545.4	1536.9	1535.2	1523.3	1477.3	1397.2	1291.5
20°	1526.7	1530.1	1547.1	1550.6	1547.1	1530.1	1526.7	1511.4	1485.8	1456.8	1376.7
22.5°	1523.3	1530.1	1543.7	1542.0	1543.7	1530.1	1523.3	1499.4	1477.3	1456.8	1424.5
25°	1506.3	1506.3	1508.0	1509.7	1508.0	1506.3	1506.3	1487.5	1443.2	1438.1	1419.3
27.5°	1470.5	1473.9	1484.1	1482.4	1484.1	1473.9	1470.5	1463.7	1415.9	1410.8	1397.2
30°	1438.1	1434.7	1426.2	1419.3	1426.2	1434.7	1438.1	1427.9	1380.2	1366.5	1369.9
32.5°	1383.6	1375.0	1366.5	1361.4	1366.5	1375.0	1383.6	1380.2	1344.4	1325.6	1329.0
35°	1318.8	1320.5	1318.8	1313.7	1318.8	1320.5	1318.8	1322.2	1300.1	1283.0	1281.3
37.5°	1272.8	1276.2	1274.5	1267.7	1274.5	1276.2	1272.8	1269.4	1238.7	1233.6	1237.0
40°	1225.1	1226.8	1225.1	1220.0	1225.1	1226.8	1225.1	1218.3	1175.7	1177.4	1189.3
42.5°	1179.1	1177.4	1172.3	1168.9	1172.3	1177.4	1179.1	1168.9	1114.3	1109.2	1131.4
45°	1126.3	1128.0	1117.7	1112.6	1117.7	1128.0	1126.3	1119.4	1063.2	1049.6	1064.9
47.5°	1073.4	1073.4	1064.9	1059.8	1064.9	1073.4	1073.4	1064.9	1005.4	991.7	1000.2
50°	1017.2	1015.6	1003.7	1002.0	1003.7	1015.6	1017.2	1012.2	949.1	937.2	937.2
52.5°	952.5	952.5	954.2	957.6	954.2	952.5	952.5	954.2	898.0	886.1	882.7
55°	896.3	898.0	909.9	913.3	909.9	898.0	896.3	896.3	845.2	833.3	826.4
57.5°	838.4	838.4	846.9	846.9	846.9	838.4	838.4	835.0	785.5	775.3	771.9
60°	771.9	775.3	782.1	780.4	782.1	775.3	771.9	768.5	725.9	719.1	707.2
62.5°	702.0	705.5	707.2	703.8	707.2	705.5	702.0	691.8	666.3	661.2	645.8
65°	628.8	632.2	633.9	630.5	633.9	632.2	628.8	623.7	604.9	596.4	582.8
67.5°	553.8	552.1	550.4	557.2	550.4	552.1	553.8	547.0	535.1	528.2	509.5
70°	477.1	477.1	475.4	478.8	475.4	477.1	477.1	472.0	465.2	460.1	443.0
72.5°	395.3	393.6	400.4	395.3	400.4	393.6	395.3	393.6	390.2	385.1	368.1
75°	315.2	318.6	315.2	320.4	315.2	318.6	315.2	316.9	315.2	311.8	299.9
77.5°	240.3	243.7	240.3	240.3	240.3	243.7	240.3	242.0	242.0	242.0	231.7
80°	170.4	168.7	168.7	167.0	168.7	168.7	170.4	170.4	172.1	168.7	165.3
82.5°	109.1	107.4	107.4	110.8	107.4	107.4	109.1	110.8	107.4	107.4	107.4
85°	59.6	61.3	57.9	57.9	57.9	61.3	59.6	56.2	59.6	59.6	57.9
87.5°	22.2	20.4	20.4	20.4	20.4	20.4	22.2	23.9	23.9	23.9	25.6
90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.6	11.5	13.0	11.2
92.5°	32.5	31.2	26.0	20.8	26.0	31.2	32.5	46.0	64.0	73.0	64.2
95°	110.1	106.2	90.6	74.9	90.6	106.2	110.1	144.6	190.5	213.5	180.3
97.5°	254.2	246.7	216.9	187.2	216.9	246.7	254.2	276.0	305.0	319.5	264.1
100°	356.9	348.0	312.6	277.2	312.6	348.0	356.9	355.3	353.2	352.0	290.6
102.5°	444.6	437.0	406.7	376.3	406.7	437.0	444.6	416.8	379.8	361.3	299.1
105°	547.0	542.9	526.6	510.3	526.6	542.9	547.0	484.8	401.8	360.3	300.0
107.5°	600.2	601.3	605.2	609.1	605.2	601.3	600.2	513.4	397.6	339.8	286.6
110°	613.9	618.1	635.1	652.1	635.1	618.1	613.9	516.8	387.4	322.7	274.8



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	605.2	611.7	637.8	663.9	637.8	611.7	605.2	505.8	373.4	307.2	264.5
115°	575.7	584.7	620.9	657.1	620.9	584.7	575.7	480.0	352.4	288.6	252.6
117.5°	534.9	544.9	585.1	625.2	585.1	544.9	534.9	448.5	333.4	275.8	245.2
120°	507.4	517.1	556.1	595.1	556.1	517.1	507.4	428.5	323.2	270.7	242.7
122.5°	479.9	489.6	528.0	566.4	528.0	489.6	479.9	408.9	314.1	266.8	241.4
125°	443.6	452.4	487.9	523.3	487.9	452.4	443.6	383.2	302.7	262.5	240.3
127.5°	414.4	421.9	451.7	481.6	451.7	421.9	414.4	362.6	293.5	258.9	239.7
130°	395.9	402.8	430.4	458.0	430.4	402.8	395.9	349.8	288.3	257.6	240.1
132.5°	380.2	386.5	411.2	435.9	411.2	386.5	380.2	338.9	283.9	256.4	240.3
135°	358.1	363.4	384.7	406.0	384.7	363.4	358.1	323.5	277.4	254.3	240.1
137.5°	341.7	346.0	363.5	380.9	363.5	346.0	341.7	312.4	273.5	254.0	241.5
140°	328.5	332.6	348.9	365.3	348.9	332.6	328.5	303.3	269.7	252.8	241.8
142.5°	319.3	322.8	336.9	350.9	336.9	322.8	319.3	297.2	267.6	252.8	242.7
145°	305.5	308.2	318.8	329.4	318.8	308.2	305.5	287.4	263.2	251.1	242.7
147.5°	293.9	296.1	304.8	313.7	304.8	296.1	293.9	279.6	260.6	251.1	244.4
150°	287.2	289.0	296.2	303.3	296.2	289.0	287.2	275.2	259.1	251.1	245.2
152.5°	281.9	283.3	288.7	294.0	288.7	283.3	281.9	271.6	257.9	251.1	245.8
155°	275.6	276.5	280.1	283.6	280.1	276.5	275.6	267.4	256.5	251.1	247.1
157.5°	270.2	270.8	273.3	275.8	273.3	270.8	270.2	263.8	255.3	251.1	248.3
160°	267.4	267.8	269.2	270.7	269.2	267.8	267.4	262.0	254.7	251.1	248.9
162.5°	264.9	265.2	266.6	268.0	266.6	265.2	264.9	260.3	254.2	251.1	249.5
165°	261.0	261.3	262.8	264.2	262.8	261.3	261.0	257.6	253.3	251.1	250.4
167.5°	259.3	259.4	260.0	260.6	260.0	259.4	259.3	257.1	254.2	252.8	252.2
170°	259.3	259.3	259.3	259.3	259.3	259.3	259.3	257.1	254.2	252.8	252.8
172.5°	257.9	257.7	257.2	256.7	257.2	257.7	257.9	256.2	253.9	252.8	252.8
175°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	254.9	253.5	252.8	253.1
177.5°	255.7	255.5	254.9	254.3	254.9	255.5	255.7	254.8	253.7	253.1	253.4
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1801.0	1801.0	1801.0	1801.0	1801.0
2.5°	1778.9	1787.4	1792.5	1799.3	1816.4
5°	1710.7	1743.1	1753.3	1778.9	1809.6
7.5°	1560.8	1659.6	1686.9	1748.2	1795.9
10°	1415.9	1514.8	1562.5	1707.3	1778.9
12.5°	1342.7	1400.6	1433.0	1635.8	1755.0
15°	1296.7	1337.6	1361.4	1540.3	1727.8
17.5°	1260.9	1289.8	1306.9	1446.6	1690.3
20°	1238.7	1252.4	1267.7	1378.5	1647.7
22.5°	1223.4	1214.9	1226.8	1330.7	1589.7
25°	1213.2	1180.8	1194.4	1293.3	1521.6
27.5°	1221.7	1150.1	1155.2	1259.2	1450.0
30°	1223.4	1112.6	1114.3	1223.4	1369.9
32.5°	1211.5	1073.4	1075.1	1179.1	1279.6
35°	1182.5	1027.4	1025.7	1128.0	1156.9
37.5°	1143.3	978.1	978.1	1071.7	1022.3
40°	1095.6	928.7	933.8	998.5	903.1
42.5°	1037.7	875.9	882.7	901.4	814.5
45°	974.7	824.7	829.8	761.7	746.4
47.5°	904.8	771.9	773.6	632.2	724.2
50°	821.3	717.4	710.6	541.9	722.5
52.5°	748.1	657.7	637.3	490.8	656.0
55°	676.5	594.7	550.4	451.6	608.3
57.5°	613.4	512.9	470.3	405.6	598.1
60°	555.5	432.8	400.4	356.1	548.7
62.5°	507.8	373.2	366.4	322.1	497.6
65°	456.7	332.3	330.6	293.1	422.6
67.5°	407.3	305.0	303.3	265.8	322.1
70°	354.4	276.0	272.6	236.9	238.6
72.5°	299.9	243.7	240.3	213.0	197.7
75°	245.4	206.2	204.5	185.7	160.2
77.5°	192.6	163.6	167.0	150.0	117.6
80°	138.0	119.3	122.7	107.4	88.6
82.5°	92.0	78.4	81.8	68.2	59.6
85°	51.1	44.3	46.0	35.8	27.3
87.5°	23.9	20.4	20.4	13.6	8.5
90°	7.5	4.8	4.4	3.1	1.7
92.5°	46.3	33.0	30.1	18.4	6.8
95°	113.9	64.2	58.9	37.6	16.4
97.5°	153.4	70.5	65.8	47.1	28.4
100°	167.8	75.7	71.5	54.5	37.6
102.5°	174.5	81.0	77.1	61.3	45.4
105°	179.4	88.9	85.6	72.2	58.7
107.5°	180.3	100.5	97.4	84.9	72.3
110°	178.9	107.0	104.2	92.9	81.6



TEST NUMBER: P933972

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	179.0	114.8	112.1	101.4	90.7
115°	180.6	126.6	124.1	114.2	104.3
117.5°	184.0	138.1	135.8	126.8	117.7
120°	186.8	144.8	142.6	134.1	125.6
122.5°	190.7	152.6	150.5	141.9	133.3
125°	196.0	162.6	160.7	152.9	145.1
127.5°	201.2	172.4	170.4	162.5	154.6
130°	205.1	178.8	176.7	168.3	159.8
132.5°	208.2	184.1	182.0	173.6	165.0
135°	211.6	190.3	188.4	180.6	172.9
137.5°	216.7	198.2	196.2	188.5	180.9
140°	219.9	203.5	201.7	194.6	187.5
142.5°	222.5	207.4	205.8	199.2	192.7
145°	226.0	213.3	211.9	206.3	200.6
147.5°	230.9	220.8	219.5	213.9	208.4
150°	233.5	224.8	223.5	218.5	213.5
152.5°	235.2	227.3	226.4	222.5	218.8
155°	239.0	232.9	232.3	229.4	226.6
157.5°	242.7	238.6	237.9	235.2	232.4
160°	244.4	241.1	240.6	238.5	236.3
162.5°	246.2	243.8	243.4	241.9	240.3
165°	249.0	247.8	247.5	246.1	244.6
167.5°	251.0	250.1	249.9	249.2	248.5
170°	252.7	252.6	252.4	251.8	251.1
172.5°	252.8	252.8	252.8	252.6	252.4
175°	253.8	254.3	254.3	254.3	254.3
177.5°	253.9	254.3	254.3	254.3	254.3
180°	254.3	254.3	254.3	254.3	254.3



TEST NUMBER: P933972
 CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-8

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	14.15	15.28	14.87	16.02	16.90	16.99	18.11	17.71	18.85	19.74
	3H	14.65	15.66	15.38	16.41	17.32	18.35	19.37	19.09	20.12	21.03
	4H	14.85	15.80	15.60	16.56	17.49	18.81	19.77	19.56	20.53	21.45
	6H	14.98	15.86	15.75	16.63	17.57	19.11	19.99	19.88	20.76	21.70
	8H	14.99	15.83	15.77	16.62	17.56	19.20	20.03	19.97	20.82	21.77
	12H	14.97	15.77	15.75	16.55	17.52	19.24	20.04	20.03	20.83	21.80
4H	2H	15.21	16.17	15.97	16.93	17.86	17.43	18.38	18.18	19.14	20.07
	3H	16.27	17.06	17.04	17.86	18.80	18.96	19.76	19.73	20.55	21.50
	4H	16.55	17.28	17.34	18.07	19.05	19.50	20.22	20.28	21.02	21.99
	6H	16.69	17.32	17.50	18.14	19.12	19.88	20.51	20.68	21.33	22.31
	8H	16.71	17.29	17.51	18.11	19.10	20.00	20.58	20.80	21.40	22.39
	12H	16.69	17.21	17.51	18.05	19.05	20.07	20.59	20.89	21.43	22.43
8H	4H	17.03	17.61	17.84	18.43	19.42	19.65	20.23	20.45	21.05	22.04
	6H	17.30	17.79	18.14	18.65	19.64	20.10	20.58	20.93	21.44	22.43
	8H	17.35	17.78	18.19	18.63	19.64	20.25	20.68	21.10	21.54	22.55
	12H	17.34	17.72	18.19	18.57	19.64	20.36	20.74	21.21	21.59	22.65
12H	4H	17.05	17.57	17.87	18.41	19.41	19.62	20.15	20.45	20.99	21.98
	6H	17.37	17.80	18.21	18.65	19.66	20.09	20.53	20.94	21.38	22.39
	8H	17.44	17.82	18.29	18.67	19.74	20.27	20.65	21.12	21.50	22.56