

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: P935406

Luminaire Tested: SQ4-FA-100U-125D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935406
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

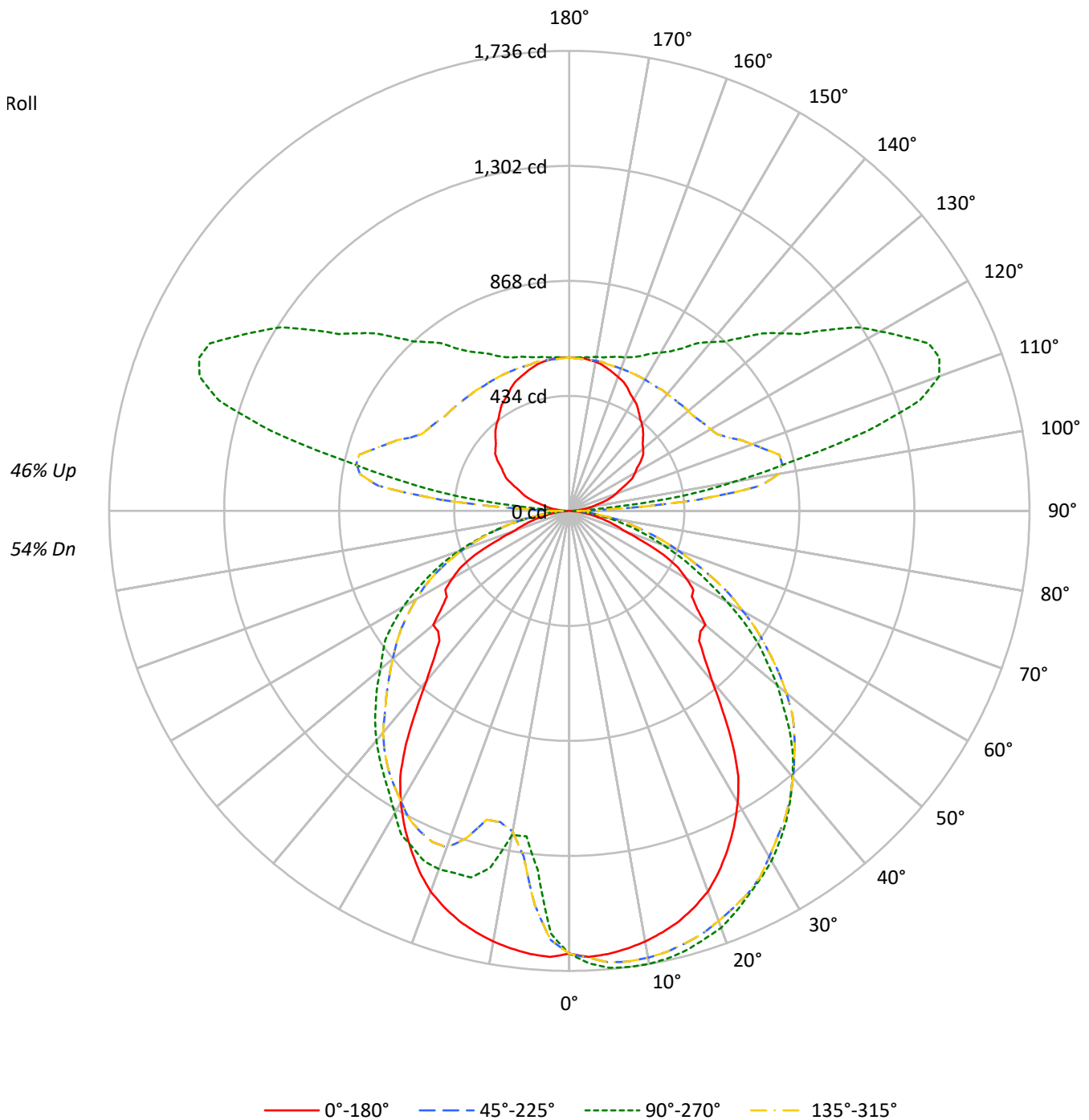
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8086.5 lumens
Efficiency: N/A
Efficacy: 117.5 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: General Diffuse

Input Watts (W): 68.8
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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54				54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45				45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32				32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28				28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24				24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21				21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19				19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17				17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15				15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13				13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15503	15503	15503	15503
5°	15602	15650	15602	12305
10°	15481	15416	15481	11021
15°	15294	15082	15294	12593
20°	14957	14686	14957	12620
25°	14285	14109	14285	12352
30°	13423	13630	13423	11766
35°	11949	13024	11949	11120
40°	9939	12310	9939	10632
45°	8863	11475	8863	10072
50°	9394	10479	9394	9509
55°	8814	9407	8814	9183
60°	9052	7989	9052	8411
65°	8169	6604	8169	7383
70°	5618	5263	5618	6187
75°	4873	3891	4873	4659
80°	3847	2571	3847	2801
85°	2095	1362	2095	1157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13610 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.9
10°-20°	428.2	5.3
20°-30°	661.9	8.2
30°-40°	790.2	9.8
40°-50°	794.8	9.8
50°-60°	691.6	8.6
60°-70°	490.3	6.1
70°-80°	259.4	3.2
80°-90°	66.8	0.8
90°-100°	282.1	3.5
100°-110°	741.8	9.2
110°-120°	769.2	9.5
120°-130°	617.0	7.6
130°-140°	484.1	6.0
140°-150°	371.6	4.6
150°-160°	267.6	3.3
160°-170°	163.7	2.0
170°-180°	55.3	0.7
0°-30°	1240.9	15.3
0°-40°	2031.1	25.1
0°-60°	3517.5	43.5
0°-90°	4334.1	53.6
90°-120°	1793.2	22.2
90°-150°	3265.8	40.4
90°-180°	3752.0	46.4
0°-180°	8086.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1671	1671	1671	1671	1671	
5°	1679	1731	1679	1361	1679	159
15°	1603	1715	1603	1432	1603	451
25°	1412	1600	1412	1400	1412	648
35°	1073	1427	1073	1219	1073	664
45°	692	1176	692	1032	692	555
55°	564	868	564	847	564	519
65°	392	523	392	585	392	375
75°	149	248	149	297	149	156
85°	25	63	25	54	25	34
90°	4	15	4	15	4	4
95°	37	170	37	170	37	41
105°	134	1162	134	1162	134	142
115°	237	1496	237	1496	237	234
125°	330	1191	330	1191	330	293
135°	394	924	394	924	394	304
145°	456	750	456	750	456	286
155°	516	646	516	646	516	237
165°	557	601	557	601	557	157
175°	579	583	579	583	579	55
180°	579	579	579	579	579	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1684.9	1684.9	1694.5	1697.6	1697.6	1692.9	1688.1	1692.9	1707.1	1711.8	1710.2
5°	1678.6	1691.3	1708.7	1711.8	1715.0	1713.4	1710.2	1713.4	1729.2	1732.4	1734.0
7.5°	1666.0	1689.7	1711.8	1716.6	1721.3	1716.6	1715.0	1718.2	1734.0	1737.1	1737.1
10°	1650.2	1683.3	1708.7	1711.8	1716.6	1711.8	1711.8	1718.2	1734.0	1737.1	1738.7
12.5°	1628.1	1673.9	1697.6	1700.7	1707.1	1705.5	1703.9	1710.2	1726.0	1729.2	1729.2
15°	1602.7	1656.5	1678.6	1681.8	1692.9	1689.7	1689.7	1696.1	1713.4	1718.2	1716.6
17.5°	1568.0	1634.4	1659.6	1664.4	1672.3	1670.7	1672.3	1678.6	1694.5	1697.6	1699.1
20°	1528.5	1604.3	1634.4	1639.1	1647.0	1647.0	1647.0	1655.0	1670.7	1677.1	1677.1
22.5°	1474.7	1572.8	1604.3	1607.5	1616.9	1616.9	1620.1	1631.2	1645.4	1647.0	1647.0
25°	1411.5	1537.9	1564.8	1574.4	1583.8	1588.5	1593.3	1599.6	1604.3	1602.7	1604.3
27.5°	1345.1	1493.7	1528.5	1534.7	1547.5	1552.2	1558.5	1560.1	1561.6	1566.4	1563.2
30°	1270.8	1432.0	1484.2	1490.6	1511.1	1514.2	1507.9	1511.1	1519.0	1522.1	1525.3
32.5°	1187.0	1340.4	1438.4	1452.6	1471.6	1462.1	1460.5	1465.3	1477.9	1477.9	1481.0
35°	1073.3	1269.2	1395.7	1408.4	1422.6	1411.5	1417.8	1419.4	1427.3	1432.0	1430.5
37.5°	948.4	1207.6	1351.4	1360.9	1372.0	1357.8	1367.3	1372.0	1378.3	1375.1	1375.1
40°	837.7	1111.2	1299.3	1305.6	1315.1	1304.1	1313.5	1316.7	1319.8	1316.7	1315.1
42.5°	755.5	1005.3	1244.0	1251.8	1245.5	1253.4	1256.6	1263.0	1258.2	1251.8	1251.8
45°	692.3	976.9	1183.8	1193.4	1183.8	1196.5	1201.3	1201.3	1187.0	1183.8	1182.4
47.5°	671.7	919.9	1123.8	1123.8	1119.1	1134.9	1142.7	1131.7	1117.5	1112.8	1112.8
50°	670.1	856.7	1041.6	1035.3	1057.5	1076.4	1068.5	1057.5	1046.4	1029.0	1029.0
52.5°	608.5	779.2	935.8	959.4	994.2	1005.3	992.7	981.5	962.6	954.7	948.4
55°	564.3	698.6	839.3	886.7	923.1	937.3	913.6	902.5	874.1	869.4	866.2
57.5°	554.8	581.7	750.8	810.9	855.1	853.6	839.3	818.7	795.0	790.4	788.8
60°	508.9	420.5	655.9	727.1	772.9	768.2	755.5	736.6	714.4	711.2	708.2
62.5°	461.6	305.0	548.4	629.0	693.9	692.3	681.3	652.8	637.0	629.0	622.8
65°	392.0	256.1	390.4	523.2	616.4	619.6	595.9	575.3	558.0	548.4	546.9
67.5°	298.7	208.7	263.9	436.3	542.2	539.0	508.9	499.5	477.4	472.6	463.2
70°	221.3	139.1	183.3	354.1	469.4	461.6	437.9	426.7	406.2	395.2	388.8
72.5°	183.3	112.3	134.3	275.1	395.2	385.6	365.1	352.5	335.1	325.6	319.2
75°	148.6	118.5	102.7	203.9	320.8	314.6	295.6	282.9	268.7	256.1	257.6
77.5°	109.1	110.7	82.2	150.2	254.5	245.0	234.0	218.1	211.8	199.1	199.1
80°	82.2	87.0	61.6	102.7	183.3	183.3	173.9	162.8	151.8	145.4	145.4
82.5°	55.3	55.3	45.9	64.8	124.9	120.1	113.8	110.7	104.3	101.2	101.2
85°	25.3	31.6	28.5	39.5	68.0	71.2	71.2	68.0	66.4	63.2	64.8
87.5°	7.9	14.2	17.4	22.1	34.7	36.3	37.9	37.9	37.9	39.5	39.5
90°	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7	14.8	14.8
92.5°	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6	73.8	70.9
95°	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0	250.6	241.7
97.5°	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0	578.4	561.5
100°	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7	812.3	792.1
102.5°	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9	1012.0	994.7
105°	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4	1245.1	1235.9
107.5°	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7	1366.3	1368.6
110°	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5	1397.4	1407.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4	1377.6	1392.4
115°	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6	1310.4	1331.0
117.5°	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0	1217.6	1240.4
120°	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4	1155.0	1177.2
122.5°	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6	1092.4	1114.3
125°	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3	1009.7	1029.8
127.5°	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3	943.2	960.2
130°	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3	901.3	917.0
132.5°	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5	865.5	879.6
135°	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3	815.0	827.2
137.5°	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1	777.7	787.6
140°	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3	747.9	757.1
142.5°	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3	726.8	734.9
145°	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1	695.4	701.4
147.5°	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5	669.0	674.1
150°	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3	653.8	657.8
152.5°	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3	641.8	644.8
155°	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8	627.4	629.4
157.5°	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5	614.9	616.3
160°	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4	608.8	609.6
162.5°	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4	602.9	603.6
165°	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6	594.0	594.9
167.5°	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2	590.1	590.5
170°	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2	590.1	590.1
172.5°	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1	587.0	586.7
175°	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3	582.7	582.7
177.5°	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0	582.0	581.6
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1713.4	1708.7	1713.4	1710.2	1711.8	1707.1	1692.9	1688.1	1692.9	1697.6	1697.6
5°	1734.0	1730.8	1734.0	1734.0	1732.4	1729.2	1713.4	1710.2	1713.4	1715.0	1711.8
7.5°	1740.2	1735.6	1740.2	1737.1	1737.1	1734.0	1718.2	1715.0	1716.6	1721.3	1716.6
10°	1740.2	1735.6	1740.2	1738.7	1737.1	1734.0	1718.2	1711.8	1711.8	1716.6	1711.8
12.5°	1732.4	1729.2	1732.4	1729.2	1729.2	1726.0	1710.2	1703.9	1705.5	1707.1	1700.7
15°	1719.7	1715.0	1719.7	1716.6	1718.2	1713.4	1696.1	1689.7	1689.7	1692.9	1681.8
17.5°	1700.7	1694.5	1700.7	1699.1	1697.6	1694.5	1678.6	1672.3	1670.7	1672.3	1664.4
20°	1678.6	1673.9	1678.6	1677.1	1677.1	1670.7	1655.0	1647.0	1647.0	1647.0	1639.1
22.5°	1643.8	1639.1	1643.8	1647.0	1647.0	1645.4	1631.2	1620.1	1616.9	1616.9	1607.5
25°	1604.3	1599.6	1604.3	1604.3	1602.7	1604.3	1599.6	1593.3	1588.5	1583.8	1574.4
27.5°	1566.4	1563.2	1566.4	1563.2	1566.4	1561.6	1560.1	1558.5	1552.2	1547.5	1534.7
30°	1528.5	1525.3	1528.5	1525.3	1522.1	1519.0	1511.1	1507.9	1514.2	1511.1	1490.6
32.5°	1481.0	1477.9	1481.0	1481.0	1477.9	1477.9	1465.3	1460.5	1462.1	1471.6	1452.6
35°	1432.0	1427.3	1432.0	1430.5	1432.0	1427.3	1419.4	1417.8	1411.5	1422.6	1408.4
37.5°	1375.1	1370.4	1375.1	1375.1	1375.1	1378.3	1372.0	1367.3	1357.8	1372.0	1360.9
40°	1316.7	1310.3	1316.7	1315.1	1316.7	1319.8	1316.7	1313.5	1304.1	1315.1	1305.6
42.5°	1250.3	1248.7	1250.3	1251.8	1251.8	1258.2	1263.0	1256.6	1253.4	1245.5	1251.8
45°	1179.2	1176.0	1179.2	1182.4	1183.8	1187.0	1201.3	1201.3	1196.5	1183.8	1193.4
47.5°	1103.2	1095.4	1103.2	1112.8	1112.8	1117.5	1131.7	1142.7	1134.9	1119.1	1123.8
50°	1022.6	1024.2	1022.6	1029.0	1029.0	1046.4	1057.5	1068.5	1076.4	1057.5	1035.3
52.5°	943.6	942.0	943.6	948.4	954.7	962.6	981.5	992.7	1005.3	994.2	959.4
55°	864.6	867.8	864.6	866.2	869.4	874.1	902.5	913.6	937.3	923.1	886.7
57.5°	785.6	780.8	785.6	788.8	790.4	795.0	818.7	839.3	853.6	855.1	810.9
60°	693.9	687.6	693.9	708.2	711.2	714.4	736.6	755.5	768.2	772.9	727.1
62.5°	613.3	602.2	613.3	622.8	629.0	637.0	652.8	681.3	692.3	693.9	629.0
65°	527.9	523.2	527.9	546.9	548.4	558.0	575.3	595.9	619.6	616.4	523.2
67.5°	450.5	450.5	450.5	463.2	472.6	477.4	499.5	508.9	539.0	542.2	436.3
70°	379.4	377.8	379.4	388.8	395.2	406.2	426.7	437.9	461.6	469.4	354.1
72.5°	311.4	309.8	311.4	319.2	325.6	335.1	352.5	365.1	385.6	395.2	275.1
75°	251.3	248.2	251.3	257.6	256.1	268.7	282.9	295.6	314.6	320.8	203.9
77.5°	192.9	192.9	192.9	199.1	199.1	211.8	218.1	234.0	245.0	254.5	150.2
80°	143.8	142.2	143.8	145.4	145.4	151.8	162.8	173.9	183.3	183.3	102.7
82.5°	101.2	98.0	101.2	101.2	101.2	104.3	110.7	113.8	120.1	124.9	64.8
85°	63.2	63.2	63.2	64.8	63.2	66.4	68.0	71.2	71.2	68.0	39.5
87.5°	41.1	39.5	41.1	39.5	39.5	37.9	37.9	37.9	36.3	34.7	22.1
90°	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4	17.1	10.8
92.5°	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0	105.4	75.0
95°	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4	259.4	146.1
97.5°	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3	349.4	160.5
100°	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7	382.2	172.5
102.5°	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7	397.2	184.6
105°	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8	408.3	202.4
107.5°	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4	410.4	228.8
110°	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5	407.2	243.6



TEST NUMBER: P935406

CATALOG NUMBER: SQ4-FA-100U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0	407.4	261.4
115°	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1	411.1	288.2
117.5°	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2	418.8	314.3
120°	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5	425.0	329.4
122.5°	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5	433.9	347.4
125°	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0	446.0	370.2
127.5°	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5	458.0	392.4
130°	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5	466.8	407.1
132.5°	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0	473.9	419.2
135°	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5	481.8	433.2
137.5°	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8	493.3	451.0
140°	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4	500.5	463.1
142.5°	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4	506.5	472.0
145°	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5	514.3	485.6
147.5°	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2	525.7	502.7
150°	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3	531.6	511.6
152.5°	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5	535.5	517.4
155°	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4	544.1	530.3
157.5°	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2	552.6	543.1
160°	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5	556.5	548.9
162.5°	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9	560.6	555.2
165°	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8	566.6	564.0
167.5°	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9	571.2	569.2
170°	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3	575.1	575.0
172.5°	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1	577.7	578.9
177.5°	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7	578.0	578.9
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935406

CATALOG NUMBER: SQ4-FA-100U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1694.5	1684.9	1684.9	1669.2	1662.8	1658.0	1650.2	1626.5	1620.1	1613.9	1623.3
5°	1708.7	1691.3	1678.6	1650.2	1626.5	1616.9	1587.0	1530.1	1492.2	1463.7	1447.9
7.5°	1711.8	1689.7	1666.0	1621.7	1564.8	1539.5	1447.9	1343.6	1315.1	1289.8	1274.0
10°	1708.7	1683.3	1650.2	1583.8	1449.5	1405.2	1313.5	1245.5	1228.1	1223.4	1228.1
12.5°	1697.6	1673.9	1628.1	1517.4	1329.3	1299.3	1245.5	1206.0	1202.9	1210.7	1253.4
15°	1678.6	1656.5	1602.7	1428.9	1263.0	1240.8	1202.9	1188.6	1206.0	1261.4	1389.4
17.5°	1659.6	1634.4	1568.0	1342.0	1212.3	1196.5	1169.6	1198.1	1296.1	1370.4	1413.0
20°	1634.4	1604.3	1528.5	1278.7	1176.0	1161.8	1149.1	1277.2	1351.4	1378.3	1402.0
22.5°	1604.3	1572.8	1474.7	1234.5	1138.1	1127.0	1134.9	1321.4	1351.4	1370.4	1390.9
25°	1564.8	1537.9	1411.5	1199.7	1108.0	1095.4	1125.4	1316.7	1334.0	1338.8	1379.9
27.5°	1528.5	1493.7	1345.1	1168.1	1071.7	1066.9	1133.3	1296.1	1308.7	1313.5	1357.8
30°	1484.2	1432.0	1270.8	1134.9	1033.8	1032.2	1134.9	1270.8	1267.6	1280.3	1324.6
32.5°	1438.4	1340.4	1187.0	1093.8	997.4	995.8	1123.8	1232.9	1229.7	1247.1	1280.3
35°	1395.7	1269.2	1073.3	1046.4	951.6	953.1	1097.0	1188.6	1190.2	1206.0	1226.5
37.5°	1351.4	1207.6	948.4	994.2	907.3	907.3	1060.6	1147.5	1144.3	1149.1	1177.6
40°	1299.3	1111.2	837.7	926.2	866.2	861.4	1016.4	1103.2	1092.2	1090.6	1130.1
42.5°	1244.0	1005.3	755.5	836.1	818.7	812.5	962.6	1049.5	1029.0	1033.8	1084.3
45°	1183.8	976.9	692.3	706.6	769.8	765.0	904.1	987.9	973.7	986.3	1038.5
47.5°	1123.8	919.9	671.7	586.5	717.6	716.0	839.3	927.8	919.9	932.6	987.9
50°	1041.6	856.7	670.1	502.7	659.1	665.5	761.9	869.4	869.4	880.4	938.9
52.5°	935.8	779.2	608.5	455.2	591.1	610.1	693.9	818.7	821.9	833.0	885.2
55°	839.3	698.6	564.3	418.9	510.5	551.6	627.6	766.6	772.9	784.0	831.4
57.5°	750.8	581.7	554.8	376.2	436.3	475.8	569.0	716.0	719.2	728.7	774.5
60°	655.9	420.5	508.9	330.4	371.5	401.4	515.3	655.9	667.1	673.3	712.8
62.5°	548.4	305.0	461.6	298.7	339.8	346.1	471.0	599.1	613.3	618.0	641.8
65°	390.4	256.1	392.0	271.9	306.6	308.2	423.6	540.6	553.2	561.1	578.5
67.5°	263.9	208.7	298.7	246.6	281.3	282.9	377.8	472.6	490.0	496.3	507.3
70°	183.3	139.1	221.3	219.7	252.9	256.1	328.8	411.0	426.7	431.5	437.9
72.5°	134.3	112.3	183.3	197.5	222.9	226.0	278.1	341.4	357.3	361.9	365.1
75°	102.7	118.5	148.6	172.3	189.7	191.3	227.6	278.1	289.3	292.4	294.0
77.5°	82.2	110.7	109.1	139.1	154.9	151.8	178.6	215.0	224.4	224.4	224.4
80°	61.6	87.0	82.2	99.6	113.8	110.7	128.1	153.4	156.4	159.6	158.0
82.5°	45.9	55.3	55.3	63.2	75.8	72.7	85.4	99.6	99.6	99.6	102.7
85°	28.5	31.6	25.3	33.2	42.7	41.1	47.4	53.7	55.3	55.3	52.1
87.5°	17.4	14.2	7.9	12.6	19.0	19.0	22.1	23.7	22.1	22.1	22.1
90°	10.1	7.0	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7
92.5°	68.4	41.9	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6
95°	134.0	85.6	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0
97.5°	149.8	107.1	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0
100°	162.8	124.1	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7
102.5°	175.5	139.4	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9
105°	194.7	164.2	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4
107.5°	221.7	193.2	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7
110°	237.1	211.5	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5



TEST NUMBER: P935406

CATALOG NUMBER: SQ4-FA-100U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	255.3	230.8	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4
115°	282.5	259.9	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6
117.5°	309.2	288.6	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0
120°	324.6	305.2	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4
122.5°	342.5	323.0	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6
125°	365.8	348.0	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3
127.5°	387.9	369.9	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3
130°	402.3	382.9	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3
132.5°	414.3	395.0	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5
135°	428.8	411.1	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3
137.5°	446.6	429.3	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1
140°	459.1	443.0	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3
142.5°	468.3	453.5	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3
145°	482.3	469.4	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1
147.5°	499.5	487.0	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5
150°	508.7	497.4	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3
152.5°	515.3	506.6	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3
155°	528.7	522.3	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8
157.5°	541.5	535.4	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5
160°	547.7	542.9	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4
162.5°	554.2	550.6	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4
165°	563.2	559.9	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6
167.5°	568.8	567.2	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2
170°	574.6	573.0	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2
172.5°	575.3	575.0	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1
175°	578.9	578.9	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3
177.5°	578.9	578.9	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935406
 CATALOG NUMBER: SQ4-FA-100U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1612.3	1607.5	1613.9	1596.4	1613.9	1607.5	1612.3	1623.3	1613.9	1620.1	1626.5
5°	1414.6	1406.8	1381.5	1360.9	1381.5	1406.8	1414.6	1447.9	1463.7	1492.2	1530.1
7.5°	1264.5	1258.2	1251.8	1239.2	1251.8	1258.2	1264.5	1274.0	1289.8	1315.1	1343.6
10°	1231.3	1232.9	1242.4	1240.8	1242.4	1232.9	1231.3	1228.1	1223.4	1228.1	1245.5
12.5°	1316.7	1330.9	1383.1	1379.9	1383.1	1330.9	1316.7	1253.4	1210.7	1202.9	1206.0
15°	1414.6	1419.4	1430.5	1432.0	1430.5	1419.4	1414.6	1389.4	1261.4	1206.0	1188.6
17.5°	1424.2	1425.8	1433.6	1433.6	1433.6	1425.8	1424.2	1413.0	1370.4	1296.1	1198.1
20°	1416.2	1419.4	1435.2	1438.4	1435.2	1419.4	1416.2	1402.0	1378.3	1351.4	1277.2
22.5°	1413.0	1419.4	1432.0	1430.5	1432.0	1419.4	1413.0	1390.9	1370.4	1351.4	1321.4
25°	1397.3	1397.3	1398.9	1400.4	1398.9	1397.3	1397.3	1379.9	1338.8	1334.0	1316.7
27.5°	1364.1	1367.3	1376.7	1375.1	1376.7	1367.3	1364.1	1357.8	1313.5	1308.7	1296.1
30°	1334.0	1330.9	1323.0	1316.7	1323.0	1330.9	1334.0	1324.6	1280.3	1267.6	1270.8
32.5°	1283.5	1275.6	1267.6	1263.0	1267.6	1275.6	1283.5	1280.3	1247.1	1229.7	1232.9
35°	1223.4	1224.9	1223.4	1218.7	1223.4	1224.9	1223.4	1226.5	1206.0	1190.2	1188.6
37.5°	1180.8	1183.8	1182.4	1176.0	1182.4	1183.8	1180.8	1177.6	1149.1	1144.3	1147.5
40°	1136.5	1138.1	1136.5	1131.7	1136.5	1138.1	1136.5	1130.1	1090.6	1092.2	1103.2
42.5°	1093.8	1092.2	1087.5	1084.3	1087.5	1092.2	1093.8	1084.3	1033.8	1029.0	1049.5
45°	1044.8	1046.4	1036.9	1032.2	1036.9	1046.4	1044.8	1038.5	986.3	973.7	987.9
47.5°	995.8	995.8	987.9	983.1	987.9	995.8	995.8	987.9	932.6	919.9	927.8
50°	943.6	942.0	931.0	929.4	931.0	942.0	943.6	938.9	880.4	869.4	869.4
52.5°	883.6	883.6	885.2	888.3	885.2	883.6	883.6	885.2	833.0	821.9	818.7
55°	831.4	833.0	844.1	847.2	844.1	833.0	831.4	831.4	784.0	772.9	766.6
57.5°	777.6	777.6	785.6	785.6	785.6	777.6	777.6	774.5	728.7	719.2	716.0
60°	716.0	719.2	725.5	723.9	725.5	719.2	716.0	712.8	673.3	667.1	655.9
62.5°	651.2	654.4	655.9	652.8	655.9	654.4	651.2	641.8	618.0	613.3	599.1
65°	583.3	586.5	588.0	584.9	588.0	586.5	583.3	578.5	561.1	553.2	540.6
67.5°	513.7	512.1	510.5	516.9	510.5	512.1	513.7	507.3	496.3	490.0	472.6
70°	442.5	442.5	441.0	444.1	441.0	442.5	442.5	437.9	431.5	426.7	411.0
72.5°	366.7	365.1	371.5	366.7	371.5	365.1	366.7	365.1	361.9	357.3	341.4
75°	292.4	295.6	292.4	297.2	292.4	295.6	292.4	294.0	292.4	289.3	278.1
77.5°	222.9	226.0	222.9	222.9	222.9	226.0	222.9	224.4	224.4	224.4	215.0
80°	158.0	156.4	156.4	154.9	156.4	156.4	158.0	158.0	159.6	156.4	153.4
82.5°	101.2	99.6	99.6	102.7	99.6	99.6	101.2	102.7	99.6	99.6	99.6
85°	55.3	56.9	53.7	53.7	53.7	56.9	55.3	52.1	55.3	55.3	53.7
87.5°	20.5	19.0	19.0	19.0	19.0	19.0	20.5	22.1	22.1	22.1	23.7
90°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4
92.5°	73.8	70.9	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0
95°	250.6	241.7	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4
97.5°	578.4	561.5	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3
100°	812.3	792.1	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7
102.5°	1012.0	994.7	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7
105°	1245.1	1235.9	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8
107.5°	1366.3	1368.6	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4
110°	1397.4	1407.1	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1377.6	1392.4	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0
115°	1310.4	1331.0	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1
117.5°	1217.6	1240.4	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2
120°	1155.0	1177.2	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5
122.5°	1092.4	1114.3	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5
125°	1009.7	1029.8	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0
127.5°	943.2	960.2	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5
130°	901.3	917.0	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5
132.5°	865.5	879.6	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0
135°	815.0	827.2	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5
137.5°	777.7	787.6	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8
140°	747.9	757.1	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4
142.5°	726.8	734.9	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4
145°	695.4	701.4	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5
147.5°	669.0	674.1	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2
150°	653.8	657.8	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3
152.5°	641.8	644.8	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5
155°	627.4	629.4	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4
157.5°	614.9	616.3	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2
160°	608.8	609.6	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5
162.5°	602.9	603.6	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9
165°	594.0	594.9	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8
167.5°	590.1	590.5	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9
170°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3
172.5°	587.0	586.7	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1
177.5°	582.0	581.6	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1670.7	1670.7	1670.7	1670.7	1670.7
2.5°	1650.2	1658.0	1662.8	1669.2	1684.9
5°	1587.0	1616.9	1626.5	1650.2	1678.6
7.5°	1447.9	1539.5	1564.8	1621.7	1666.0
10°	1313.5	1405.2	1449.5	1583.8	1650.2
12.5°	1245.5	1299.3	1329.3	1517.4	1628.1
15°	1202.9	1240.8	1263.0	1428.9	1602.7
17.5°	1169.6	1196.5	1212.3	1342.0	1568.0
20°	1149.1	1161.8	1176.0	1278.7	1528.5
22.5°	1134.9	1127.0	1138.1	1234.5	1474.7
25°	1125.4	1095.4	1108.0	1199.7	1411.5
27.5°	1133.3	1066.9	1071.7	1168.1	1345.1
30°	1134.9	1032.2	1033.8	1134.9	1270.8
32.5°	1123.8	995.8	997.4	1093.8	1187.0
35°	1097.0	953.1	951.6	1046.4	1073.3
37.5°	1060.6	907.3	907.3	994.2	948.4
40°	1016.4	861.4	866.2	926.2	837.7
42.5°	962.6	812.5	818.7	836.1	755.5
45°	904.1	765.0	769.8	706.6	692.3
47.5°	839.3	716.0	717.6	586.5	671.7
50°	761.9	665.5	659.1	502.7	670.1
52.5°	693.9	610.1	591.1	455.2	608.5
55°	627.6	551.6	510.5	418.9	564.3
57.5°	569.0	475.8	436.3	376.2	554.8
60°	515.3	401.4	371.5	330.4	508.9
62.5°	471.0	346.1	339.8	298.7	461.6
65°	423.6	308.2	306.6	271.9	392.0
67.5°	377.8	282.9	281.3	246.6	298.7
70°	328.8	256.1	252.9	219.7	221.3
72.5°	278.1	226.0	222.9	197.5	183.3
75°	227.6	191.3	189.7	172.3	148.6
77.5°	178.6	151.8	154.9	139.1	109.1
80°	128.1	110.7	113.8	99.6	82.2
82.5°	85.4	72.7	75.8	63.2	55.3
85°	47.4	41.1	42.7	33.2	25.3
87.5°	22.1	19.0	19.0	12.6	7.9
90°	17.1	10.8	10.1	7.0	3.9
92.5°	105.4	75.0	68.4	41.9	15.5
95°	259.4	146.1	134.0	85.6	37.3
97.5°	349.4	160.5	149.8	107.1	64.4
100°	382.2	172.5	162.8	124.1	85.5
102.5°	397.2	184.6	175.5	139.4	103.3
105°	408.3	202.4	194.7	164.2	133.7
107.5°	410.4	228.8	221.7	193.2	164.8
110°	407.2	243.6	237.1	211.5	185.7



TEST NUMBER: P935406

CATALOG NUMBER: SQ4-FA-100U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	407.4	261.4	255.3	230.8	206.3
115°	411.1	288.2	282.5	259.9	237.3
117.5°	418.8	314.3	309.2	288.6	268.1
120°	425.0	329.4	324.6	305.2	285.9
122.5°	433.9	347.4	342.5	323.0	303.5
125°	446.0	370.2	365.8	348.0	330.3
127.5°	458.0	392.4	387.9	369.9	351.9
130°	466.8	407.1	402.3	382.9	363.6
132.5°	473.9	419.2	414.3	395.0	375.7
135°	481.8	433.2	428.8	411.1	393.6
137.5°	493.3	451.0	446.6	429.3	411.8
140°	500.5	463.1	459.1	443.0	426.9
142.5°	506.5	472.0	468.3	453.5	438.6
145°	514.3	485.6	482.3	469.4	456.4
147.5°	525.7	502.7	499.5	487.0	474.4
150°	531.6	511.6	508.7	497.4	486.0
152.5°	535.5	517.4	515.3	506.6	498.0
155°	544.1	530.3	528.7	522.3	515.9
157.5°	552.6	543.1	541.5	535.4	529.1
160°	556.5	548.9	547.7	542.9	538.1
162.5°	560.6	555.2	554.2	550.6	547.0
165°	566.6	564.0	563.2	559.9	556.7
167.5°	571.2	569.2	568.8	567.2	565.6
170°	575.1	575.0	574.6	573.0	571.5
172.5°	575.3	575.3	575.3	575.0	574.6
175°	577.7	578.9	578.9	578.9	578.9
177.5°	578.0	578.9	578.9	578.9	578.9
180°	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935406
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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	14.64	15.54	15.57	16.48	17.70	17.44	18.34	18.37	19.28	20.50
	3H	15.12	15.92	16.06	16.88	18.12	18.78	19.58	19.72	20.53	21.78
	4H	15.32	16.07	16.27	17.03	18.28	19.22	19.98	20.17	20.93	22.19
	6H	15.44	16.14	16.40	17.10	18.36	19.50	20.20	20.46	21.16	22.42
	8H	15.44	16.10	16.41	17.08	18.35	19.57	20.23	20.54	21.21	22.48
	12H	15.41	16.04	16.39	17.02	18.31	19.60	20.24	20.58	21.21	22.50
4H	2H	15.67	16.43	16.63	17.39	18.64	17.86	18.61	18.81	19.57	20.82
	3H	16.70	17.33	17.67	18.32	19.59	19.36	19.99	20.32	20.97	22.24
	4H	16.98	17.56	17.96	18.54	19.83	19.88	20.46	20.86	21.44	22.73
	6H	17.11	17.60	18.10	18.61	19.90	20.24	20.73	21.23	21.74	23.03
	8H	17.11	17.58	18.10	18.58	19.88	20.34	20.80	21.33	21.80	23.11
	12H	17.08	17.50	18.09	18.52	19.82	20.39	20.81	21.40	21.83	23.13
8H	4H	17.43	17.90	18.42	18.89	20.20	20.01	20.47	21.00	21.47	22.77
	6H	17.69	18.08	18.71	19.12	20.42	20.44	20.82	21.45	21.86	23.16
	8H	17.74	18.08	18.76	19.10	20.42	20.58	20.92	21.61	21.95	23.27
	12H	17.72	18.02	18.75	19.04	20.41	20.68	20.98	21.71	22.00	23.36
12H	4H	17.44	17.86	18.45	18.87	20.18	19.97	20.39	20.98	21.41	22.71
	6H	17.75	18.09	18.78	19.12	20.44	20.43	20.77	21.46	21.80	23.12
	8H	17.82	18.12	18.85	19.14	20.50	20.59	20.89	21.62	21.91	23.27