

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: P934114

Luminaire Tested: SQ4-FA-025U-125D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934114
REPORT IS A COMBINATION OF REPORTS P933686 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

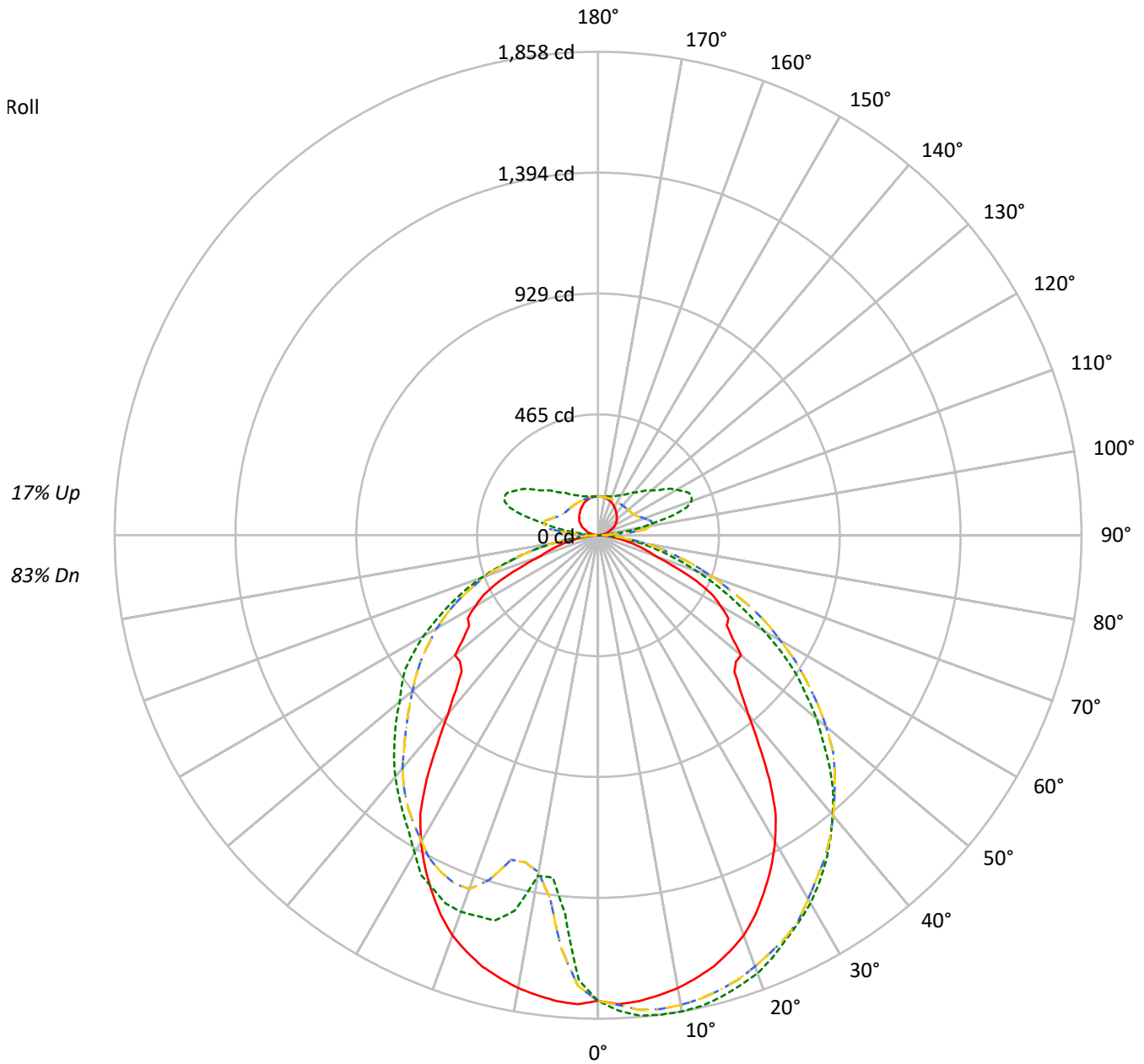
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5606.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.6
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



— 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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16599	16599	16599	16599
5°	16704	16756	16704	13175
10°	16574	16505	16574	11800
15°	16375	16148	16375	13483
20°	16014	15724	16014	13511
25°	15294	15106	15294	13225
30°	14371	14593	14371	12597
35°	12793	13944	12793	11906
40°	10641	13180	10641	11384
45°	9489	12286	9489	10784
50°	10058	11220	10058	10181
55°	9438	10071	9438	9833
60°	9693	8554	9693	9006
65°	8746	7071	8746	7904
70°	6014	5635	6014	6625
75°	5217	4165	5217	4988
80°	4119	2754	4119	2998
85°	2244	1459	2244	1239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14572 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	2.9
10°-20°	458.5	8.2
20°-30°	708.7	12.6
30°-40°	846.0	15.1
40°-50°	851.0	15.2
50°-60°	740.5	13.2
60°-70°	525.0	9.4
70°-80°	277.8	5.0
80°-90°	69.7	1.2
90°-100°	72.7	1.3
100°-110°	191.3	3.4
110°-120°	198.3	3.5
120°-130°	159.0	2.8
130°-140°	124.8	2.2
140°-150°	95.8	1.7
150°-160°	69.0	1.2
160°-170°	42.2	0.8
170°-180°	14.3	0.3
0°-30°	1328.6	23.7
0°-40°	2174.6	38.8
0°-60°	3766.1	67.2
0°-90°	4638.6	82.7
90°-120°	462.3	8.2
90°-150°	842.0	15.0
90°-180°	967.0	17.2
0°-180°	5606.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1789	1789	1789	1789	1789	
5°	1797	1853	1797	1457	1797	170
15°	1716	1836	1716	1533	1716	483
25°	1511	1713	1511	1499	1511	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	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	300	34	300	34	37
115°	61	386	61	386	61	60
125°	85	307	85	307	85	76
135°	102	238	102	238	102	79
145°	118	193	118	193	118	74
155°	133	166	133	166	133	61
165°	144	155	144	155	144	40
175°	149	150	149	150	149	14
180°	149	149	149	149	149	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8
2.5°	1804.0	1804.0	1814.2	1817.6	1817.6	1812.5	1807.4	1812.5	1827.7	1832.8	1831.1
5°	1797.2	1810.8	1829.4	1832.8	1836.2	1834.5	1831.1	1834.5	1851.4	1854.8	1856.5
7.5°	1783.7	1809.1	1832.8	1837.9	1842.9	1837.9	1836.2	1839.6	1856.5	1859.9	1859.9
10°	1766.8	1802.3	1829.4	1832.8	1837.9	1832.8	1832.8	1839.6	1856.5	1859.9	1861.6
12.5°	1743.1	1792.2	1817.6	1820.9	1827.7	1826.0	1824.3	1831.1	1848.0	1851.4	1851.4
15°	1716.0	1773.6	1797.2	1800.6	1812.5	1809.1	1809.1	1815.9	1834.5	1839.6	1837.9
17.5°	1678.8	1749.9	1776.9	1782.0	1790.5	1788.8	1790.5	1797.2	1814.2	1817.6	1819.2
20°	1636.5	1717.7	1749.9	1754.9	1763.4	1763.4	1763.4	1771.9	1788.8	1795.6	1795.6
22.5°	1578.9	1683.9	1717.7	1721.1	1731.2	1731.2	1734.6	1746.5	1761.7	1763.4	1763.4
25°	1511.2	1646.6	1675.4	1685.6	1695.7	1700.8	1705.9	1712.6	1717.7	1716.0	1717.7
27.5°	1440.2	1599.2	1636.5	1643.2	1656.8	1661.9	1668.6	1670.3	1672.0	1677.1	1673.7
30°	1360.6	1533.2	1589.1	1595.9	1617.9	1621.2	1614.5	1617.9	1626.3	1629.7	1633.1
32.5°	1270.9	1435.1	1540.0	1555.2	1575.6	1565.4	1563.7	1568.8	1582.3	1582.3	1585.7
35°	1149.1	1358.9	1494.3	1507.9	1523.1	1511.2	1518.0	1519.7	1528.2	1533.2	1531.6
37.5°	1015.4	1292.9	1446.9	1457.1	1468.9	1453.7	1463.9	1468.9	1475.7	1472.3	1472.3
40°	896.9	1189.7	1391.1	1397.9	1408.0	1396.2	1406.3	1409.7	1413.1	1409.7	1408.0
42.5°	808.9	1076.3	1331.9	1340.3	1333.5	1342.0	1345.4	1352.2	1347.1	1340.3	1340.3
45°	741.2	1045.9	1267.5	1277.7	1267.5	1281.1	1286.2	1286.2	1270.9	1267.5	1265.9
47.5°	719.2	984.9	1203.2	1203.2	1198.2	1215.1	1223.5	1211.7	1196.5	1191.4	1191.4
50°	717.5	917.2	1115.2	1108.5	1132.2	1152.5	1144.0	1132.2	1120.3	1101.7	1101.7
52.5°	651.5	834.3	1001.9	1027.2	1064.5	1076.3	1062.8	1050.9	1030.6	1022.2	1015.4
55°	604.2	748.0	898.6	949.4	988.3	1003.5	978.2	966.3	935.9	930.8	927.4
57.5°	594.0	622.8	803.9	868.2	915.5	913.9	898.6	876.6	851.2	846.2	844.5
60°	544.9	450.2	702.3	778.5	827.5	822.5	808.9	788.6	764.9	761.5	758.2
62.5°	494.2	326.6	587.2	673.5	742.9	741.2	729.4	698.9	682.0	673.5	666.8
65°	419.7	274.2	418.0	560.2	660.0	663.4	638.0	616.0	597.4	587.2	585.5
67.5°	319.8	223.4	282.6	467.1	580.5	577.1	544.9	534.8	511.1	506.0	495.9
70°	236.9	148.9	196.3	379.1	502.6	494.2	468.8	456.9	434.9	423.1	416.3
72.5°	196.3	120.2	143.8	294.5	423.1	412.9	390.9	377.4	358.8	348.6	341.8
75°	159.1	126.9	110.0	218.3	343.5	336.8	316.5	302.9	287.7	274.2	275.8
77.5°	116.8	118.5	88.0	160.8	272.5	262.3	250.5	233.5	226.8	213.2	213.2
80°	88.0	93.1	66.0	110.0	196.3	196.3	186.2	174.3	162.5	155.7	155.7
82.5°	59.2	59.2	49.1	69.4	133.7	128.6	121.8	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	40.6	40.6	40.6	42.3	42.3
90°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.6	19.3	27.2	37.7	42.9	37.6	27.0	19.0	18.2
95°	9.6	22.1	34.6	37.7	66.9	105.8	125.3	111.8	84.8	64.6	62.3
97.5°	16.6	27.6	38.6	41.4	90.1	155.0	187.5	179.0	161.9	149.1	144.7
100°	22.0	32.0	42.0	44.5	98.5	170.6	206.6	207.2	208.5	209.4	204.2
102.5°	26.6	35.9	45.3	47.6	102.4	175.5	212.0	222.9	244.6	260.9	256.4
105°	34.5	42.4	50.2	52.2	105.3	176.0	211.4	235.8	284.5	321.0	318.6
107.5°	42.5	49.8	57.2	59.0	105.8	168.2	199.4	233.4	301.3	352.3	352.9
110°	47.9	54.5	61.1	62.8	105.0	161.3	189.4	227.4	303.3	360.3	362.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.2	59.5	65.8	67.4	105.0	155.2	180.3	219.2	296.9	355.2	359.0
115°	61.2	67.0	72.8	74.3	106.0	148.3	169.4	206.8	281.7	337.8	343.1
117.5°	69.1	74.4	79.7	81.0	108.0	143.9	161.9	195.7	263.2	313.9	319.8
120°	73.7	78.7	83.7	84.9	109.5	142.4	158.8	189.7	251.5	297.8	303.5
122.5°	78.2	83.2	88.2	89.5	111.8	141.6	156.5	184.3	239.9	281.6	287.2
125°	85.1	89.7	94.3	95.5	115.0	141.0	154.0	177.6	224.9	260.3	265.5
127.5°	90.7	95.4	100.0	101.2	118.1	140.6	151.9	172.2	212.8	243.2	247.6
130°	93.7	98.7	103.7	105.0	120.4	140.9	151.1	169.2	205.3	232.4	236.4
132.5°	96.9	101.9	106.9	108.1	122.2	141.0	150.4	166.6	198.9	223.2	226.8
135°	101.5	106.0	110.6	111.7	124.2	140.9	149.2	162.7	189.8	210.1	213.2
137.5°	106.2	110.7	115.2	116.3	127.2	141.7	149.0	160.4	183.3	200.5	203.1
140°	110.1	114.2	118.4	119.4	129.0	141.9	148.3	158.2	178.0	192.8	195.2
142.5°	113.1	116.9	120.7	121.7	130.6	142.4	148.3	157.0	174.4	187.4	189.5
145°	117.7	121.0	124.4	125.2	132.6	142.4	147.3	154.4	168.6	179.3	180.9
147.5°	122.3	125.5	128.8	129.6	135.5	143.4	147.3	152.9	164.1	172.5	173.8
150°	125.3	128.2	131.2	131.9	137.0	143.9	147.3	152.0	161.5	168.6	169.6
152.5°	128.4	130.6	132.8	133.4	138.0	144.2	147.3	151.3	159.4	165.5	166.3
155°	133.0	134.6	136.3	136.7	140.2	144.9	147.3	150.5	157.0	161.8	162.3
157.5°	136.4	138.0	139.6	140.0	142.4	145.7	147.3	149.8	154.8	158.5	158.9
160°	138.7	139.9	141.2	141.5	143.4	146.0	147.3	149.4	153.7	156.9	157.1
162.5°	141.0	141.9	142.9	143.1	144.5	146.4	147.3	149.1	152.7	155.4	155.6
165°	143.5	144.3	145.2	145.4	146.0	146.9	147.3	148.6	151.2	153.1	153.3
167.5°	145.8	146.2	146.6	146.7	147.2	147.9	148.3	149.1	150.8	152.1	152.2
170°	147.3	147.7	148.1	148.2	148.2	148.3	148.3	149.1	150.8	152.1	152.1
172.5°	148.1	148.2	148.3	148.3	148.3	148.3	148.3	149.0	150.3	151.3	151.2
175°	149.2	149.2	149.2	149.2	148.9	148.5	148.3	148.7	149.6	150.2	150.2
177.5°	149.2	149.2	149.2	149.2	149.0	148.7	148.5	148.8	149.5	150.0	149.9
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8
2.5°	1834.5	1829.4	1834.5	1831.1	1832.8	1827.7	1812.5	1807.4	1812.5	1817.6	1817.6
5°	1856.5	1853.1	1856.5	1856.5	1854.8	1851.4	1834.5	1831.1	1834.5	1836.2	1832.8
7.5°	1863.2	1858.2	1863.2	1859.9	1859.9	1856.5	1839.6	1836.2	1837.9	1842.9	1837.9
10°	1863.2	1858.2	1863.2	1861.6	1859.9	1856.5	1839.6	1832.8	1832.8	1837.9	1832.8
12.5°	1854.8	1851.4	1854.8	1851.4	1851.4	1848.0	1831.1	1824.3	1826.0	1827.7	1820.9
15°	1841.2	1836.2	1841.2	1837.9	1839.6	1834.5	1815.9	1809.1	1809.1	1812.5	1800.6
17.5°	1820.9	1814.2	1820.9	1819.2	1817.6	1814.2	1797.2	1790.5	1788.8	1790.5	1782.0
20°	1797.2	1792.2	1797.2	1795.6	1795.6	1788.8	1771.9	1763.4	1763.4	1763.4	1754.9
22.5°	1760.0	1754.9	1760.0	1763.4	1763.4	1761.7	1746.5	1734.6	1731.2	1731.2	1721.1
25°	1717.7	1712.6	1717.7	1717.7	1716.0	1717.7	1712.6	1705.9	1700.8	1695.7	1685.6
27.5°	1677.1	1673.7	1677.1	1673.7	1677.1	1672.0	1670.3	1668.6	1661.9	1656.8	1643.2
30°	1636.5	1633.1	1636.5	1633.1	1629.7	1626.3	1617.9	1614.5	1621.2	1617.9	1595.9
32.5°	1585.7	1582.3	1585.7	1585.7	1582.3	1582.3	1568.8	1563.7	1565.4	1575.6	1555.2
35°	1533.2	1528.2	1533.2	1531.6	1533.2	1528.2	1519.7	1518.0	1511.2	1523.1	1507.9
37.5°	1472.3	1467.2	1472.3	1472.3	1472.3	1475.7	1468.9	1463.9	1453.7	1468.9	1457.1
40°	1409.7	1402.9	1409.7	1408.0	1409.7	1413.1	1409.7	1406.3	1396.2	1408.0	1397.9
42.5°	1338.6	1336.9	1338.6	1340.3	1340.3	1347.1	1352.2	1345.4	1342.0	1333.5	1340.3
45°	1262.5	1259.1	1262.5	1265.9	1267.5	1270.9	1286.2	1286.2	1281.1	1267.5	1277.7
47.5°	1181.2	1172.8	1181.2	1191.4	1191.4	1196.5	1211.7	1223.5	1215.1	1198.2	1203.2
50°	1094.9	1096.6	1094.9	1101.7	1101.7	1120.3	1132.2	1144.0	1152.5	1132.2	1108.5
52.5°	1010.3	1008.6	1010.3	1015.4	1022.2	1030.6	1050.9	1062.8	1076.3	1064.5	1027.2
55°	925.7	929.1	925.7	927.4	930.8	935.9	966.3	978.2	1003.5	988.3	949.4
57.5°	841.1	836.0	841.1	844.5	846.2	851.2	876.6	898.6	913.9	915.5	868.2
60°	742.9	736.2	742.9	758.2	761.5	764.9	788.6	808.9	822.5	827.5	778.5
62.5°	656.6	644.8	656.6	666.8	673.5	682.0	698.9	729.4	741.2	742.9	673.5
65°	565.2	560.2	565.2	585.5	587.2	597.4	616.0	638.0	663.4	660.0	560.2
67.5°	482.3	482.3	482.3	495.9	506.0	511.1	534.8	544.9	577.1	580.5	467.1
70°	406.2	404.5	406.2	416.3	423.1	434.9	456.9	468.8	494.2	502.6	379.1
72.5°	333.4	331.7	333.4	341.8	348.6	358.8	377.4	390.9	412.9	423.1	294.5
75°	269.1	265.7	269.1	275.8	274.2	287.7	302.9	316.5	336.8	343.5	218.3
77.5°	206.5	206.5	206.5	213.2	213.2	226.8	233.5	250.5	262.3	272.5	160.8
80°	154.0	152.3	154.0	155.7	155.7	162.5	174.3	186.2	196.3	196.3	110.0
82.5°	108.3	104.9	108.3	108.3	108.3	111.7	118.5	121.8	128.6	133.7	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	40.6	40.6	40.6	38.9	37.2	23.7
90°	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5	4.4	2.8
92.5°	15.2	12.2	15.2	18.2	19.0	27.0	37.6	42.9	37.7	27.2	19.3
95°	53.2	44.0	53.2	62.3	64.6	84.8	111.8	125.3	105.8	66.9	37.7
97.5°	127.3	109.9	127.3	144.7	149.1	161.9	179.0	187.5	155.0	90.1	41.4
100°	183.5	162.7	183.5	204.2	209.4	208.5	207.2	206.6	170.6	98.5	44.5
102.5°	238.6	220.8	238.6	256.4	260.9	244.6	222.9	212.0	175.5	102.4	47.6
105°	309.1	299.5	309.1	318.6	321.0	284.5	235.8	211.4	176.0	105.3	52.2
107.5°	355.2	357.5	355.2	352.9	352.3	301.3	233.4	199.4	168.2	105.8	59.0
110°	372.7	382.7	372.7	362.8	360.3	303.3	227.4	189.4	161.3	105.0	62.8



TEST NUMBER: P934114

CATALOG NUMBER: SQ4-FA-025U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	374.3	389.6	374.3	359.0	355.2	296.9	219.2	180.3	155.2	105.0	67.4
115°	364.4	385.6	364.4	343.1	337.8	281.7	206.8	169.4	148.3	106.0	74.3
117.5°	343.3	366.9	343.3	319.8	313.9	263.2	195.7	161.9	143.9	108.0	81.0
120°	326.4	349.2	326.4	303.5	297.8	251.5	189.7	158.8	142.4	109.5	84.9
122.5°	309.8	332.4	309.8	287.2	281.6	239.9	184.3	156.5	141.6	111.8	89.5
125°	286.3	307.1	286.3	265.5	260.3	224.9	177.6	154.0	141.0	115.0	95.5
127.5°	265.1	282.6	265.1	247.6	243.2	212.8	172.2	151.9	140.6	118.1	101.2
130°	252.6	268.8	252.6	236.4	232.4	205.3	169.2	151.1	140.9	120.4	105.0
132.5°	241.3	255.8	241.3	226.8	223.2	198.9	166.6	150.4	141.0	122.2	108.1
135°	225.8	238.3	225.8	213.2	210.1	189.8	162.7	149.2	140.9	124.2	111.7
137.5°	213.3	223.6	213.3	203.1	200.5	183.3	160.4	149.0	141.7	127.2	116.3
140°	204.7	214.3	204.7	195.2	192.8	178.0	158.2	148.3	141.9	129.0	119.4
142.5°	197.7	205.9	197.7	189.5	187.4	174.4	157.0	148.3	142.4	130.6	121.7
145°	187.1	193.3	187.1	180.9	179.3	168.6	154.4	147.3	142.4	132.6	125.2
147.5°	178.9	184.1	178.9	173.8	172.5	164.1	152.9	147.3	143.4	135.5	129.6
150°	173.8	178.0	173.8	169.6	168.6	161.5	152.0	147.3	143.9	137.0	131.9
152.5°	169.4	172.6	169.4	166.3	165.5	159.4	151.3	147.3	144.2	138.0	133.4
155°	164.4	166.5	164.4	162.3	161.8	157.0	150.5	147.3	144.9	140.2	136.7
157.5°	160.4	161.9	160.4	158.9	158.5	154.8	149.8	147.3	145.7	142.4	140.0
160°	158.0	158.8	158.0	157.1	156.9	153.7	149.4	147.3	146.0	143.4	141.5
162.5°	156.4	157.2	156.4	155.6	155.4	152.7	149.1	147.3	146.4	144.5	143.1
165°	154.2	155.0	154.2	153.3	153.1	151.2	148.6	147.3	146.9	146.0	145.4
167.5°	152.5	152.9	152.5	152.2	152.1	150.8	149.1	148.3	147.9	147.2	146.7
170°	152.1	152.1	152.1	152.1	152.1	150.8	149.1	148.3	148.3	148.2	148.2
172.5°	150.9	150.6	150.9	151.2	151.3	150.3	149.0	148.3	148.3	148.3	148.3
175°	150.2	150.2	150.2	150.2	150.2	149.6	148.7	148.3	148.5	148.9	149.2
177.5°	149.6	149.2	149.6	149.9	150.0	149.5	148.8	148.5	148.7	149.0	149.2
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



TEST NUMBER: P934114

CATALOG NUMBER: SQ4-FA-025U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8
2.5°	1814.2	1804.0	1804.0	1787.1	1780.3	1775.2	1766.8	1741.4	1734.6	1727.9	1738.0
5°	1829.4	1810.8	1797.2	1766.8	1741.4	1731.2	1699.1	1638.2	1597.6	1567.1	1550.2
7.5°	1832.8	1809.1	1783.7	1736.3	1675.4	1648.3	1550.2	1438.5	1408.0	1380.9	1364.0
10°	1829.4	1802.3	1766.8	1695.7	1551.9	1504.5	1406.3	1333.5	1314.9	1309.9	1314.9
12.5°	1817.6	1792.2	1743.1	1624.6	1423.2	1391.1	1333.5	1291.2	1287.9	1296.3	1342.0
15°	1797.2	1773.6	1716.0	1529.9	1352.2	1328.5	1287.9	1272.6	1291.2	1350.5	1487.6
17.5°	1776.9	1749.9	1678.8	1436.8	1298.0	1281.1	1252.3	1282.8	1387.7	1467.2	1512.9
20°	1749.9	1717.7	1636.5	1369.1	1259.1	1243.9	1230.3	1367.4	1446.9	1475.7	1501.1
22.5°	1717.7	1683.9	1578.9	1321.7	1218.5	1206.6	1215.1	1414.8	1446.9	1467.2	1489.2
25°	1675.4	1646.6	1511.2	1284.5	1186.3	1172.8	1204.9	1409.7	1428.3	1433.4	1477.4
27.5°	1636.5	1599.2	1440.2	1250.6	1147.4	1142.3	1213.4	1387.7	1401.2	1406.3	1453.7
30°	1589.1	1533.2	1360.6	1215.1	1106.8	1105.1	1215.1	1360.6	1357.2	1370.8	1418.2
32.5°	1540.0	1435.1	1270.9	1171.1	1067.9	1066.2	1203.2	1320.0	1316.6	1335.2	1370.8
35°	1494.3	1358.9	1149.1	1120.3	1018.8	1020.5	1174.5	1272.6	1274.3	1291.2	1313.2
37.5°	1446.9	1292.9	1015.4	1064.5	971.4	971.4	1135.5	1228.6	1225.2	1230.3	1260.8
40°	1391.1	1189.7	896.9	991.7	927.4	922.3	1088.2	1181.2	1169.4	1167.7	1210.0
42.5°	1331.9	1076.3	808.9	895.2	876.6	869.9	1030.6	1123.7	1101.7	1106.8	1160.9
45°	1267.5	1045.9	741.2	756.5	824.2	819.1	968.0	1057.7	1042.5	1056.0	1111.9
47.5°	1203.2	984.9	719.2	627.9	768.3	766.6	898.6	993.4	984.9	998.5	1057.7
50°	1115.2	917.2	717.5	538.2	705.7	712.5	815.7	930.8	930.8	942.6	1005.2
52.5°	1001.9	834.3	651.5	487.4	632.9	653.2	742.9	876.6	880.0	891.9	947.7
55°	898.6	748.0	604.2	448.5	546.6	590.6	671.9	820.8	827.5	839.4	890.2
57.5°	803.9	622.8	594.0	402.8	467.1	509.4	609.2	766.6	770.0	780.2	829.2
60°	702.3	450.2	544.9	353.7	397.7	429.8	551.7	702.3	714.2	720.9	763.2
62.5°	587.2	326.6	494.2	319.8	363.8	370.6	504.3	641.4	656.6	661.7	687.1
65°	418.0	274.2	419.7	291.1	328.3	330.0	453.5	578.8	592.3	600.8	619.4
67.5°	282.6	223.4	319.8	264.0	301.2	302.9	404.5	506.0	524.6	531.4	543.2
70°	196.3	148.9	236.9	235.2	270.8	274.2	352.0	440.0	456.9	462.0	468.8
72.5°	143.8	120.2	196.3	211.5	238.6	242.0	297.8	365.5	382.5	387.5	390.9
75°	110.0	126.9	159.1	184.5	203.1	204.8	243.7	297.8	309.7	313.1	314.8
77.5°	88.0	118.5	116.8	148.9	165.8	162.5	191.2	230.2	240.3	240.3	240.3
80°	66.0	93.1	88.0	106.6	121.8	118.5	137.1	164.2	167.5	170.9	169.2
82.5°	49.1	59.2	59.2	67.7	81.2	77.8	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	57.5	59.2	59.2	55.8
87.5°	18.6	15.2	8.5	13.5	20.3	20.3	23.7	25.4	23.7	23.7	23.7
90°	2.6	1.8	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1
92.5°	17.6	10.8	4.0	10.8	17.6	19.3	27.2	37.7	42.9	37.6	27.0
95°	34.6	22.1	9.6	22.1	34.6	37.7	66.9	105.8	125.3	111.8	84.8
97.5°	38.6	27.6	16.6	27.6	38.6	41.4	90.1	155.0	187.5	179.0	161.9
100°	42.0	32.0	22.0	32.0	42.0	44.5	98.5	170.6	206.6	207.2	208.5
102.5°	45.3	35.9	26.6	35.9	45.3	47.6	102.4	175.5	212.0	222.9	244.6
105°	50.2	42.4	34.5	42.4	50.2	52.2	105.3	176.0	211.4	235.8	284.5
107.5°	57.2	49.8	42.5	49.8	57.2	59.0	105.8	168.2	199.4	233.4	301.3
110°	61.1	54.5	47.9	54.5	61.1	62.8	105.0	161.3	189.4	227.4	303.3



TEST NUMBER: P934114

CATALOG NUMBER: SQ4-FA-025U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.8	59.5	53.2	59.5	65.8	67.4	105.0	155.2	180.3	219.2	296.9
115°	72.8	67.0	61.2	67.0	72.8	74.3	106.0	148.3	169.4	206.8	281.7
117.5°	79.7	74.4	69.1	74.4	79.7	81.0	108.0	143.9	161.9	195.7	263.2
120°	83.7	78.7	73.7	78.7	83.7	84.9	109.5	142.4	158.8	189.7	251.5
122.5°	88.2	83.2	78.2	83.2	88.2	89.5	111.8	141.6	156.5	184.3	239.9
125°	94.3	89.7	85.1	89.7	94.3	95.5	115.0	141.0	154.0	177.6	224.9
127.5°	100.0	95.4	90.7	95.4	100.0	101.2	118.1	140.6	151.9	172.2	212.8
130°	103.7	98.7	93.7	98.7	103.7	105.0	120.4	140.9	151.1	169.2	205.3
132.5°	106.9	101.9	96.9	101.9	106.9	108.1	122.2	141.0	150.4	166.6	198.9
135°	110.6	106.0	101.5	106.0	110.6	111.7	124.2	140.9	149.2	162.7	189.8
137.5°	115.2	110.7	106.2	110.7	115.2	116.3	127.2	141.7	149.0	160.4	183.3
140°	118.4	114.2	110.1	114.2	118.4	119.4	129.0	141.9	148.3	158.2	178.0
142.5°	120.7	116.9	113.1	116.9	120.7	121.7	130.6	142.4	148.3	157.0	174.4
145°	124.4	121.0	117.7	121.0	124.4	125.2	132.6	142.4	147.3	154.4	168.6
147.5°	128.8	125.5	122.3	125.5	128.8	129.6	135.5	143.4	147.3	152.9	164.1
150°	131.2	128.2	125.3	128.2	131.2	131.9	137.0	143.9	147.3	152.0	161.5
152.5°	132.8	130.6	128.4	130.6	132.8	133.4	138.0	144.2	147.3	151.3	159.4
155°	136.3	134.6	133.0	134.6	136.3	136.7	140.2	144.9	147.3	150.5	157.0
157.5°	139.6	138.0	136.4	138.0	139.6	140.0	142.4	145.7	147.3	149.8	154.8
160°	141.2	139.9	138.7	139.9	141.2	141.5	143.4	146.0	147.3	149.4	153.7
162.5°	142.9	141.9	141.0	141.9	142.9	143.1	144.5	146.4	147.3	149.1	152.7
165°	145.2	144.3	143.5	144.3	145.2	145.4	146.0	146.9	147.3	148.6	151.2
167.5°	146.6	146.2	145.8	146.2	146.6	146.7	147.2	147.9	148.3	149.1	150.8
170°	148.1	147.7	147.3	147.7	148.1	148.2	148.2	148.3	148.3	149.1	150.8
172.5°	148.3	148.2	148.1	148.2	148.3	148.3	148.3	148.3	148.3	149.0	150.3
175°	149.2	149.2	149.2	149.2	149.2	149.2	148.9	148.5	148.3	148.7	149.6
177.5°	149.2	149.2	149.2	149.2	149.2	149.2	149.0	148.7	148.5	148.8	149.5
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



TEST NUMBER: P934114
 CATALOG NUMBER: SQ4-FA-025U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8
2.5°	1726.2	1721.1	1727.9	1709.2	1727.9	1721.1	1726.2	1738.0	1727.9	1734.6	1741.4
5°	1514.6	1506.2	1479.1	1457.1	1479.1	1506.2	1514.6	1550.2	1567.1	1597.6	1638.2
7.5°	1353.9	1347.1	1340.3	1326.8	1340.3	1347.1	1353.9	1364.0	1380.9	1408.0	1438.5
10°	1318.3	1320.0	1330.2	1328.5	1330.2	1320.0	1318.3	1314.9	1309.9	1314.9	1333.5
12.5°	1409.7	1424.9	1480.8	1477.4	1480.8	1424.9	1409.7	1342.0	1296.3	1287.9	1291.2
15°	1514.6	1519.7	1531.6	1533.2	1531.6	1519.7	1514.6	1487.6	1350.5	1291.2	1272.6
17.5°	1524.8	1526.5	1534.9	1534.9	1534.9	1526.5	1524.8	1512.9	1467.2	1387.7	1282.8
20°	1516.3	1519.7	1536.6	1540.0	1536.6	1519.7	1516.3	1501.1	1475.7	1446.9	1367.4
22.5°	1512.9	1519.7	1533.2	1531.6	1533.2	1519.7	1512.9	1489.2	1467.2	1446.9	1414.8
25°	1496.0	1496.0	1497.7	1499.4	1497.7	1496.0	1496.0	1477.4	1433.4	1428.3	1409.7
27.5°	1460.5	1463.9	1474.0	1472.3	1474.0	1463.9	1460.5	1453.7	1406.3	1401.2	1387.7
30°	1428.3	1424.9	1416.5	1409.7	1416.5	1424.9	1428.3	1418.2	1370.8	1357.2	1360.6
32.5°	1374.2	1365.7	1357.2	1352.2	1357.2	1365.7	1374.2	1370.8	1335.2	1316.6	1320.0
35°	1309.9	1311.5	1309.9	1304.8	1309.9	1311.5	1309.9	1313.2	1291.2	1274.3	1272.6
37.5°	1264.2	1267.5	1265.9	1259.1	1265.9	1267.5	1264.2	1260.8	1230.3	1225.2	1228.6
40°	1216.8	1218.5	1216.8	1211.7	1216.8	1218.5	1216.8	1210.0	1167.7	1169.4	1181.2
42.5°	1171.1	1169.4	1164.3	1160.9	1164.3	1169.4	1171.1	1160.9	1106.8	1101.7	1123.7
45°	1118.6	1120.3	1110.2	1105.1	1110.2	1120.3	1118.6	1111.9	1056.0	1042.5	1057.7
47.5°	1066.2	1066.2	1057.7	1052.6	1057.7	1066.2	1066.2	1057.7	998.5	984.9	993.4
50°	1010.3	1008.6	996.8	995.1	996.8	1008.6	1010.3	1005.2	942.6	930.8	930.8
52.5°	946.0	946.0	947.7	951.1	947.7	946.0	946.0	947.7	891.9	880.0	876.6
55°	890.2	891.9	903.7	907.1	903.7	891.9	890.2	890.2	839.4	827.5	820.8
57.5°	832.6	832.6	841.1	841.1	841.1	832.6	832.6	829.2	780.2	770.0	766.6
60°	766.6	770.0	776.8	775.1	776.8	770.0	766.6	763.2	720.9	714.2	702.3
62.5°	697.2	700.6	702.3	698.9	702.3	700.6	697.2	687.1	661.7	656.6	641.4
65°	624.5	627.9	629.5	626.2	629.5	627.9	624.5	619.4	600.8	592.3	578.8
67.5°	550.0	548.3	546.6	553.4	546.6	548.3	550.0	543.2	531.4	524.6	506.0
70°	473.8	473.8	472.2	475.5	472.2	473.8	473.8	468.8	462.0	456.9	440.0
72.5°	392.6	390.9	397.7	392.6	397.7	390.9	392.6	390.9	387.5	382.5	365.5
75°	313.1	316.5	313.1	318.2	313.1	316.5	313.1	314.8	313.1	309.7	297.8
77.5°	238.6	242.0	238.6	238.6	238.6	242.0	238.6	240.3	240.3	240.3	230.2
80°	169.2	167.5	167.5	165.8	167.5	167.5	169.2	169.2	170.9	167.5	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°	59.2	60.9	57.5	57.5	57.5	60.9	59.2	55.8	59.2	59.2	57.5
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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5
92.5°	19.0	18.2	15.2	12.2	15.2	18.2	19.0	27.0	37.6	42.9	37.7
95°	64.6	62.3	53.2	44.0	53.2	62.3	64.6	84.8	111.8	125.3	105.8
97.5°	149.1	144.7	127.3	109.9	127.3	144.7	149.1	161.9	179.0	187.5	155.0
100°	209.4	204.2	183.5	162.7	183.5	204.2	209.4	208.5	207.2	206.6	170.6
102.5°	260.9	256.4	238.6	220.8	238.6	256.4	260.9	244.6	222.9	212.0	175.5
105°	321.0	318.6	309.1	299.5	309.1	318.6	321.0	284.5	235.8	211.4	176.0
107.5°	352.3	352.9	355.2	357.5	355.2	352.9	352.3	301.3	233.4	199.4	168.2
110°	360.3	362.8	372.7	382.7	372.7	362.8	360.3	303.3	227.4	189.4	161.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	355.2	359.0	374.3	389.6	374.3	359.0	355.2	296.9	219.2	180.3	155.2
115°	337.8	343.1	364.4	385.6	364.4	343.1	337.8	281.7	206.8	169.4	148.3
117.5°	313.9	319.8	343.3	366.9	343.3	319.8	313.9	263.2	195.7	161.9	143.9
120°	297.8	303.5	326.4	349.2	326.4	303.5	297.8	251.5	189.7	158.8	142.4
122.5°	281.6	287.2	309.8	332.4	309.8	287.2	281.6	239.9	184.3	156.5	141.6
125°	260.3	265.5	286.3	307.1	286.3	265.5	260.3	224.9	177.6	154.0	141.0
127.5°	243.2	247.6	265.1	282.6	265.1	247.6	243.2	212.8	172.2	151.9	140.6
130°	232.4	236.4	252.6	268.8	252.6	236.4	232.4	205.3	169.2	151.1	140.9
132.5°	223.2	226.8	241.3	255.8	241.3	226.8	223.2	198.9	166.6	150.4	141.0
135°	210.1	213.2	225.8	238.3	225.8	213.2	210.1	189.8	162.7	149.2	140.9
137.5°	200.5	203.1	213.3	223.6	213.3	203.1	200.5	183.3	160.4	149.0	141.7
140°	192.8	195.2	204.7	214.3	204.7	195.2	192.8	178.0	158.2	148.3	141.9
142.5°	187.4	189.5	197.7	205.9	197.7	189.5	187.4	174.4	157.0	148.3	142.4
145°	179.3	180.9	187.1	193.3	187.1	180.9	179.3	168.6	154.4	147.3	142.4
147.5°	172.5	173.8	178.9	184.1	178.9	173.8	172.5	164.1	152.9	147.3	143.4
150°	168.6	169.6	173.8	178.0	173.8	169.6	168.6	161.5	152.0	147.3	143.9
152.5°	165.5	166.3	169.4	172.6	169.4	166.3	165.5	159.4	151.3	147.3	144.2
155°	161.8	162.3	164.4	166.5	164.4	162.3	161.8	157.0	150.5	147.3	144.9
157.5°	158.5	158.9	160.4	161.9	160.4	158.9	158.5	154.8	149.8	147.3	145.7
160°	156.9	157.1	158.0	158.8	158.0	157.1	156.9	153.7	149.4	147.3	146.0
162.5°	155.4	155.6	156.4	157.2	156.4	155.6	155.4	152.7	149.1	147.3	146.4
165°	153.1	153.3	154.2	155.0	154.2	153.3	153.1	151.2	148.6	147.3	146.9
167.5°	152.1	152.2	152.5	152.9	152.5	152.2	152.1	150.8	149.1	148.3	147.9
170°	152.1	152.1	152.1	152.1	152.1	152.1	152.1	150.8	149.1	148.3	148.3
172.5°	151.3	151.2	150.9	150.6	150.9	151.2	151.3	150.3	149.0	148.3	148.3
175°	150.2	150.2	150.2	150.2	150.2	150.2	150.2	149.6	148.7	148.3	148.5
177.5°	150.0	149.9	149.6	149.2	149.6	149.9	150.0	149.5	148.8	148.5	148.7
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1788.8	1788.8	1788.8	1788.8	1788.8
2.5°	1766.8	1775.2	1780.3	1787.1	1804.0
5°	1699.1	1731.2	1741.4	1766.8	1797.2
7.5°	1550.2	1648.3	1675.4	1736.3	1783.7
10°	1406.3	1504.5	1551.9	1695.7	1766.8
12.5°	1333.5	1391.1	1423.2	1624.6	1743.1
15°	1287.9	1328.5	1352.2	1529.9	1716.0
17.5°	1252.3	1281.1	1298.0	1436.8	1678.8
20°	1230.3	1243.9	1259.1	1369.1	1636.5
22.5°	1215.1	1206.6	1218.5	1321.7	1578.9
25°	1204.9	1172.8	1186.3	1284.5	1511.2
27.5°	1213.4	1142.3	1147.4	1250.6	1440.2
30°	1215.1	1105.1	1106.8	1215.1	1360.6
32.5°	1203.2	1066.2	1067.9	1171.1	1270.9
35°	1174.5	1020.5	1018.8	1120.3	1149.1
37.5°	1135.5	971.4	971.4	1064.5	1015.4
40°	1088.2	922.3	927.4	991.7	896.9
42.5°	1030.6	869.9	876.6	895.2	808.9
45°	968.0	819.1	824.2	756.5	741.2
47.5°	898.6	766.6	768.3	627.9	719.2
50°	815.7	712.5	705.7	538.2	717.5
52.5°	742.9	653.2	632.9	487.4	651.5
55°	671.9	590.6	546.6	448.5	604.2
57.5°	609.2	509.4	467.1	402.8	594.0
60°	551.7	429.8	397.7	353.7	544.9
62.5°	504.3	370.6	363.8	319.8	494.2
65°	453.5	330.0	328.3	291.1	419.7
67.5°	404.5	302.9	301.2	264.0	319.8
70°	352.0	274.2	270.8	235.2	236.9
72.5°	297.8	242.0	238.6	211.5	196.3
75°	243.7	204.8	203.1	184.5	159.1
77.5°	191.2	162.5	165.8	148.9	116.8
80°	137.1	118.5	121.8	106.6	88.0
82.5°	91.4	77.8	81.2	67.7	59.2
85°	50.8	44.0	45.7	35.5	27.1
87.5°	23.7	20.3	20.3	13.5	8.5
90°	4.4	2.8	2.6	1.8	1.0
92.5°	27.2	19.3	17.6	10.8	4.0
95°	66.9	37.7	34.6	22.1	9.6
97.5°	90.1	41.4	38.6	27.6	16.6
100°	98.5	44.5	42.0	32.0	22.0
102.5°	102.4	47.6	45.3	35.9	26.6
105°	105.3	52.2	50.2	42.4	34.5
107.5°	105.8	59.0	57.2	49.8	42.5
110°	105.0	62.8	61.1	54.5	47.9



TEST NUMBER: P934114

CATALOG NUMBER: SQ4-FA-025U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	105.0	67.4	65.8	59.5	53.2
115°	106.0	74.3	72.8	67.0	61.2
117.5°	108.0	81.0	79.7	74.4	69.1
120°	109.5	84.9	83.7	78.7	73.7
122.5°	111.8	89.5	88.2	83.2	78.2
125°	115.0	95.5	94.3	89.7	85.1
127.5°	118.1	101.2	100.0	95.4	90.7
130°	120.4	105.0	103.7	98.7	93.7
132.5°	122.2	108.1	106.9	101.9	96.9
135°	124.2	111.7	110.6	106.0	101.5
137.5°	127.2	116.3	115.2	110.7	106.2
140°	129.0	119.4	118.4	114.2	110.1
142.5°	130.6	121.7	120.7	116.9	113.1
145°	132.6	125.2	124.4	121.0	117.7
147.5°	135.5	129.6	128.8	125.5	122.3
150°	137.0	131.9	131.2	128.2	125.3
152.5°	138.0	133.4	132.8	130.6	128.4
155°	140.2	136.7	136.3	134.6	133.0
157.5°	142.4	140.0	139.6	138.0	136.4
160°	143.4	141.5	141.2	139.9	138.7
162.5°	144.5	143.1	142.9	141.9	141.0
165°	146.0	145.4	145.2	144.3	143.5
167.5°	147.2	146.7	146.6	146.2	145.8
170°	148.2	148.2	148.1	147.7	147.3
172.5°	148.3	148.3	148.3	148.2	148.1
175°	148.9	149.2	149.2	149.2	149.2
177.5°	149.0	149.2	149.2	149.2	149.2
180°	149.2	149.2	149.2	149.2	149.2



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.16	18.42	17.78	19.05	19.76	19.96	21.22	20.58	21.85	22.56
	3H	17.67	18.80	18.30	19.44	20.19	21.33	22.46	21.96	23.09	23.84
	4H	17.88	18.95	18.53	19.60	20.36	21.78	22.85	22.43	23.50	24.26
	6H	18.02	19.01	18.68	19.67	20.44	22.08	23.07	22.74	23.73	24.50
	8H	18.03	18.97	18.71	19.65	20.43	22.16	23.10	22.83	23.78	24.56
	12H	18.02	18.91	18.70	19.59	20.39	22.21	23.11	22.89	23.78	24.59
4H	2H	18.24	19.30	18.89	19.95	20.71	20.42	21.49	21.07	22.14	22.90
	3H	19.30	20.19	19.96	20.88	21.66	21.95	22.84	22.62	23.53	24.31
	4H	19.59	20.40	20.27	21.09	21.90	22.49	23.30	23.17	23.99	24.80
	6H	19.74	20.44	20.44	21.16	21.98	22.87	23.57	23.57	24.29	25.11
	8H	19.76	20.41	20.46	21.12	21.96	22.98	23.64	23.69	24.35	25.18
	12H	19.74	20.33	20.47	21.07	21.91	23.05	23.64	23.78	24.38	25.22
8H	4H	20.07	20.73	20.78	21.44	22.27	22.65	23.30	23.35	24.02	24.85
	6H	20.35	20.89	21.09	21.65	22.48	23.09	23.63	23.83	24.39	25.23
	8H	20.40	20.88	21.15	21.64	22.49	23.24	23.73	23.99	24.49	25.34
	12H	20.40	20.83	21.15	21.57	22.49	23.35	23.78	24.10	24.53	25.44
12H	4H	20.10	20.68	20.82	21.42	22.26	22.63	23.22	23.36	23.96	24.80
	6H	20.41	20.90	21.16	21.66	22.51	23.09	23.58	23.84	24.34	25.19
	8H	20.50	20.92	21.25	21.67	22.59	23.27	23.69	24.02	24.44	25.35