

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: P934206

Luminaire Tested: SQ4-FA-025U-125D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934206
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-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

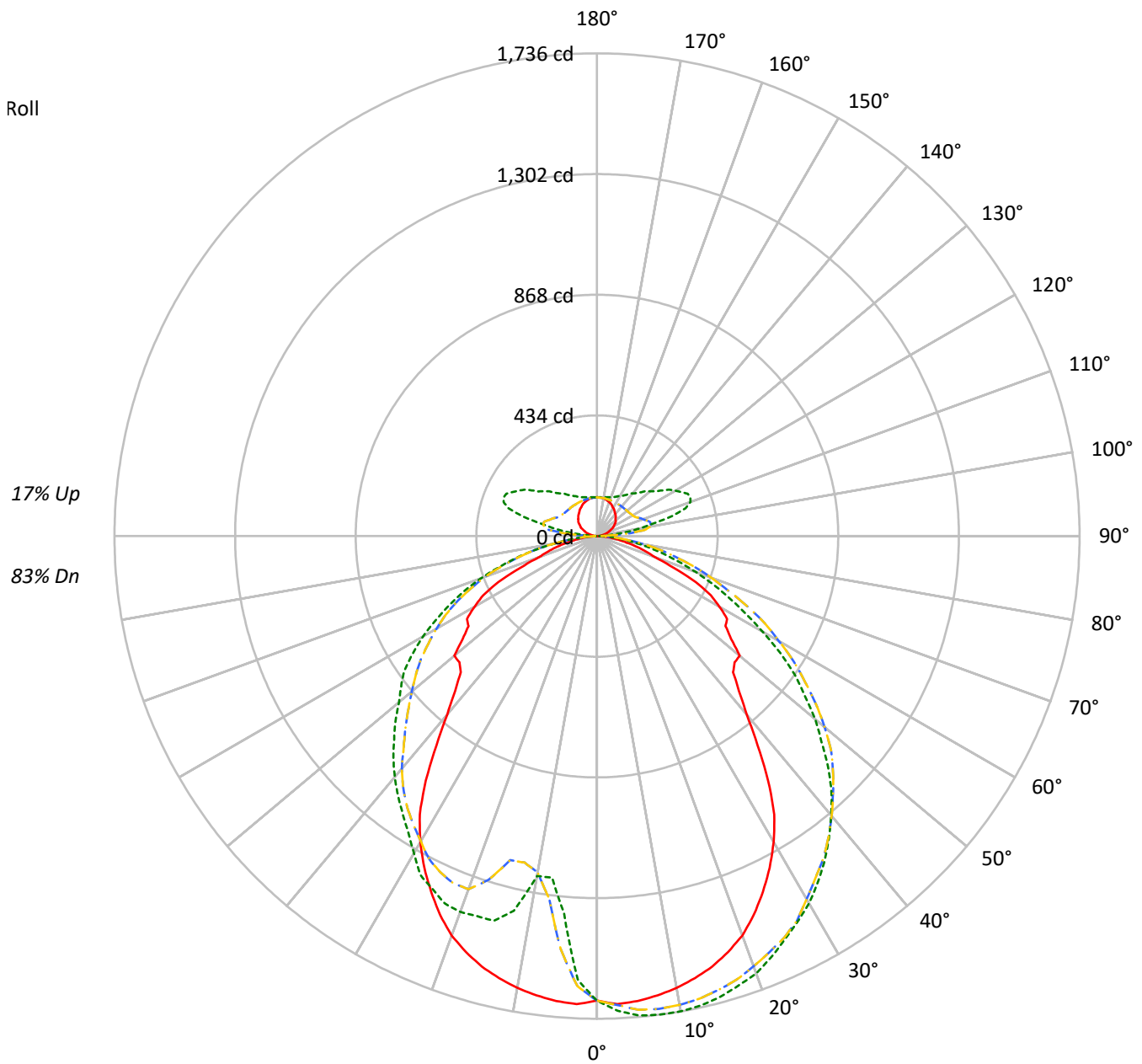
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5236.0 lumens
Efficiency: N/A
Efficacy: 105.6 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				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°	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	2.9
10°-20°	428.2	8.2
20°-30°	661.9	12.6
30°-40°	790.2	15.1
40°-50°	794.8	15.2
50°-60°	691.6	13.2
60°-70°	490.3	9.4
70°-80°	259.4	5.0
80°-90°	65.1	1.2
90°-100°	67.9	1.3
100°-110°	178.6	3.4
110°-120°	185.2	3.5
120°-130°	148.6	2.8
130°-140°	116.6	2.2
140°-150°	89.5	1.7
150°-160°	64.4	1.2
160°-170°	39.4	0.8
170°-180°	13.3	0.3
0°-30°	1240.9	23.7
0°-40°	2031.1	38.8
0°-60°	3517.5	67.2
0°-90°	4332.4	82.7
90°-120°	431.8	8.2
90°-150°	786.4	15.0
90°-180°	904.0	17.3
0°-180°	5236.0	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°	1	4	1	4	1	2
95°	9	41	9	41	9	10
105°	32	280	32	280	32	34
115°	57	360	57	360	57	56
125°	80	287	80	287	80	71
135°	95	223	95	223	95	73
145°	110	180	110	180	110	69
155°	124	156	124	156	124	57
165°	134	145	134	145	134	38
175°	139	140	139	140	139	13
180°	139	139	139	139	139	



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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°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.5	3.5
92.5°	3.7	10.1	16.4	18.0	25.4	35.2	40.1	35.1	25.2	17.7	17.0
95°	9.0	20.6	32.3	35.2	62.5	98.8	117.0	104.4	79.2	60.3	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.8	175.1	167.2	151.2	139.3	135.1
100°	20.5	29.9	39.2	41.6	92.0	159.3	193.0	193.5	194.7	195.6	190.7
102.5°	24.8	33.5	42.3	44.5	95.6	163.9	198.0	208.2	228.5	243.7	239.5
105°	32.2	39.6	46.9	48.8	98.4	164.4	197.4	220.2	265.7	299.8	297.6
107.5°	39.7	46.5	53.4	55.1	98.8	157.1	186.2	218.0	281.4	329.0	329.6
110°	44.7	50.9	57.1	58.7	98.1	150.7	176.9	212.4	283.3	336.5	338.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.0	168.4	204.7	277.3	331.8	335.3
115°	57.2	62.6	68.0	69.4	99.0	138.5	158.2	193.2	263.1	315.5	320.5
117.5°	64.5	69.5	74.4	75.7	100.9	134.4	151.2	182.8	245.8	293.2	298.7
120°	68.8	73.5	78.2	79.3	102.3	133.0	148.3	177.2	234.9	278.1	283.5
122.5°	73.0	77.7	82.4	83.6	104.4	132.3	146.2	172.1	224.1	263.0	268.2
125°	79.5	83.8	88.1	89.2	107.4	131.7	143.8	165.9	210.1	243.1	248.0
127.5°	84.7	89.1	93.4	94.5	110.3	131.3	141.9	160.8	198.8	227.1	231.3
130°	87.5	92.2	96.9	98.1	112.5	131.6	141.1	158.0	191.8	217.1	220.8
132.5°	90.5	95.2	99.8	101.0	114.1	131.7	140.5	155.6	185.8	208.5	211.8
135°	94.8	99.0	103.3	104.3	116.0	131.6	139.4	152.0	177.3	196.2	199.1
137.5°	99.2	103.4	107.6	108.6	118.8	132.3	139.2	149.8	171.2	187.3	189.7
140°	102.8	106.7	110.6	111.5	120.5	132.5	138.5	147.8	166.3	180.1	182.3
142.5°	105.6	109.2	112.7	113.7	122.0	133.0	138.5	146.6	162.9	175.0	177.0
145°	109.9	113.0	116.2	116.9	123.8	133.0	137.6	144.2	157.5	167.5	169.0
147.5°	114.2	117.2	120.3	121.0	126.6	133.9	137.6	142.8	153.3	161.1	162.3
150°	117.0	119.7	122.5	123.2	128.0	134.4	137.6	142.0	150.8	157.5	158.4
152.5°	119.9	122.0	124.0	124.6	128.9	134.7	137.6	141.3	148.9	154.6	155.3
155°	124.2	125.7	127.3	127.7	130.9	135.3	137.6	140.6	146.6	151.1	151.6
157.5°	127.4	128.9	130.4	130.8	133.0	136.1	137.6	139.9	144.6	148.0	148.4
160°	129.5	130.7	131.9	132.2	133.9	136.4	137.6	139.5	143.6	146.5	146.7
162.5°	131.7	132.5	133.5	133.7	135.0	136.7	137.6	139.3	142.6	145.1	145.3
165°	134.0	134.8	135.6	135.8	136.4	137.2	137.6	138.8	141.2	143.0	143.2
167.5°	136.2	136.6	136.9	137.0	137.5	138.1	138.5	139.3	140.8	142.1	142.2
170°	137.6	138.0	138.3	138.4	138.4	138.5	138.5	139.3	140.8	142.1	142.1
172.5°	138.3	138.4	138.5	138.5	138.5	138.5	138.5	139.2	140.4	141.3	141.2
175°	139.4	139.4	139.4	139.4	139.1	138.7	138.5	138.9	139.7	140.3	140.3
177.5°	139.4	139.4	139.4	139.4	139.2	138.9	138.7	139.0	139.6	140.1	140.0
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



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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°	3.5	3.5	3.5	3.5	3.5	4.8	6.4	7.1	6.1	4.1	2.6
92.5°	14.2	11.4	14.2	17.0	17.7	25.2	35.1	40.1	35.2	25.4	18.0
95°	49.7	41.1	49.7	58.2	60.3	79.2	104.4	117.0	98.8	62.5	35.2
97.5°	118.9	102.6	118.9	135.1	139.3	151.2	167.2	175.1	144.8	84.2	38.7
100°	171.4	152.0	171.4	190.7	195.6	194.7	193.5	193.0	159.3	92.0	41.6
102.5°	222.9	206.2	222.9	239.5	243.7	228.5	208.2	198.0	163.9	95.6	44.5
105°	288.7	279.7	288.7	297.6	299.8	265.7	220.2	197.4	164.4	98.4	48.8
107.5°	331.8	333.9	331.8	329.6	329.0	281.4	218.0	186.2	157.1	98.8	55.1
110°	348.1	357.4	348.1	338.9	336.5	283.3	212.4	176.9	150.7	98.1	58.7



TEST NUMBER: P934206

CATALOG NUMBER: SQ4-FA-025U-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°	349.6	363.9	349.6	335.3	331.8	277.3	204.7	168.4	145.0	98.1	63.0
115°	340.3	360.2	340.3	320.5	315.5	263.1	193.2	158.2	138.5	99.0	69.4
117.5°	320.6	342.7	320.6	298.7	293.2	245.8	182.8	151.2	134.4	100.9	75.7
120°	304.9	326.2	304.9	283.5	278.1	234.9	177.2	148.3	133.0	102.3	79.3
122.5°	289.4	310.5	289.4	268.2	263.0	224.1	172.1	146.2	132.3	104.4	83.6
125°	267.4	286.8	267.4	248.0	243.1	210.1	165.9	143.8	131.7	107.4	89.2
127.5°	247.6	263.9	247.6	231.3	227.1	198.8	160.8	141.9	131.3	110.3	94.5
130°	235.9	251.1	235.9	220.8	217.1	191.8	158.0	141.1	131.6	112.5	98.1
132.5°	225.4	238.9	225.4	211.8	208.5	185.8	155.6	140.5	131.7	114.1	101.0
135°	210.9	222.6	210.9	199.1	196.2	177.3	152.0	139.4	131.6	116.0	104.3
137.5°	199.2	208.8	199.2	189.7	187.3	171.2	149.8	139.2	132.3	118.8	108.6
140°	191.2	200.2	191.2	182.3	180.1	166.3	147.8	138.5	132.5	120.5	111.5
142.5°	184.7	192.3	184.7	177.0	175.0	162.9	146.6	138.5	133.0	122.0	113.7
145°	174.8	180.5	174.8	169.0	167.5	157.5	144.2	137.6	133.0	123.8	116.9
147.5°	167.1	171.9	167.1	162.3	161.1	153.3	142.8	137.6	133.9	126.6	121.0
150°	162.3	166.3	162.3	158.4	157.5	150.8	142.0	137.6	134.4	128.0	123.2
152.5°	158.2	161.2	158.2	155.3	154.6	148.9	141.3	137.6	134.7	128.9	124.6
155°	153.5	155.5	153.5	151.6	151.1	146.6	140.6	137.6	135.3	130.9	127.7
157.5°	149.8	151.2	149.8	148.4	148.0	144.6	139.9	137.6	136.1	133.0	130.8
160°	147.6	148.3	147.6	146.7	146.5	143.6	139.5	137.6	136.4	133.9	132.2
162.5°	146.1	146.8	146.1	145.3	145.1	142.6	139.3	137.6	136.7	135.0	133.7
165°	144.0	144.8	144.0	143.2	143.0	141.2	138.8	137.6	137.2	136.4	135.8
167.5°	142.4	142.8	142.4	142.2	142.1	140.8	139.3	138.5	138.1	137.5	137.0
170°	142.1	142.1	142.1	142.1	142.1	140.8	139.3	138.5	138.5	138.4	138.4
172.5°	140.9	140.7	140.9	141.2	141.3	140.4	139.2	138.5	138.5	138.5	138.5
175°	140.3	140.3	140.3	140.3	140.3	139.7	138.9	138.5	138.7	139.1	139.4
177.5°	139.7	139.4	139.7	140.0	140.1	139.6	139.0	138.7	138.9	139.2	139.4
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



TEST NUMBER: P934206
 CATALOG NUMBER: SQ4-FA-025U-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°	2.4	1.7	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8
92.5°	16.4	10.1	3.7	10.1	16.4	18.0	25.4	35.2	40.1	35.1	25.2
95°	32.3	20.6	9.0	20.6	32.3	35.2	62.5	98.8	117.0	104.4	79.2
97.5°	36.1	25.8	15.5	25.8	36.1	38.7	84.2	144.8	175.1	167.2	151.2
100°	39.2	29.9	20.5	29.9	39.2	41.6	92.0	159.3	193.0	193.5	194.7
102.5°	42.3	33.5	24.8	33.5	42.3	44.5	95.6	163.9	198.0	208.2	228.5
105°	46.9	39.6	32.2	39.6	46.9	48.8	98.4	164.4	197.4	220.2	265.7
107.5°	53.4	46.5	39.7	46.5	53.4	55.1	98.8	157.1	186.2	218.0	281.4
110°	57.1	50.9	44.7	50.9	57.1	58.7	98.1	150.7	176.9	212.4	283.3



TEST NUMBER: P934206

CATALOG NUMBER: SQ4-FA-025U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	61.5	55.6	49.7	55.6	61.5	63.0	98.1	145.0	168.4	204.7	277.3
115°	68.0	62.6	57.2	62.6	68.0	69.4	99.0	138.5	158.2	193.2	263.1
117.5°	74.4	69.5	64.5	69.5	74.4	75.7	100.9	134.4	151.2	182.8	245.8
120°	78.2	73.5	68.8	73.5	78.2	79.3	102.3	133.0	148.3	177.2	234.9
122.5°	82.4	77.7	73.0	77.7	82.4	83.6	104.4	132.3	146.2	172.1	224.1
125°	88.1	83.8	79.5	83.8	88.1	89.2	107.4	131.7	143.8	165.9	210.1
127.5°	93.4	89.1	84.7	89.1	93.4	94.5	110.3	131.3	141.9	160.8	198.8
130°	96.9	92.2	87.5	92.2	96.9	98.1	112.5	131.6	141.1	158.0	191.8
132.5°	99.8	95.2	90.5	95.2	99.8	101.0	114.1	131.7	140.5	155.6	185.8
135°	103.3	99.0	94.8	99.0	103.3	104.3	116.0	131.6	139.4	152.0	177.3
137.5°	107.6	103.4	99.2	103.4	107.6	108.6	118.8	132.3	139.2	149.8	171.2
140°	110.6	106.7	102.8	106.7	110.6	111.5	120.5	132.5	138.5	147.8	166.3
142.5°	112.7	109.2	105.6	109.2	112.7	113.7	122.0	133.0	138.5	146.6	162.9
145°	116.2	113.0	109.9	113.0	116.2	116.9	123.8	133.0	137.6	144.2	157.5
147.5°	120.3	117.2	114.2	117.2	120.3	121.0	126.6	133.9	137.6	142.8	153.3
150°	122.5	119.7	117.0	119.7	122.5	123.2	128.0	134.4	137.6	142.0	150.8
152.5°	124.0	122.0	119.9	122.0	124.0	124.6	128.9	134.7	137.6	141.3	148.9
155°	127.3	125.7	124.2	125.7	127.3	127.7	130.9	135.3	137.6	140.6	146.6
157.5°	130.4	128.9	127.4	128.9	130.4	130.8	133.0	136.1	137.6	139.9	144.6
160°	131.9	130.7	129.5	130.7	131.9	132.2	133.9	136.4	137.6	139.5	143.6
162.5°	133.5	132.5	131.7	132.5	133.5	133.7	135.0	136.7	137.6	139.3	142.6
165°	135.6	134.8	134.0	134.8	135.6	135.8	136.4	137.2	137.6	138.8	141.2
167.5°	136.9	136.6	136.2	136.6	136.9	137.0	137.5	138.1	138.5	139.3	140.8
170°	138.3	138.0	137.6	138.0	138.3	138.4	138.4	138.5	138.5	139.3	140.8
172.5°	138.5	138.4	138.3	138.4	138.5	138.5	138.5	138.5	138.5	139.2	140.4
175°	139.4	139.4	139.4	139.4	139.4	139.4	139.1	138.7	138.5	138.9	139.7
177.5°	139.4	139.4	139.4	139.4	139.4	139.4	139.2	138.9	138.7	139.0	139.6
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



TEST NUMBER: P934206
 CATALOG NUMBER: SQ4-FA-025U-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°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	6.4	7.1	6.1
92.5°	17.7	17.0	14.2	11.4	14.2	17.0	17.7	25.2	35.1	40.1	35.2
95°	60.3	58.2	49.7	41.1	49.7	58.2	60.3	79.2	104.4	117.0	98.8
97.5°	139.3	135.1	118.9	102.6	118.9	135.1	139.3	151.2	167.2	175.1	144.8
100°	195.6	190.7	171.4	152.0	171.4	190.7	195.6	194.7	193.5	193.0	159.3
102.5°	243.7	239.5	222.9	206.2	222.9	239.5	243.7	228.5	208.2	198.0	163.9
105°	299.8	297.6	288.7	279.7	288.7	297.6	299.8	265.7	220.2	197.4	164.4
107.5°	329.0	329.6	331.8	333.9	331.8	329.6	329.0	281.4	218.0	186.2	157.1
110°	336.5	338.9	348.1	357.4	348.1	338.9	336.5	283.3	212.4	176.9	150.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	331.8	335.3	349.6	363.9	349.6	335.3	331.8	277.3	204.7	168.4	145.0
115°	315.5	320.5	340.3	360.2	340.3	320.5	315.5	263.1	193.2	158.2	138.5
117.5°	293.2	298.7	320.6	342.7	320.6	298.7	293.2	245.8	182.8	151.2	134.4
120°	278.1	283.5	304.9	326.2	304.9	283.5	278.1	234.9	177.2	148.3	133.0
122.5°	263.0	268.2	289.4	310.5	289.4	268.2	263.0	224.1	172.1	146.2	132.3
125°	243.1	248.0	267.4	286.8	267.4	248.0	243.1	210.1	165.9	143.8	131.7
127.5°	227.1	231.3	247.6	263.9	247.6	231.3	227.1	198.8	160.8	141.9	131.3
130°	217.1	220.8	235.9	251.1	235.9	220.8	217.1	191.8	158.0	141.1	131.6
132.5°	208.5	211.8	225.4	238.9	225.4	211.8	208.5	185.8	155.6	140.5	131.7
135°	196.2	199.1	210.9	222.6	210.9	199.1	196.2	177.3	152.0	139.4	131.6
137.5°	187.3	189.7	199.2	208.8	199.2	189.7	187.3	171.2	149.8	139.2	132.3
140°	180.1	182.3	191.2	200.2	191.2	182.3	180.1	166.3	147.8	138.5	132.5
142.5°	175.0	177.0	184.7	192.3	184.7	177.0	175.0	162.9	146.6	138.5	133.0
145°	167.5	169.0	174.8	180.5	174.8	169.0	167.5	157.5	144.2	137.6	133.0
147.5°	161.1	162.3	167.1	171.9	167.1	162.3	161.1	153.3	142.8	137.6	133.9
150°	157.5	158.4	162.3	166.3	162.3	158.4	157.5	150.8	142.0	137.6	134.4
152.5°	154.6	155.3	158.2	161.2	158.2	155.3	154.6	148.9	141.3	137.6	134.7
155°	151.1	151.6	153.5	155.5	153.5	151.6	151.1	146.6	140.6	137.6	135.3
157.5°	148.0	148.4	149.8	151.2	149.8	148.4	148.0	144.6	139.9	137.6	136.1
160°	146.5	146.7	147.6	148.3	147.6	146.7	146.5	143.6	139.5	137.6	136.4
162.5°	145.1	145.3	146.1	146.8	146.1	145.3	145.1	142.6	139.3	137.6	136.7
165°	143.0	143.2	144.0	144.8	144.0	143.2	143.0	141.2	138.8	137.6	137.2
167.5°	142.1	142.2	142.4	142.8	142.4	142.2	142.1	140.8	139.3	138.5	138.1
170°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	140.8	139.3	138.5	138.5
172.5°	141.3	141.2	140.9	140.7	140.9	141.2	141.3	140.4	139.2	138.5	138.5
175°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	139.7	138.9	138.5	138.7
177.5°	140.1	140.0	139.7	139.4	139.7	140.0	140.1	139.6	139.0	138.7	138.9
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



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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°	4.1	2.6	2.4	1.7	0.9
92.5°	25.4	18.0	16.4	10.1	3.7
95°	62.5	35.2	32.3	20.6	9.0
97.5°	84.2	38.7	36.1	25.8	15.5
100°	92.0	41.6	39.2	29.9	20.5
102.5°	95.6	44.5	42.3	33.5	24.8
105°	98.4	48.8	46.9	39.6	32.2
107.5°	98.8	55.1	53.4	46.5	39.7
110°	98.1	58.7	57.1	50.9	44.7



TEST NUMBER: P934206

CATALOG NUMBER: SQ4-FA-025U-125D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	98.1	63.0	61.5	55.6	49.7
115°	99.0	69.4	68.0	62.6	57.2
117.5°	100.9	75.7	74.4	69.5	64.5
120°	102.3	79.3	78.2	73.5	68.8
122.5°	104.4	83.6	82.4	77.7	73.0
125°	107.4	89.2	88.1	83.8	79.5
127.5°	110.3	94.5	93.4	89.1	84.7
130°	112.5	98.1	96.9	92.2	87.5
132.5°	114.1	101.0	99.8	95.2	90.5
135°	116.0	104.3	103.3	99.0	94.8
137.5°	118.8	108.6	107.6	103.4	99.2
140°	120.5	111.5	110.6	106.7	102.8
142.5°	122.0	113.7	112.7	109.2	105.6
145°	123.8	116.9	116.2	113.0	109.9
147.5°	126.6	121.0	120.3	117.2	114.2
150°	128.0	123.2	122.5	119.7	117.0
152.5°	128.9	124.6	124.0	122.0	119.9
155°	130.9	127.7	127.3	125.7	124.2
157.5°	133.0	130.8	130.4	128.9	127.4
160°	133.9	132.2	131.9	130.7	129.5
162.5°	135.0	133.7	133.5	132.5	131.7
165°	136.4	135.8	135.6	134.8	134.0
167.5°	137.5	137.0	136.9	136.6	136.2
170°	138.4	138.4	138.3	138.0	137.6
172.5°	138.5	138.5	138.5	138.4	138.3
175°	139.1	139.4	139.4	139.4	139.4
177.5°	139.2	139.4	139.4	139.4	139.4
180°	139.4	139.4	139.4	139.4	139.4



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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	16.93	18.19	17.54	18.81	19.52	19.73	20.98	20.34	21.61	22.32
	3H	17.43	18.57	18.06	19.20	19.95	21.09	22.22	21.72	22.86	23.61
	4H	17.64	18.71	18.29	19.36	20.12	21.55	22.61	22.19	23.26	24.02
	6H	17.78	18.77	18.44	19.43	20.20	21.84	22.83	22.50	23.49	24.26
	8H	17.80	18.73	18.47	19.41	20.19	21.92	22.86	22.60	23.54	24.32
	12H	17.78	18.68	18.46	19.35	20.16	21.97	22.87	22.65	23.54	24.35
4H	2H	18.00	19.07	18.65	19.72	20.48	20.18	21.25	20.83	21.90	22.66
	3H	19.06	19.95	19.73	20.64	21.42	21.72	22.61	22.38	23.29	24.07
	4H	19.35	20.16	20.04	20.85	21.66	22.25	23.06	22.93	23.75	24.56
	6H	19.50	20.20	20.20	20.92	21.74	22.63	23.33	23.33	24.05	24.87
	8H	19.52	20.17	20.22	20.89	21.72	22.74	23.40	23.45	24.11	24.94
	12H	19.50	20.09	20.23	20.83	21.67	22.81	23.40	23.54	24.14	24.98
8H	4H	19.84	20.49	20.54	21.20	22.04	22.41	23.06	23.12	23.78	24.61
	6H	20.11	20.66	20.85	21.41	22.25	22.85	23.40	23.59	24.15	24.99
	8H	20.16	20.64	20.91	21.40	22.25	23.01	23.49	23.75	24.25	25.10
	12H	20.16	20.59	20.91	21.34	22.25	23.12	23.54	23.87	24.29	25.20
12H	4H	19.86	20.45	20.59	21.19	22.02	22.39	22.98	23.12	23.72	24.56
	6H	20.18	20.66	20.92	21.42	22.27	22.85	23.34	23.60	24.10	24.95
	8H	20.26	20.69	21.01	21.44	22.35	23.03	23.46	23.78	24.21	25.12