

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: P934423

Luminaire Tested: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934423
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

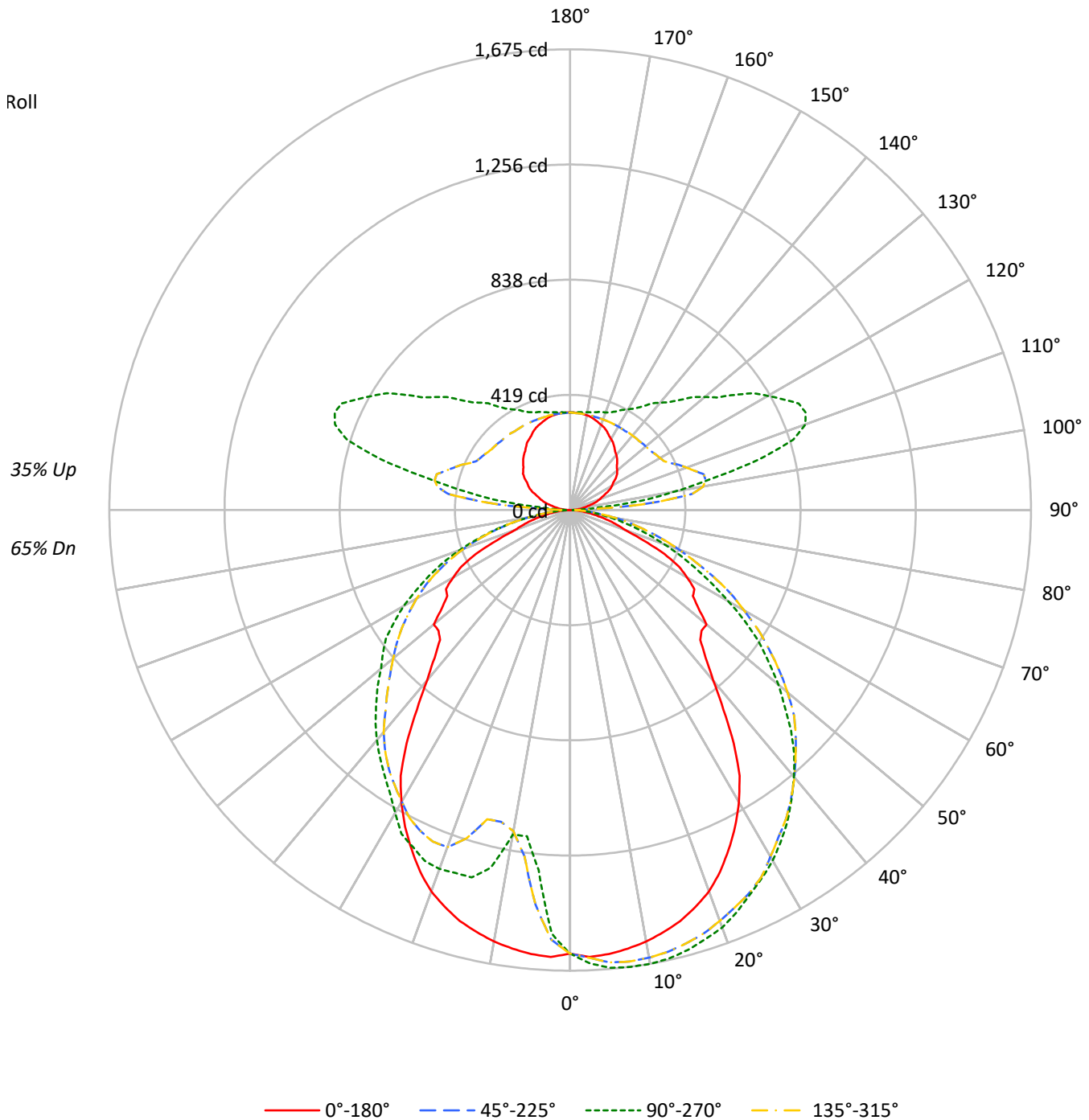
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6482.6 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9977	9977	9977	9977
5°	10048	10071	10048	7920
10°	9978	9921	9978	7093
15°	9865	9706	9865	8105
20°	9656	9452	9656	8121
25°	9229	9080	9229	7950
30°	8680	8772	8680	7572
35°	7734	8381	7734	7157
40°	6441	7923	6441	6843
45°	5752	7386	5752	6482
50°	6105	6745	6105	6120
55°	5739	6054	5739	5911
60°	5908	5141	5908	5414
65°	5349	4250	5349	4751
70°	3694	3387	3694	3982
75°	3229	2503	3229	2999
80°	2581	1656	2581	1802
85°	1455	878	1455	745

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8820 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	2.2
10°-20°	413.4	6.4
20°-30°	639.0	9.9
30°-40°	762.8	11.8
40°-50°	767.3	11.8
50°-60°	667.6	10.3
60°-70°	473.4	7.3
70°-80°	250.4	3.9
80°-90°	63.7	1.0
90°-100°	172.9	2.7
100°-110°	454.6	7.0
110°-120°	471.3	7.3
120°-130°	378.1	5.8
130°-140°	296.6	4.6
140°-150°	227.7	3.5
150°-160°	164.0	2.5
160°-170°	100.3	1.5
170°-180°	33.9	0.5
0°-30°	1198.0	18.5
0°-40°	1960.8	30.2
0°-60°	3395.7	52.4
0°-90°	4183.2	64.5
90°-120°	1098.8	17.0
90°-150°	2001.2	30.9
90°-180°	2299.0	35.5
0°-180°	6482.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1613	1613	1613	1613	1613	
5°	1620	1671	1620	1314	1620	154
15°	1547	1656	1547	1382	1547	435
25°	1363	1544	1363	1352	1363	626
35°	1036	1378	1036	1176	1036	641
45°	668	1135	668	996	668	535
55°	545	838	545	818	545	501
65°	378	505	378	565	378	362
75°	144	240	144	287	144	151
85°	24	61	24	52	24	33
90°	2	9	2	9	2	3
95°	23	104	23	104	23	25
105°	82	712	82	712	82	87
115°	146	916	146	916	146	144
125°	202	730	202	730	202	180
135°	241	566	241	566	241	187
145°	280	460	280	460	280	175
155°	316	396	316	396	316	145
165°	341	368	341	368	341	96
175°	355	357	355	357	355	34
180°	355	355	355	355	355	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1626.6	1626.6	1635.8	1638.8	1638.8	1634.2	1629.6	1634.2	1648.0	1652.6	1651.0
5°	1620.5	1632.7	1649.5	1652.6	1655.6	1654.0	1651.0	1654.0	1669.3	1672.4	1673.9
7.5°	1608.3	1631.2	1652.6	1657.1	1661.7	1657.1	1655.6	1658.7	1673.9	1677.0	1677.0
10°	1593.1	1625.1	1649.5	1652.6	1657.1	1652.6	1652.6	1658.7	1673.9	1677.0	1678.4
12.5°	1571.6	1615.9	1638.8	1641.9	1648.0	1646.4	1644.9	1651.0	1666.3	1669.3	1669.3
15°	1547.2	1599.1	1620.5	1623.5	1634.2	1631.2	1631.2	1637.3	1654.0	1658.7	1657.1
17.5°	1513.7	1577.7	1602.2	1606.8	1614.4	1612.8	1614.4	1620.5	1635.8	1638.8	1640.3
20°	1475.6	1548.8	1577.7	1582.4	1590.0	1590.0	1590.0	1597.6	1612.8	1619.0	1619.0
22.5°	1423.7	1518.3	1548.8	1551.9	1561.0	1561.0	1564.0	1574.7	1588.4	1590.0	1590.0
25°	1362.6	1484.7	1510.7	1519.7	1528.9	1533.5	1538.1	1544.2	1548.8	1547.2	1548.8
27.5°	1298.5	1442.0	1475.6	1481.6	1493.9	1498.4	1504.5	1506.0	1507.6	1512.1	1509.1
30°	1226.8	1382.5	1432.8	1438.9	1458.8	1461.8	1455.7	1458.8	1466.4	1469.5	1472.5
32.5°	1145.9	1294.0	1388.5	1402.3	1420.6	1411.4	1409.9	1414.5	1426.7	1426.7	1429.7
35°	1036.1	1225.3	1347.3	1359.6	1373.3	1362.6	1368.8	1370.2	1377.8	1382.5	1380.9
37.5°	915.5	1165.8	1304.6	1313.8	1324.5	1310.8	1319.9	1324.5	1330.6	1327.6	1327.6
40°	808.7	1072.7	1254.3	1260.4	1269.6	1258.9	1268.0	1271.0	1274.1	1271.0	1269.6
42.5°	729.3	970.4	1200.9	1208.5	1202.4	1210.1	1213.1	1219.2	1214.6	1208.5	1208.5
45°	668.4	943.0	1142.9	1152.1	1142.9	1155.1	1159.7	1159.7	1145.9	1142.9	1141.4
47.5°	648.5	888.0	1084.9	1084.9	1080.3	1095.6	1103.2	1092.6	1078.8	1074.2	1074.2
50°	647.0	827.1	1005.5	999.5	1020.8	1039.1	1031.5	1020.8	1010.2	993.4	993.4
52.5°	587.4	752.3	903.3	926.2	959.8	970.4	958.3	947.6	929.2	921.6	915.5
55°	544.8	674.4	810.3	856.0	891.1	904.8	882.0	871.3	843.8	839.2	836.2
57.5°	535.6	561.6	724.8	782.8	825.5	824.0	810.3	790.4	767.5	762.9	761.5
60°	491.3	405.9	633.2	701.9	746.1	741.6	729.3	711.1	689.7	686.7	683.6
62.5°	445.5	294.5	529.5	607.3	669.9	668.4	657.7	630.2	614.9	607.3	601.2
65°	378.5	247.2	376.9	505.0	595.1	598.1	575.3	555.4	538.6	529.5	528.0
67.5°	288.4	201.4	254.8	421.1	523.4	520.4	491.3	482.2	460.8	456.2	447.1
70°	213.6	134.3	177.0	341.8	453.2	445.5	422.7	412.0	392.2	381.5	375.4
72.5°	177.0	108.3	129.7	265.5	381.5	372.3	352.5	340.3	323.5	314.3	308.2
75°	143.5	114.4	99.2	196.8	309.8	303.7	285.4	273.1	259.4	247.2	248.7
77.5°	105.3	106.8	79.3	145.0	245.6	236.5	225.8	210.6	204.4	192.3	192.3
80°	79.3	83.9	59.5	99.2	177.0	177.0	167.9	157.2	146.5	140.4	140.4
82.5°	53.4	53.4	44.3	62.5	120.6	116.0	109.9	106.8	100.7	97.6	97.6
85°	24.4	30.5	27.5	38.1	65.6	68.7	68.7	65.6	64.1	61.1	62.5
87.5°	7.6	13.7	16.8	21.3	33.6	35.1	36.7	36.7	36.7	38.1	38.1
90°	2.4	4.3	6.2	6.7	10.5	15.6	18.1	16.1	12.0	9.0	9.0
92.5°	9.5	25.7	41.9	46.0	64.6	89.5	101.9	89.2	64.1	45.2	43.4
95°	22.9	52.4	82.1	89.5	158.9	251.6	297.8	265.8	201.7	153.5	148.1
97.5°	39.5	65.7	91.8	98.3	214.1	368.5	445.7	425.4	384.8	354.4	344.0
100°	52.4	76.1	99.8	105.7	234.2	405.5	491.1	492.6	495.6	497.8	485.5
102.5°	63.3	85.5	107.6	113.1	243.4	417.1	504.0	529.8	581.4	620.2	609.6
105°	81.9	100.6	119.4	124.0	250.2	418.4	502.5	560.4	676.1	763.0	757.3
107.5°	100.9	118.4	135.8	140.2	251.5	399.8	473.9	554.6	716.1	837.2	838.6
110°	113.8	129.5	145.3	149.2	249.6	383.3	450.1	540.4	721.0	856.3	862.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	126.4	141.4	156.5	160.2	249.6	368.9	428.5	520.9	705.6	844.2	853.2
115°	145.5	159.3	173.2	176.6	251.9	352.4	402.6	491.6	669.5	803.0	815.6
117.5°	164.2	176.9	189.4	192.6	256.6	342.0	384.7	465.0	625.6	746.1	760.1
120°	175.2	187.0	198.9	201.9	260.4	338.5	377.5	450.9	597.7	707.7	721.3
122.5°	186.0	197.9	209.8	212.8	265.9	336.6	372.1	438.1	570.3	669.4	682.8
125°	202.4	213.2	224.1	226.8	273.3	335.2	366.1	422.3	534.5	618.7	631.0
127.5°	215.7	226.7	237.7	240.5	280.7	334.3	361.1	409.3	505.7	578.0	588.4
130°	222.8	234.7	246.6	249.5	286.1	334.8	359.2	402.1	487.9	552.3	561.9
132.5°	230.2	242.1	253.9	256.9	290.4	335.2	357.6	396.0	472.8	530.4	539.0
135°	241.2	251.9	262.7	265.4	295.2	334.9	354.7	386.9	451.2	499.4	506.9
137.5°	252.3	263.0	273.7	276.4	302.3	336.9	354.2	381.4	435.7	476.6	482.6
140°	261.6	271.5	281.3	283.7	306.7	337.3	352.6	376.1	423.0	458.2	463.9
142.5°	268.7	277.8	286.9	289.2	310.3	338.5	352.6	373.2	414.4	445.4	450.3
145°	279.7	287.7	295.6	297.6	315.2	338.5	350.2	367.1	400.8	426.1	429.8
147.5°	290.7	298.4	306.2	308.1	322.1	340.8	350.2	363.4	390.0	409.9	413.0
150°	297.8	304.8	311.8	313.5	325.8	342.0	350.2	361.4	383.8	400.6	403.1
152.5°	305.2	310.5	315.8	317.1	328.1	342.8	350.2	359.7	378.9	393.2	395.1
155°	316.2	320.1	323.9	324.9	333.3	344.6	350.2	357.8	373.1	384.5	385.7
157.5°	324.2	328.0	331.9	332.8	338.6	346.3	350.2	356.1	368.0	376.8	377.7
160°	329.7	332.6	335.6	336.3	341.0	347.1	350.2	355.3	365.4	373.1	373.5
162.5°	335.2	337.4	339.6	340.2	343.5	348.0	350.2	354.5	363.1	369.4	369.9
165°	341.1	343.1	345.1	345.7	347.2	349.2	350.2	353.3	359.4	364.0	364.5
167.5°	346.6	347.5	348.5	348.7	350.0	351.7	352.6	354.6	358.6	361.6	361.8
170°	350.2	351.1	352.1	352.4	352.4	352.5	352.6	354.6	358.6	361.6	361.6
172.5°	352.1	352.4	352.5	352.6	352.6	352.6	352.6	354.1	357.3	359.7	359.5
175°	354.7	354.7	354.7	354.7	354.0	353.0	352.6	353.6	355.6	357.0	357.0
177.5°	354.7	354.7	354.7	354.7	354.2	353.4	353.0	353.8	355.4	356.6	356.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1654.0	1649.5	1654.0	1651.0	1652.6	1648.0	1634.2	1629.6	1634.2	1638.8	1638.8
5°	1673.9	1670.8	1673.9	1673.9	1672.4	1669.3	1654.0	1651.0	1654.0	1655.6	1652.6
7.5°	1680.0	1675.4	1680.0	1677.0	1677.0	1673.9	1658.7	1655.6	1657.1	1661.7	1657.1
10°	1680.0	1675.4	1680.0	1678.4	1677.0	1673.9	1658.7	1652.6	1652.6	1657.1	1652.6
12.5°	1672.4	1669.3	1672.4	1669.3	1669.3	1666.3	1651.0	1644.9	1646.4	1648.0	1641.9
15°	1660.2	1655.6	1660.2	1657.1	1658.7	1654.0	1637.3	1631.2	1631.2	1634.2	1623.5
17.5°	1641.9	1635.8	1641.9	1640.3	1638.8	1635.8	1620.5	1614.4	1612.8	1614.4	1606.8
20°	1620.5	1615.9	1620.5	1619.0	1619.0	1612.8	1597.6	1590.0	1590.0	1590.0	1582.4
22.5°	1586.9	1582.4	1586.9	1590.0	1590.0	1588.4	1574.7	1564.0	1561.0	1561.0	1551.9
25°	1548.8	1544.2	1548.8	1548.8	1547.2	1548.8	1544.2	1538.1	1533.5	1528.9	1519.7
27.5°	1512.1	1509.1	1512.1	1509.1	1512.1	1507.6	1506.0	1504.5	1498.4	1493.9	1481.6
30°	1475.6	1472.5	1475.6	1472.5	1469.5	1466.4	1458.8	1455.7	1461.8	1458.8	1438.9
32.5°	1429.7	1426.7	1429.7	1429.7	1426.7	1426.7	1414.5	1409.9	1411.4	1420.6	1402.3
35°	1382.5	1377.8	1382.5	1380.9	1382.5	1377.8	1370.2	1368.8	1362.6	1373.3	1359.6
37.5°	1327.6	1322.9	1327.6	1327.6	1327.6	1330.6	1324.5	1319.9	1310.8	1324.5	1313.8
40°	1271.0	1265.0	1271.0	1269.6	1271.0	1274.1	1271.0	1268.0	1258.9	1269.6	1260.4
42.5°	1207.0	1205.4	1207.0	1208.5	1208.5	1214.6	1219.2	1213.1	1210.1	1202.4	1208.5
45°	1138.3	1135.3	1138.3	1141.4	1142.9	1145.9	1159.7	1159.7	1155.1	1142.9	1152.1
47.5°	1065.1	1057.4	1065.1	1074.2	1074.2	1078.8	1092.6	1103.2	1095.6	1080.3	1084.9
50°	987.2	988.8	987.2	993.4	993.4	1010.2	1020.8	1031.5	1039.1	1020.8	999.5
52.5°	911.0	909.4	911.0	915.5	921.6	929.2	947.6	958.3	970.4	959.8	926.2
55°	834.7	837.7	834.7	836.2	839.2	843.8	871.3	882.0	904.8	891.1	856.0
57.5°	758.4	753.8	758.4	761.5	762.9	767.5	790.4	810.3	824.0	825.5	782.8
60°	669.9	663.7	669.9	683.6	686.7	689.7	711.1	729.3	741.6	746.1	701.9
62.5°	592.1	581.4	592.1	601.2	607.3	614.9	630.2	657.7	668.4	669.9	607.3
65°	509.7	505.0	509.7	528.0	529.5	538.6	555.4	575.3	598.1	595.1	505.0
67.5°	434.9	434.9	434.9	447.1	456.2	460.8	482.2	491.3	520.4	523.4	421.1
70°	366.2	364.7	366.2	375.4	381.5	392.2	412.0	422.7	445.5	453.2	341.8
72.5°	300.6	299.1	300.6	308.2	314.3	323.5	340.3	352.5	372.3	381.5	265.5
75°	242.6	239.5	242.6	248.7	247.2	259.4	273.1	285.4	303.7	309.8	196.8
77.5°	186.2	186.2	186.2	192.3	192.3	204.4	210.6	225.8	236.5	245.6	145.0
80°	138.8	137.4	138.8	140.4	140.4	146.5	157.2	167.9	177.0	177.0	99.2
82.5°	97.6	94.6	97.6	97.6	97.6	100.7	106.8	109.9	116.0	120.6	62.5
85°	61.1	61.1	61.1	62.5	61.1	64.1	65.6	68.7	68.7	65.6	38.1
87.5°	39.7	38.1	39.7	38.1	38.1	36.7	36.7	36.7	35.1	33.6	21.3
90°	9.0	9.0	9.0	9.0	9.0	12.0	16.1	18.1	15.6	10.5	6.7
92.5°	36.2	29.0	36.2	43.4	45.2	64.1	89.2	101.9	89.5	64.6	46.0
95°	126.3	104.5	126.3	148.1	153.5	201.7	265.8	297.8	251.6	158.9	89.5
97.5°	302.6	261.2	302.6	344.0	354.4	384.8	425.4	445.7	368.5	214.1	98.3
100°	436.1	386.6	436.1	485.5	497.8	495.6	492.6	491.1	405.5	234.2	105.7
102.5°	567.3	524.9	567.3	609.6	620.2	581.4	529.8	504.0	417.1	243.4	113.1
105°	734.6	711.8	734.6	757.3	763.0	676.1	560.4	502.5	418.4	250.2	124.0
107.5°	844.1	849.6	844.1	838.6	837.2	716.1	554.6	473.9	399.8	251.5	140.2
110°	885.9	909.6	885.9	862.2	856.3	721.0	540.4	450.1	383.3	249.6	149.2



TEST NUMBER: P934423

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	889.7	926.0	889.7	853.2	844.2	705.6	520.9	428.5	368.9	249.6	160.2
115°	866.0	916.5	866.0	815.6	803.0	669.5	491.6	402.6	352.4	251.9	176.6
117.5°	816.0	872.0	816.0	760.1	746.1	625.6	465.0	384.7	342.0	256.6	192.6
120°	775.7	830.1	775.7	721.3	707.7	597.7	450.9	377.5	338.5	260.4	201.9
122.5°	736.5	790.1	736.5	682.8	669.4	570.3	438.1	372.1	336.6	265.9	212.8
125°	680.4	729.9	680.4	631.0	618.7	534.5	422.3	366.1	335.2	273.3	226.8
127.5°	630.1	671.8	630.1	588.4	578.0	505.7	409.3	361.1	334.3	280.7	240.5
130°	600.4	638.9	600.4	561.9	552.3	487.9	402.1	359.2	334.8	286.1	249.5
132.5°	573.5	608.0	573.5	539.0	530.4	472.8	396.0	357.6	335.2	290.4	256.9
135°	536.6	566.3	536.6	506.9	499.4	451.2	386.9	354.7	334.9	295.2	265.4
137.5°	507.0	531.4	507.0	482.6	476.6	435.7	381.4	354.2	336.9	302.3	276.4
140°	486.6	509.4	486.6	463.9	458.2	423.0	376.1	352.6	337.3	306.7	283.7
142.5°	469.9	489.4	469.9	450.3	445.4	414.4	373.2	352.6	338.5	310.3	289.2
145°	444.7	459.5	444.7	429.8	426.1	400.8	367.1	350.2	338.5	315.2	297.6
147.5°	425.3	437.5	425.3	413.0	409.9	390.0	363.4	350.2	340.8	322.1	308.1
150°	413.1	423.0	413.1	403.1	400.6	383.8	361.4	350.2	342.0	325.8	313.5
152.5°	402.6	410.2	402.6	395.1	393.2	378.9	359.7	350.2	342.8	328.1	317.1
155°	390.7	395.6	390.7	385.7	384.5	373.1	357.8	350.2	344.6	333.3	324.9
157.5°	381.2	384.7	381.2	377.7	376.8	368.0	356.1	350.2	346.3	338.6	332.8
160°	375.5	377.5	375.5	373.5	373.1	365.4	355.3	350.2	347.1	341.0	336.3
162.5°	371.8	373.8	371.8	369.9	369.4	363.1	354.5	350.2	348.0	343.5	340.2
165°	366.5	368.5	366.5	364.5	364.0	359.4	353.3	350.2	349.2	347.2	345.7
167.5°	362.7	363.5	362.7	361.8	361.6	358.6	354.6	352.6	351.7	350.0	348.7
170°	361.6	361.6	361.6	361.6	361.6	358.6	354.6	352.6	352.5	352.4	352.4
172.5°	358.7	358.0	358.7	359.5	359.7	357.3	354.1	352.6	352.6	352.6	352.6
175°	357.0	357.0	357.0	357.0	357.0	355.6	353.6	352.6	353.0	354.0	354.7
177.5°	355.6	354.7	355.6	356.4	356.6	355.4	353.8	353.0	353.4	354.2	354.7
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934423

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1635.8	1626.6	1626.6	1611.3	1605.2	1600.7	1593.1	1570.1	1564.0	1557.9	1567.1
5°	1649.5	1632.7	1620.5	1593.1	1570.1	1561.0	1532.0	1477.1	1440.4	1413.0	1397.7
7.5°	1652.6	1631.2	1608.3	1565.6	1510.7	1486.2	1397.7	1297.0	1269.6	1245.1	1229.8
10°	1649.5	1625.1	1593.1	1528.9	1399.2	1356.5	1268.0	1202.4	1185.6	1181.0	1185.6
12.5°	1638.8	1615.9	1571.6	1464.8	1283.3	1254.3	1202.4	1164.2	1161.2	1168.9	1210.1
15°	1620.5	1599.1	1547.2	1379.4	1219.2	1197.8	1161.2	1147.5	1164.2	1217.7	1341.3
17.5°	1602.2	1577.7	1513.7	1295.4	1170.3	1155.1	1129.1	1156.6	1251.2	1322.9	1364.1
20°	1577.7	1548.8	1475.6	1234.5	1135.3	1121.5	1109.3	1232.9	1304.6	1330.6	1353.4
22.5°	1548.8	1518.3	1423.7	1191.7	1098.6	1087.9	1095.6	1275.7	1304.6	1322.9	1342.8
25°	1510.7	1484.7	1362.6	1158.2	1069.7	1057.4	1086.5	1271.0	1287.8	1292.4	1332.1
27.5°	1475.6	1442.0	1298.5	1127.7	1034.6	1030.0	1094.1	1251.2	1263.4	1268.0	1310.8
30°	1432.8	1382.5	1226.8	1095.6	997.9	996.4	1095.6	1226.8	1223.8	1236.0	1278.7
32.5°	1388.5	1294.0	1145.9	1055.9	962.8	961.3	1084.9	1190.2	1187.1	1203.9	1236.0
35°	1347.3	1225.3	1036.1	1010.2	918.6	920.1	1059.0	1147.5	1149.0	1164.2	1184.1
37.5°	1304.6	1165.8	915.5	959.8	875.9	875.9	1023.9	1107.8	1104.7	1109.3	1136.8
40°	1254.3	1072.7	808.7	894.2	836.2	831.6	981.1	1065.1	1054.4	1052.9	1091.0
42.5°	1200.9	970.4	729.3	807.2	790.4	784.3	929.2	1013.2	993.4	997.9	1046.7
45°	1142.9	943.0	668.4	682.1	743.1	738.5	872.8	953.6	939.9	952.2	1002.5
47.5°	1084.9	888.0	648.5	566.1	692.8	691.2	810.3	895.7	888.0	900.3	953.6
50°	1005.5	827.1	647.0	485.3	636.3	642.4	735.5	839.2	839.2	849.9	906.4
52.5°	903.3	752.3	587.4	439.4	570.6	589.0	669.9	790.4	793.5	804.1	854.5
55°	810.3	674.4	544.8	404.3	492.9	532.5	605.8	740.0	746.1	756.8	802.6
57.5°	724.8	561.6	535.6	363.1	421.1	459.3	549.3	691.2	694.3	703.5	747.7
60°	633.2	405.9	491.3	318.9	358.6	387.5	497.4	633.2	644.0	650.0	688.1
62.5°	529.5	294.5	445.5	288.4	328.1	334.2	454.7	578.3	592.1	596.6	619.5
65°	376.9	247.2	378.5	262.4	296.0	297.5	408.9	521.8	534.1	541.7	558.5
67.5°	254.8	201.4	288.4	238.0	271.6	273.1	364.7	456.2	473.0	479.1	489.8
70°	177.0	134.3	213.6	212.1	244.2	247.2	317.4	396.7	412.0	416.6	422.7
72.5°	129.7	108.3	177.0	190.7	215.1	218.2	268.6	329.6	344.9	349.4	352.5
75°	99.2	114.4	143.5	166.3	183.1	184.6	219.8	268.6	279.2	282.3	283.8
77.5°	79.3	106.8	105.3	134.3	149.5	146.5	172.4	207.5	216.7	216.7	216.7
80°	59.5	83.9	79.3	96.1	109.9	106.8	123.6	148.0	151.1	154.1	152.6
82.5°	44.3	53.4	53.4	61.1	73.2	70.2	82.4	96.1	96.1	96.1	99.2
85°	27.5	30.5	24.4	32.0	41.2	39.7	45.8	51.9	53.4	53.4	50.4
87.5°	16.8	13.7	7.6	12.2	18.3	18.3	21.3	22.9	21.3	21.3	21.3
90°	6.2	4.3	2.4	4.3	6.2	6.7	10.5	15.6	18.1	16.1	12.0
92.5°	41.9	25.7	9.5	25.7	41.9	46.0	64.6	89.5	101.9	89.2	64.1
95°	82.1	52.4	22.9	52.4	82.1	89.5	158.9	251.6	297.8	265.8	201.7
97.5°	91.8	65.7	39.5	65.7	91.8	98.3	214.1	368.5	445.7	425.4	384.8
100°	99.8	76.1	52.4	76.1	99.8	105.7	234.2	405.5	491.1	492.6	495.6
102.5°	107.6	85.5	63.3	85.5	107.6	113.1	243.4	417.1	504.0	529.8	581.4
105°	119.4	100.6	81.9	100.6	119.4	124.0	250.2	418.4	502.5	560.4	676.1
107.5°	135.8	118.4	100.9	118.4	135.8	140.2	251.5	399.8	473.9	554.6	716.1
110°	145.3	129.5	113.8	129.5	145.3	149.2	249.6	383.3	450.1	540.4	721.0



TEST NUMBER: P934423

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	156.5	141.4	126.4	141.4	156.5	160.2	249.6	368.9	428.5	520.9	705.6
115°	173.2	159.3	145.5	159.3	173.2	176.6	251.9	352.4	402.6	491.6	669.5
117.5°	189.4	176.9	164.2	176.9	189.4	192.6	256.6	342.0	384.7	465.0	625.6
120°	198.9	187.0	175.2	187.0	198.9	201.9	260.4	338.5	377.5	450.9	597.7
122.5°	209.8	197.9	186.0	197.9	209.8	212.8	265.9	336.6	372.1	438.1	570.3
125°	224.1	213.2	202.4	213.2	224.1	226.8	273.3	335.2	366.1	422.3	534.5
127.5°	237.7	226.7	215.7	226.7	237.7	240.5	280.7	334.3	361.1	409.3	505.7
130°	246.6	234.7	222.8	234.7	246.6	249.5	286.1	334.8	359.2	402.1	487.9
132.5°	253.9	242.1	230.2	242.1	253.9	256.9	290.4	335.2	357.6	396.0	472.8
135°	262.7	251.9	241.2	251.9	262.7	265.4	295.2	334.9	354.7	386.9	451.2
137.5°	273.7	263.0	252.3	263.0	273.7	276.4	302.3	336.9	354.2	381.4	435.7
140°	281.3	271.5	261.6	271.5	281.3	283.7	306.7	337.3	352.6	376.1	423.0
142.5°	286.9	277.8	268.7	277.8	286.9	289.2	310.3	338.5	352.6	373.2	414.4
145°	295.6	287.7	279.7	287.7	295.6	297.6	315.2	338.5	350.2	367.1	400.8
147.5°	306.2	298.4	290.7	298.4	306.2	308.1	322.1	340.8	350.2	363.4	390.0
150°	311.8	304.8	297.8	304.8	311.8	313.5	325.8	342.0	350.2	361.4	383.8
152.5°	315.8	310.5	305.2	310.5	315.8	317.1	328.1	342.8	350.2	359.7	378.9
155°	323.9	320.1	316.2	320.1	323.9	324.9	333.3	344.6	350.2	357.8	373.1
157.5°	331.9	328.0	324.2	328.0	331.9	332.8	338.6	346.3	350.2	356.1	368.0
160°	335.6	332.6	329.7	332.6	335.6	336.3	341.0	347.1	350.2	355.3	365.4
162.5°	339.6	337.4	335.2	337.4	339.6	340.2	343.5	348.0	350.2	354.5	363.1
165°	345.1	343.1	341.1	343.1	345.1	345.7	347.2	349.2	350.2	353.3	359.4
167.5°	348.5	347.5	346.6	347.5	348.5	348.7	350.0	351.7	352.6	354.6	358.6
170°	352.1	351.1	350.2	351.1	352.1	352.4	352.4	352.5	352.6	354.6	358.6
172.5°	352.5	352.4	352.1	352.4	352.5	352.6	352.6	352.6	352.6	354.1	357.3
175°	354.7	354.7	354.7	354.7	354.7	354.7	354.0	353.0	352.6	353.6	355.6
177.5°	354.7	354.7	354.7	354.7	354.7	354.7	354.2	353.4	353.0	353.8	355.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934423
 CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1556.4	1551.9	1557.9	1541.2	1557.9	1551.9	1556.4	1567.1	1557.9	1564.0	1570.1
5°	1365.7	1358.0	1333.6	1313.8	1333.6	1358.0	1365.7	1397.7	1413.0	1440.4	1477.1
7.5°	1220.7	1214.6	1208.5	1196.3	1208.5	1214.6	1220.7	1229.8	1245.1	1269.6	1297.0
10°	1188.6	1190.2	1199.4	1197.8	1199.4	1190.2	1188.6	1185.6	1181.0	1185.6	1202.4
12.5°	1271.0	1284.8	1335.2	1332.1	1335.2	1284.8	1271.0	1210.1	1168.9	1161.2	1164.2
15°	1365.7	1370.2	1380.9	1382.5	1380.9	1370.2	1365.7	1341.3	1217.7	1164.2	1147.5
17.5°	1374.8	1376.4	1384.0	1384.0	1384.0	1376.4	1374.8	1364.1	1322.9	1251.2	1156.6
20°	1367.2	1370.2	1385.5	1388.5	1385.5	1370.2	1367.2	1353.4	1330.6	1304.6	1232.9
22.5°	1364.1	1370.2	1382.5	1380.9	1382.5	1370.2	1364.1	1342.8	1322.9	1304.6	1275.7
25°	1348.9	1348.9	1350.4	1352.0	1350.4	1348.9	1348.9	1332.1	1292.4	1287.8	1271.0
27.5°	1316.9	1319.9	1329.0	1327.6	1329.0	1319.9	1316.9	1310.8	1268.0	1263.4	1251.2
30°	1287.8	1284.8	1277.2	1271.0	1277.2	1284.8	1287.8	1278.7	1236.0	1223.8	1226.8
32.5°	1239.0	1231.4	1223.8	1219.2	1223.8	1231.4	1239.0	1236.0	1203.9	1187.1	1190.2
35°	1181.0	1182.6	1181.0	1176.5	1181.0	1182.6	1181.0	1184.1	1164.2	1149.0	1147.5
37.5°	1139.8	1142.9	1141.4	1135.3	1141.4	1142.9	1139.8	1136.8	1109.3	1104.7	1107.8
40°	1097.1	1098.6	1097.1	1092.6	1097.1	1098.6	1097.1	1091.0	1052.9	1054.4	1065.1
42.5°	1055.9	1054.4	1049.8	1046.7	1049.8	1054.4	1055.9	1046.7	997.9	993.4	1013.2
45°	1008.6	1010.2	1001.0	996.4	1001.0	1010.2	1008.6	1002.5	952.2	939.9	953.6
47.5°	961.3	961.3	953.6	949.1	953.6	961.3	961.3	953.6	900.3	888.0	895.7
50°	911.0	909.4	898.7	897.2	898.7	909.4	911.0	906.4	849.9	839.2	839.2
52.5°	853.0	853.0	854.5	857.5	854.5	853.0	853.0	854.5	804.1	793.5	790.4
55°	802.6	804.1	814.8	817.9	814.8	804.1	802.6	802.6	756.8	746.1	740.0
57.5°	750.8	750.8	758.4	758.4	758.4	750.8	750.8	747.7	703.5	694.3	691.2
60°	691.2	694.3	700.4	698.9	700.4	694.3	691.2	688.1	650.0	644.0	633.2
62.5°	628.6	631.7	633.2	630.2	633.2	631.7	628.6	619.5	596.6	592.1	578.3
65°	563.0	566.1	567.6	564.6	567.6	566.1	563.0	558.5	541.7	534.1	521.8
67.5°	495.9	494.4	492.9	499.0	492.9	494.4	495.9	489.8	479.1	473.0	456.2
70°	427.3	427.3	425.7	428.7	425.7	427.3	427.3	422.7	416.6	412.0	396.7
72.5°	354.0	352.5	358.6	354.0	358.6	352.5	354.0	352.5	349.4	344.9	329.6
75°	282.3	285.4	282.3	286.9	282.3	285.4	282.3	283.8	282.3	279.2	268.6
77.5°	215.1	218.2	215.1	215.1	215.1	218.2	215.1	216.7	216.7	216.7	207.5
80°	152.6	151.1	151.1	149.5	151.1	151.1	152.6	152.6	154.1	151.1	148.0
82.5°	97.6	96.1	96.1	99.2	96.1	96.1	97.6	99.2	96.1	96.1	96.1
85°	53.4	54.9	51.9	51.9	51.9	54.9	53.4	50.4	53.4	53.4	51.9
87.5°	19.9	18.3	18.3	18.3	18.3	18.3	19.9	21.3	21.3	21.3	22.9
90°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	16.1	18.1	15.6
92.5°	45.2	43.4	36.2	29.0	36.2	43.4	45.2	64.1	89.2	101.9	89.5
95°	153.5	148.1	126.3	104.5	126.3	148.1	153.5	201.7	265.8	297.8	251.6
97.5°	354.4	344.0	302.6	261.2	302.6	344.0	354.4	384.8	425.4	445.7	368.5
100°	497.8	485.5	436.1	386.6	436.1	485.5	497.8	495.6	492.6	491.1	405.5
102.5°	620.2	609.6	567.3	524.9	567.3	609.6	620.2	581.4	529.8	504.0	417.1
105°	763.0	757.3	734.6	711.8	734.6	757.3	763.0	676.1	560.4	502.5	418.4
107.5°	837.2	838.6	844.1	849.6	844.1	838.6	837.2	716.1	554.6	473.9	399.8
110°	856.3	862.2	885.9	909.6	885.9	862.2	856.3	721.0	540.4	450.1	383.3



TEST NUMBER: P934423

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	844.2	853.2	889.7	926.0	889.7	853.2	844.2	705.6	520.9	428.5	368.9
115°	803.0	815.6	866.0	916.5	866.0	815.6	803.0	669.5	491.6	402.6	352.4
117.5°	746.1	760.1	816.0	872.0	816.0	760.1	746.1	625.6	465.0	384.7	342.0
120°	707.7	721.3	775.7	830.1	775.7	721.3	707.7	597.7	450.9	377.5	338.5
122.5°	669.4	682.8	736.5	790.1	736.5	682.8	669.4	570.3	438.1	372.1	336.6
125°	618.7	631.0	680.4	729.9	680.4	631.0	618.7	534.5	422.3	366.1	335.2
127.5°	578.0	588.4	630.1	671.8	630.1	588.4	578.0	505.7	409.3	361.1	334.3
130°	552.3	561.9	600.4	638.9	600.4	561.9	552.3	487.9	402.1	359.2	334.8
132.5°	530.4	539.0	573.5	608.0	573.5	539.0	530.4	472.8	396.0	357.6	335.2
135°	499.4	506.9	536.6	566.3	536.6	506.9	499.4	451.2	386.9	354.7	334.9
137.5°	476.6	482.6	507.0	531.4	507.0	482.6	476.6	435.7	381.4	354.2	336.9
140°	458.2	463.9	486.6	509.4	486.6	463.9	458.2	423.0	376.1	352.6	337.3
142.5°	445.4	450.3	469.9	489.4	469.9	450.3	445.4	414.4	373.2	352.6	338.5
145°	426.1	429.8	444.7	459.5	444.7	429.8	426.1	400.8	367.1	350.2	338.5
147.5°	409.9	413.0	425.3	437.5	425.3	413.0	409.9	390.0	363.4	350.2	340.8
150°	400.6	403.1	413.1	423.0	413.1	403.1	400.6	383.8	361.4	350.2	342.0
152.5°	393.2	395.1	402.6	410.2	402.6	395.1	393.2	378.9	359.7	350.2	342.8
155°	384.5	385.7	390.7	395.6	390.7	385.7	384.5	373.1	357.8	350.2	344.6
157.5°	376.8	377.7	381.2	384.7	381.2	377.7	376.8	368.0	356.1	350.2	346.3
160°	373.1	373.5	375.5	377.5	375.5	373.5	373.1	365.4	355.3	350.2	347.1
162.5°	369.4	369.9	371.8	373.8	371.8	369.9	369.4	363.1	354.5	350.2	348.0
165°	364.0	364.5	366.5	368.5	366.5	364.5	364.0	359.4	353.3	350.2	349.2
167.5°	361.6	361.8	362.7	363.5	362.7	361.8	361.6	358.6	354.6	352.6	351.7
170°	361.6	361.6	361.6	361.6	361.6	361.6	361.6	358.6	354.6	352.6	352.5
172.5°	359.7	359.5	358.7	358.0	358.7	359.5	359.7	357.3	354.1	352.6	352.6
175°	357.0	357.0	357.0	357.0	357.0	357.0	357.0	355.6	353.6	352.6	353.0
177.5°	356.6	356.4	355.6	354.7	355.6	356.4	356.6	355.4	353.8	353.0	353.4
180°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934423

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1593.1	1600.7	1605.2	1611.3	1626.6
5°	1532.0	1561.0	1570.1	1593.1	1620.5
7.5°	1397.7	1486.2	1510.7	1565.6	1608.3
10°	1268.0	1356.5	1399.2	1528.9	1593.1
12.5°	1202.4	1254.3	1283.3	1464.8	1571.6
15°	1161.2	1197.8	1219.2	1379.4	1547.2
17.5°	1129.1	1155.1	1170.3	1295.4	1513.7
20°	1109.3	1121.5	1135.3	1234.5	1475.6
22.5°	1095.6	1087.9	1098.6	1191.7	1423.7
25°	1086.5	1057.4	1069.7	1158.2	1362.6
27.5°	1094.1	1030.0	1034.6	1127.7	1298.5
30°	1095.6	996.4	997.9	1095.6	1226.8
32.5°	1084.9	961.3	962.8	1055.9	1145.9
35°	1059.0	920.1	918.6	1010.2	1036.1
37.5°	1023.9	875.9	875.9	959.8	915.5
40°	981.1	831.6	836.2	894.2	808.7
42.5°	929.2	784.3	790.4	807.2	729.3
45°	872.8	738.5	743.1	682.1	668.4
47.5°	810.3	691.2	692.8	566.1	648.5
50°	735.5	642.4	636.3	485.3	647.0
52.5°	669.9	589.0	570.6	439.4	587.4
55°	605.8	532.5	492.9	404.3	544.8
57.5°	549.3	459.3	421.1	363.1	535.6
60°	497.4	387.5	358.6	318.9	491.3
62.5°	454.7	334.2	328.1	288.4	445.5
65°	408.9	297.5	296.0	262.4	378.5
67.5°	364.7	273.1	271.6	238.0	288.4
70°	317.4	247.2	244.2	212.1	213.6
72.5°	268.6	218.2	215.1	190.7	177.0
75°	219.8	184.6	183.1	166.3	143.5
77.5°	172.4	146.5	149.5	134.3	105.3
80°	123.6	106.8	109.9	96.1	79.3
82.5°	82.4	70.2	73.2	61.1	53.4
85°	45.8	39.7	41.2	32.0	24.4
87.5°	21.3	18.3	18.3	12.2	7.6
90°	10.5	6.7	6.2	4.3	2.4
92.5°	64.6	46.0	41.9	25.7	9.5
95°	158.9	89.5	82.1	52.4	22.9
97.5°	214.1	98.3	91.8	65.7	39.5
100°	234.2	105.7	99.8	76.1	52.4
102.5°	243.4	113.1	107.6	85.5	63.3
105°	250.2	124.0	119.4	100.6	81.9
107.5°	251.5	140.2	135.8	118.4	100.9
110°	249.6	149.2	145.3	129.5	113.8



TEST NUMBER: P934423

CATALOG NUMBER: SQ4-FA-050U-100D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	249.6	160.2	156.5	141.4	126.4
115°	251.9	176.6	173.2	159.3	145.5
117.5°	256.6	192.6	189.4	176.9	164.2
120°	260.4	201.9	198.9	187.0	175.2
122.5°	265.9	212.8	209.8	197.9	186.0
125°	273.3	226.8	224.1	213.2	202.4
127.5°	280.7	240.5	237.7	226.7	215.7
130°	286.1	249.5	246.6	234.7	222.8
132.5°	290.4	256.9	253.9	242.1	230.2
135°	295.2	265.4	262.7	251.9	241.2
137.5°	302.3	276.4	273.7	263.0	252.3
140°	306.7	283.7	281.3	271.5	261.6
142.5°	310.3	289.2	286.9	277.8	268.7
145°	315.2	297.6	295.6	287.7	279.7
147.5°	322.1	308.1	306.2	298.4	290.7
150°	325.8	313.5	311.8	304.8	297.8
152.5°	328.1	317.1	315.8	310.5	305.2
155°	333.3	324.9	323.9	320.1	316.2
157.5°	338.6	332.8	331.9	328.0	324.2
160°	341.0	336.3	335.6	332.6	329.7
162.5°	343.5	340.2	339.6	337.4	335.2
165°	347.2	345.7	345.1	343.1	341.1
167.5°	350.0	348.7	348.5	347.5	346.6
170°	352.4	352.4	352.1	351.1	350.2
172.5°	352.6	352.6	352.5	352.4	352.1
175°	354.0	354.7	354.7	354.7	354.7
177.5°	354.2	354.7	354.7	354.7	354.7
180°	354.7	354.7	354.7	354.7	354.7



TEST NUMBER: P934423
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.04	15.05	14.86	15.89	16.94	16.86	17.87	17.68	18.72	19.76
	3H	14.53	15.43	15.36	16.28	17.36	18.22	19.12	19.05	19.98	21.05
	4H	14.72	15.58	15.57	16.44	17.53	18.67	19.52	19.52	20.38	21.47
	6H	14.85	15.64	15.71	16.51	17.61	18.96	19.75	19.82	20.61	21.71
	8H	14.86	15.61	15.73	16.49	17.59	19.04	19.79	19.91	20.67	21.77
	12H	14.83	15.55	15.71	16.43	17.55	19.08	19.79	19.96	20.67	21.80
4H	2H	15.09	15.94	15.94	16.80	17.89	17.29	18.14	18.15	19.01	20.09
	3H	16.13	16.84	16.99	17.73	18.83	18.81	19.52	19.67	20.41	21.51
	4H	16.41	17.06	17.29	17.95	19.08	19.34	19.99	20.22	20.88	22.01
	6H	16.54	17.10	17.44	18.02	19.15	19.71	20.27	20.61	21.19	22.32
	8H	16.55	17.08	17.45	17.98	19.13	19.82	20.35	20.72	21.25	22.40
	12H	16.53	17.00	17.44	17.93	19.08	19.88	20.36	20.80	21.28	22.43
8H	4H	16.87	17.40	17.77	18.31	19.45	19.48	20.00	20.37	20.91	22.05
	6H	17.14	17.58	18.07	18.53	19.67	19.92	20.35	20.84	21.30	22.45
	8H	17.19	17.57	18.12	18.51	19.67	20.07	20.45	21.01	21.40	22.56
	12H	17.18	17.51	18.11	18.45	19.66	20.17	20.51	21.11	21.45	22.66
12H	4H	16.89	17.36	17.81	18.29	19.44	19.45	19.92	20.37	20.85	22.00
	6H	17.20	17.59	18.14	18.53	19.69	19.92	20.30	20.85	21.24	22.40
	8H	17.28	17.62	18.22	18.55	19.76	20.08	20.42	21.02	21.36	22.57