

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: P934202

Luminaire Tested: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934202
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-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

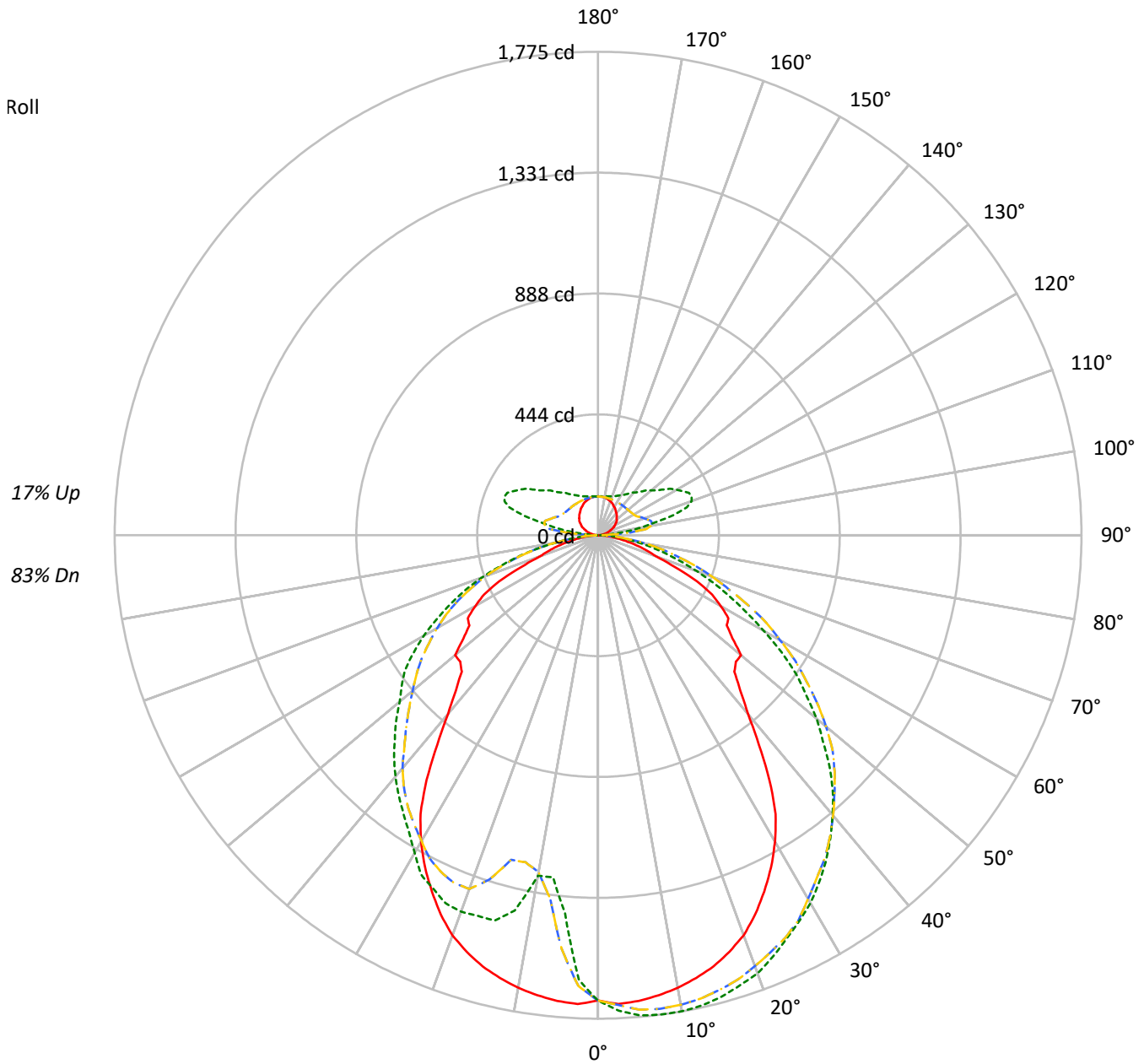
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5353.7 lumens
Efficiency: N/A
Efficacy: 107.9 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

TEST NUMBER: P934202
CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	86	86	83
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	73	73	70
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	62	62	59
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	52	52	50
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	45	45	43
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	39	39	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	35	35	32
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	31	31	29
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	28	28	26
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15852	15852	15852	15852
5°	15952	16001	15952	12582
10°	15829	15763	15829	11269
15°	15638	15421	15638	12876
20°	15294	15017	15294	12903
25°	14606	14426	14606	12630
30°	13725	13936	13725	12030
35°	12217	13317	12217	11370
40°	10162	12587	10162	10872
45°	9062	11733	9062	10299
50°	9605	10715	9605	9723
55°	9013	9618	9013	9390
60°	9257	8169	9257	8600
65°	8352	6753	8352	7548
70°	5743	5382	5743	6326
75°	4981	3977	4981	4764
80°	3931	2629	3931	2862
85°	2145	1394	2145	1183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13917 cd/sqm



TEST NUMBER: P934202

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	2.9
10°-20°	437.8	8.2
20°-30°	676.8	12.6
30°-40°	807.9	15.1
40°-50°	812.7	15.2
50°-60°	707.1	13.2
60°-70°	501.4	9.4
70°-80°	265.3	5.0
80°-90°	66.6	1.2
90°-100°	69.5	1.3
100°-110°	182.7	3.4
110°-120°	189.4	3.5
120°-130°	151.9	2.8
130°-140°	119.2	2.2
140°-150°	91.5	1.7
150°-160°	65.9	1.2
160°-170°	40.3	0.8
170°-180°	13.6	0.3
0°-30°	1268.8	23.7
0°-40°	2076.8	38.8
0°-60°	3596.6	67.2
0°-90°	4429.8	82.7
90°-120°	441.5	8.2
90°-150°	804.1	15.0
90°-180°	924.0	17.3
0°-180°	5353.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1708	1708	1708	1708	1708	
5°	1716	1770	1716	1392	1716	163
15°	1639	1754	1639	1464	1639	461
25°	1443	1636	1443	1432	1443	663
35°	1097	1459	1097	1246	1097	679
45°	708	1202	708	1055	708	567
55°	577	887	577	866	577	530
65°	401	535	401	598	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	1	4	1	4	1	2
95°	9	42	9	42	9	10
105°	33	286	33	286	33	35
115°	58	368	58	368	58	58
125°	81	293	81	293	81	72
135°	97	228	97	228	97	75
145°	112	185	112	185	112	70
155°	127	159	127	159	127	58
165°	137	148	137	148	137	39
175°	142	143	142	143	142	14
180°	142	142	142	142	142	



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CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1722.8	1722.8	1732.6	1735.8	1735.8	1730.9	1726.1	1730.9	1745.5	1750.3	1748.7
5°	1716.3	1729.3	1747.1	1750.3	1753.6	1751.9	1748.7	1751.9	1768.1	1771.3	1773.0
7.5°	1703.4	1727.7	1750.3	1755.2	1760.0	1755.2	1753.6	1756.8	1773.0	1776.2	1776.2
10°	1687.3	1721.2	1747.1	1750.3	1755.2	1750.3	1750.3	1756.8	1773.0	1776.2	1777.8
12.5°	1664.7	1711.6	1735.8	1739.0	1745.5	1743.8	1742.2	1748.7	1764.8	1768.1	1768.1
15°	1638.8	1693.8	1716.3	1719.6	1730.9	1727.7	1727.7	1734.2	1751.9	1756.8	1755.2
17.5°	1603.3	1671.2	1696.9	1701.8	1709.9	1708.3	1709.9	1716.3	1732.6	1735.8	1737.3
20°	1562.9	1640.4	1671.2	1675.9	1684.0	1684.0	1684.0	1692.2	1708.3	1714.8	1714.8
22.5°	1507.8	1608.1	1640.4	1643.7	1653.3	1653.3	1656.5	1667.9	1682.4	1684.0	1684.0
25°	1443.2	1572.5	1600.0	1609.7	1619.4	1624.3	1629.1	1635.5	1640.4	1638.8	1640.4
27.5°	1375.4	1527.2	1562.9	1569.3	1582.2	1587.1	1593.5	1595.1	1596.8	1601.6	1598.4
30°	1299.4	1464.2	1517.6	1524.1	1545.1	1548.2	1541.8	1545.1	1553.1	1556.4	1559.6
32.5°	1213.7	1370.5	1470.7	1485.2	1504.7	1495.0	1493.3	1498.2	1511.1	1511.1	1514.3
35°	1097.4	1297.7	1427.1	1440.0	1454.6	1443.2	1449.7	1451.3	1459.4	1464.2	1462.7
37.5°	969.7	1234.7	1381.8	1391.5	1402.8	1388.3	1398.0	1402.8	1409.3	1406.0	1406.0
40°	856.5	1136.2	1328.5	1335.0	1344.6	1333.4	1343.0	1346.3	1349.5	1346.3	1344.6
42.5°	772.5	1027.9	1272.0	1280.0	1273.5	1281.6	1284.9	1291.4	1286.5	1280.0	1280.0
45°	707.8	998.8	1210.5	1220.2	1210.5	1223.5	1228.3	1228.3	1213.7	1210.5	1208.9
47.5°	686.8	940.6	1149.1	1149.1	1144.3	1160.4	1168.4	1157.2	1142.7	1137.8	1137.8
50°	685.2	875.9	1065.0	1058.6	1081.3	1100.6	1092.5	1081.3	1069.9	1052.1	1052.1
52.5°	622.2	796.8	956.8	981.0	1016.6	1027.9	1015.0	1003.6	984.2	976.2	969.7
55°	577.0	714.3	858.2	906.7	943.8	958.3	934.2	922.8	893.8	888.9	885.7
57.5°	567.3	594.8	767.7	829.1	874.3	872.8	858.2	837.2	812.9	808.1	806.5
60°	520.4	429.9	670.7	743.5	790.3	785.5	772.5	753.1	730.5	727.2	724.1
62.5°	472.0	311.9	560.8	643.2	709.5	707.8	696.6	667.4	651.3	643.2	636.8
65°	400.8	261.9	399.2	535.0	630.3	633.5	609.3	588.3	570.5	560.8	559.2
67.5°	305.4	213.3	269.9	446.1	554.4	551.1	520.4	510.7	488.1	483.2	473.6
70°	226.2	142.2	187.5	362.0	480.0	472.0	447.7	436.3	415.3	404.1	397.6
72.5°	187.5	114.8	137.3	281.2	404.1	394.3	373.3	360.4	342.7	332.9	326.4
75°	151.9	121.2	105.0	208.5	328.0	321.6	302.3	289.3	274.8	261.9	263.4
77.5°	111.5	113.2	84.0	153.6	260.2	250.5	239.2	223.0	216.6	203.6	203.6
80°	84.0	88.9	63.0	105.0	187.5	187.5	177.8	166.5	155.2	148.7	148.7
82.5°	56.5	56.5	46.9	66.3	127.7	122.8	116.3	113.2	106.7	103.4	103.4
85°	25.9	32.3	29.1	40.4	69.5	72.8	72.8	69.5	67.9	64.7	66.3
87.5°	8.1	14.5	17.8	22.6	35.5	37.1	38.8	38.8	38.8	40.4	40.4
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.4	26.0	36.0	41.0	35.9	25.8	18.1	17.4
95°	9.2	21.1	33.0	36.0	63.9	101.0	119.7	106.8	81.0	61.7	59.5
97.5°	15.9	26.4	36.9	39.5	86.0	148.0	179.1	170.9	154.6	142.4	138.2
100°	21.0	30.6	40.1	42.5	94.1	162.9	197.3	197.9	199.1	200.0	195.0
102.5°	25.4	34.3	43.3	45.5	97.8	167.6	202.5	212.9	233.6	249.2	244.9
105°	32.9	40.5	47.9	49.9	100.6	168.1	201.9	225.2	271.7	306.6	304.3
107.5°	40.6	47.6	54.6	56.3	101.0	160.6	190.4	222.9	287.7	336.4	337.0
110°	45.7	52.0	58.4	60.0	100.3	154.0	180.9	217.2	289.7	344.1	346.5



TEST NUMBER: P934202

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.8	56.8	62.8	64.4	100.3	148.2	172.2	209.3	283.5	339.2	342.8
115°	58.4	64.0	69.5	71.0	101.2	141.6	161.8	197.5	269.0	322.6	327.7
117.5°	66.0	71.1	76.1	77.4	103.1	137.4	154.6	186.9	251.4	299.8	305.4
120°	70.4	75.2	79.9	81.1	104.6	136.0	151.7	181.2	240.2	284.4	289.8
122.5°	74.7	79.5	84.2	85.5	106.8	135.2	149.5	176.0	229.1	268.9	274.3
125°	81.3	85.7	90.1	91.2	109.8	134.7	147.1	169.6	214.8	248.6	253.6
127.5°	86.6	91.1	95.5	96.6	112.8	134.3	145.1	164.5	203.2	232.3	236.5
130°	89.5	94.3	99.0	100.3	115.0	134.6	144.3	161.6	196.1	221.9	225.8
132.5°	92.5	97.3	102.1	103.2	116.7	134.7	143.6	159.1	189.9	213.2	216.6
135°	96.9	101.2	105.6	106.7	118.6	134.6	142.5	155.4	181.3	200.6	203.6
137.5°	101.4	105.7	110.0	111.1	121.5	135.3	142.3	153.2	175.1	191.5	194.0
140°	105.1	109.1	113.1	114.0	123.2	135.5	141.6	151.1	170.0	184.1	186.4
142.5°	108.0	111.6	115.3	116.2	124.7	136.0	141.6	149.9	166.6	179.0	181.0
145°	112.4	115.6	118.8	119.6	126.6	136.0	140.7	147.5	161.0	171.2	172.8
147.5°	116.8	119.9	123.0	123.8	129.4	136.9	140.7	146.0	156.7	164.7	166.0
150°	119.7	122.4	125.3	126.0	130.8	137.4	140.7	145.2	154.2	161.0	162.0
152.5°	122.6	124.7	126.8	127.4	131.8	137.7	140.7	144.5	152.2	158.1	158.8
155°	127.0	128.5	130.2	130.5	133.9	138.4	140.7	143.7	149.9	154.5	155.0
157.5°	130.3	131.8	133.3	133.7	136.0	139.1	140.7	143.1	147.8	151.4	151.7
160°	132.5	133.6	134.8	135.1	136.9	139.4	140.7	142.7	146.8	149.8	150.0
162.5°	134.7	135.5	136.5	136.7	138.0	139.8	140.7	142.4	145.8	148.4	148.6
165°	137.0	137.8	138.7	138.9	139.4	140.3	140.7	141.9	144.4	146.2	146.4
167.5°	139.2	139.6	140.0	140.1	140.6	141.2	141.6	142.4	144.0	145.3	145.4
170°	140.7	141.1	141.4	141.5	141.5	141.6	141.6	142.4	144.0	145.3	145.3
172.5°	141.4	141.5	141.6	141.6	141.6	141.6	141.6	142.3	143.5	144.5	144.4
175°	142.5	142.5	142.5	142.5	142.2	141.8	141.6	142.0	142.9	143.4	143.4
177.5°	142.5	142.5	142.5	142.5	142.3	142.0	141.8	142.1	142.8	143.2	143.2
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1751.9	1747.1	1751.9	1748.7	1750.3	1745.5	1730.9	1726.1	1730.9	1735.8	1735.8
5°	1773.0	1769.7	1773.0	1773.0	1771.3	1768.1	1751.9	1748.7	1751.9	1753.6	1750.3
7.5°	1779.4	1774.6	1779.4	1776.2	1776.2	1773.0	1756.8	1753.6	1755.2	1760.0	1755.2
10°	1779.4	1774.6	1779.4	1777.8	1776.2	1773.0	1756.8	1750.3	1750.3	1755.2	1750.3
12.5°	1771.3	1768.1	1771.3	1768.1	1768.1	1764.8	1748.7	1742.2	1743.8	1745.5	1739.0
15°	1758.3	1753.6	1758.3	1755.2	1756.8	1751.9	1734.2	1727.7	1727.7	1730.9	1719.6
17.5°	1739.0	1732.6	1739.0	1737.3	1735.8	1732.6	1716.3	1709.9	1708.3	1709.9	1701.8
20°	1716.3	1711.6	1716.3	1714.8	1714.8	1708.3	1692.2	1684.0	1684.0	1684.0	1675.9
22.5°	1680.8	1675.9	1680.8	1684.0	1684.0	1682.4	1667.9	1656.5	1653.3	1653.3	1643.7
25°	1640.4	1635.5	1640.4	1640.4	1638.8	1640.4	1635.5	1629.1	1624.3	1619.4	1609.7
27.5°	1601.6	1598.4	1601.6	1598.4	1601.6	1596.8	1595.1	1593.5	1587.1	1582.2	1569.3
30°	1562.9	1559.6	1562.9	1559.6	1556.4	1553.1	1545.1	1541.8	1548.2	1545.1	1524.1
32.5°	1514.3	1511.1	1514.3	1514.3	1511.1	1511.1	1498.2	1493.3	1495.0	1504.7	1485.2
35°	1464.2	1459.4	1464.2	1462.7	1464.2	1459.4	1451.3	1449.7	1443.2	1454.6	1440.0
37.5°	1406.0	1401.2	1406.0	1406.0	1406.0	1409.3	1402.8	1398.0	1388.3	1402.8	1391.5
40°	1346.3	1339.8	1346.3	1344.6	1346.3	1349.5	1346.3	1343.0	1333.4	1344.6	1335.0
42.5°	1278.4	1276.7	1278.4	1280.0	1280.0	1286.5	1291.4	1284.9	1281.6	1273.5	1280.0
45°	1205.7	1202.4	1205.7	1208.9	1210.5	1213.7	1228.3	1228.3	1223.5	1210.5	1220.2
47.5°	1128.0	1120.0	1128.0	1137.8	1137.8	1142.7	1157.2	1168.4	1160.4	1144.3	1149.1
50°	1045.6	1047.3	1045.6	1052.1	1052.1	1069.9	1081.3	1092.5	1100.6	1081.3	1058.6
52.5°	964.8	963.2	964.8	969.7	976.2	984.2	1003.6	1015.0	1027.9	1016.6	981.0
55°	884.0	887.3	884.0	885.7	888.9	893.8	922.8	934.2	958.3	943.8	906.7
57.5°	803.3	798.4	803.3	806.5	808.1	812.9	837.2	858.2	872.8	874.3	829.1
60°	709.5	703.1	709.5	724.1	727.2	730.5	753.1	772.5	785.5	790.3	743.5
62.5°	627.1	615.8	627.1	636.8	643.2	651.3	667.4	696.6	707.8	709.5	643.2
65°	539.8	535.0	539.8	559.2	560.8	570.5	588.3	609.3	633.5	630.3	535.0
67.5°	460.6	460.6	460.6	473.6	483.2	488.1	510.7	520.4	551.1	554.4	446.1
70°	387.9	386.3	387.9	397.6	404.1	415.3	436.3	447.7	472.0	480.0	362.0
72.5°	318.4	316.8	318.4	326.4	332.9	342.7	360.4	373.3	394.3	404.1	281.2
75°	257.0	253.7	257.0	263.4	261.9	274.8	289.3	302.3	321.6	328.0	208.5
77.5°	197.2	197.2	197.2	203.6	203.6	216.6	223.0	239.2	250.5	260.2	153.6
80°	147.1	145.4	147.1	148.7	148.7	155.2	166.5	177.8	187.5	187.5	105.0
82.5°	103.4	100.2	103.4	103.4	103.4	106.7	113.2	116.3	122.8	127.7	66.3
85°	64.7	64.7	64.7	66.3	64.7	67.9	69.5	72.8	72.8	69.5	40.4
87.5°	42.0	40.4	42.0	40.4	40.4	38.8	38.8	38.8	37.1	35.5	22.6
90°	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2	4.2	2.7
92.5°	14.5	11.7	14.5	17.4	18.1	25.8	35.9	41.0	36.0	26.0	18.4
95°	50.8	42.0	50.8	59.5	61.7	81.0	106.8	119.7	101.0	63.9	36.0
97.5°	121.6	105.0	121.6	138.2	142.4	154.6	170.9	179.1	148.0	86.0	39.5
100°	175.2	155.4	175.2	195.0	200.0	199.1	197.9	197.3	162.9	94.1	42.5
102.5°	227.9	210.9	227.9	244.9	249.2	233.6	212.9	202.5	167.6	97.8	45.5
105°	295.2	286.0	295.2	304.3	306.6	271.7	225.2	201.9	168.1	100.6	49.9
107.5°	339.2	341.4	339.2	337.0	336.4	287.7	222.9	190.4	160.6	101.0	56.3
110°	355.9	365.5	355.9	346.5	344.1	289.7	217.2	180.9	154.0	100.3	60.0



TEST NUMBER: P934202
 CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.5	372.1	357.5	342.8	339.2	283.5	209.3	172.2	148.2	100.3	64.4
115°	348.0	368.2	348.0	327.7	322.6	269.0	197.5	161.8	141.6	101.2	71.0
117.5°	327.9	350.4	327.9	305.4	299.8	251.4	186.9	154.6	137.4	103.1	77.4
120°	311.7	333.5	311.7	289.8	284.4	240.2	181.2	151.7	136.0	104.6	81.1
122.5°	295.9	317.4	295.9	274.3	268.9	229.1	176.0	149.5	135.2	106.8	85.5
125°	273.4	293.3	273.4	253.6	248.6	214.8	169.6	147.1	134.7	109.8	91.2
127.5°	253.2	269.9	253.2	236.5	232.3	203.2	164.5	145.1	134.3	112.8	96.6
130°	241.2	256.7	241.2	225.8	221.9	196.1	161.6	144.3	134.6	115.0	100.3
132.5°	230.4	244.3	230.4	216.6	213.2	189.9	159.1	143.6	134.7	116.7	103.2
135°	215.6	227.6	215.6	203.6	200.6	181.3	155.4	142.5	134.6	118.6	106.7
137.5°	203.7	213.5	203.7	194.0	191.5	175.1	153.2	142.3	135.3	121.5	111.1
140°	195.5	204.7	195.5	186.4	184.1	170.0	151.1	141.6	135.5	123.2	114.0
142.5°	188.8	196.6	188.8	181.0	179.0	166.6	149.9	141.6	136.0	124.7	116.2
145°	178.7	184.6	178.7	172.8	171.2	161.0	147.5	140.7	136.0	126.6	119.6
147.5°	170.8	175.8	170.8	166.0	164.7	156.7	146.0	140.7	136.9	129.4	123.8
150°	166.0	170.0	166.0	162.0	161.0	154.2	145.2	140.7	137.4	130.8	126.0
152.5°	161.8	164.8	161.8	158.8	158.1	152.2	144.5	140.7	137.7	131.8	127.4
155°	157.0	159.0	157.0	155.0	154.5	149.9	143.7	140.7	138.4	133.9	130.5
157.5°	153.2	154.6	153.2	151.7	151.4	147.8	143.1	140.7	139.1	136.0	133.7
160°	150.9	151.7	150.9	150.0	149.8	146.8	142.7	140.7	139.4	136.9	135.1
162.5°	149.4	150.1	149.4	148.6	148.4	145.8	142.4	140.7	139.8	138.0	136.7
165°	147.3	148.0	147.3	146.4	146.2	144.4	141.9	140.7	140.3	139.4	138.9
167.5°	145.6	146.0	145.6	145.4	145.3	144.0	142.4	141.6	141.2	140.6	140.1
170°	145.3	145.3	145.3	145.3	145.3	144.0	142.4	141.6	141.6	141.5	141.5
172.5°	144.1	143.8	144.1	144.4	144.5	143.5	142.3	141.6	141.6	141.6	141.6
175°	143.4	143.4	143.4	143.4	143.4	142.9	142.0	141.6	141.8	142.2	142.5
177.5°	142.9	142.5	142.9	143.2	143.2	142.8	142.1	141.8	142.0	142.3	142.5
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P934202

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1732.6	1722.8	1722.8	1706.7	1700.2	1695.3	1687.3	1663.0	1656.5	1650.1	1659.8
5°	1747.1	1729.3	1716.3	1687.3	1663.0	1653.3	1622.6	1564.5	1525.7	1496.6	1480.4
7.5°	1750.3	1727.7	1703.4	1658.2	1600.0	1574.1	1480.4	1373.8	1344.6	1318.8	1302.6
10°	1747.1	1721.2	1687.3	1619.4	1482.1	1436.8	1343.0	1273.5	1255.7	1251.0	1255.7
12.5°	1735.8	1711.6	1664.7	1551.5	1359.2	1328.5	1273.5	1233.1	1229.9	1238.0	1281.6
15°	1716.3	1693.8	1638.8	1461.1	1291.4	1268.7	1229.9	1215.3	1233.1	1289.7	1420.7
17.5°	1696.9	1671.2	1603.3	1372.1	1239.6	1223.5	1195.9	1225.1	1325.3	1401.2	1444.8
20°	1671.2	1640.4	1562.9	1307.5	1202.4	1187.9	1174.9	1305.9	1381.8	1409.3	1433.6
22.5°	1640.4	1608.1	1507.8	1262.2	1163.7	1152.3	1160.4	1351.1	1381.8	1401.2	1422.2
25°	1600.0	1572.5	1443.2	1226.7	1132.9	1120.0	1150.7	1346.3	1364.0	1368.9	1410.9
27.5°	1562.9	1527.2	1375.4	1194.3	1095.8	1090.9	1158.8	1325.3	1338.1	1343.0	1388.3
30°	1517.6	1464.2	1299.4	1160.4	1057.0	1055.4	1160.4	1299.4	1296.1	1309.1	1354.4
32.5°	1470.7	1370.5	1213.7	1118.4	1019.8	1018.2	1149.1	1260.6	1257.4	1275.1	1309.1
35°	1427.1	1297.7	1097.4	1069.9	973.0	974.6	1121.6	1215.3	1217.0	1233.1	1254.1
37.5°	1381.8	1234.7	969.7	1016.6	927.7	927.7	1084.4	1173.3	1170.1	1174.9	1204.1
40°	1328.5	1136.2	856.5	947.1	885.7	880.8	1039.2	1128.0	1116.8	1115.2	1155.6
42.5°	1272.0	1027.9	772.5	854.9	837.2	830.8	984.2	1073.1	1052.1	1057.0	1108.7
45°	1210.5	998.8	707.8	722.5	787.1	782.2	924.4	1010.1	995.6	1008.5	1061.9
47.5°	1149.1	940.6	686.8	599.6	733.7	732.1	858.2	948.7	940.6	953.6	1010.1
50°	1065.0	875.9	685.2	514.0	673.9	680.4	779.0	888.9	888.9	900.2	960.0
52.5°	956.8	796.8	622.2	465.5	604.4	623.8	709.5	837.2	840.4	851.8	905.1
55°	858.2	714.3	577.0	428.3	522.0	564.0	641.7	783.9	790.3	801.6	850.1
57.5°	767.7	594.8	567.3	384.7	446.1	486.5	581.8	732.1	735.4	745.1	791.9
60°	670.7	429.9	520.4	337.8	379.8	410.5	526.9	670.7	682.1	688.5	728.9
62.5°	560.8	311.9	472.0	305.4	347.4	353.9	481.6	612.5	627.1	631.9	656.2
65°	399.2	261.9	400.8	278.0	313.5	315.2	433.1	552.8	565.6	573.8	591.5
67.5°	269.9	213.3	305.4	252.1	287.6	289.3	386.3	483.2	501.0	507.5	518.8
70°	187.5	142.2	226.2	224.6	258.6	261.9	336.2	420.2	436.3	441.2	447.7
72.5°	137.3	114.8	187.5	202.0	227.9	231.1	284.4	349.1	365.3	370.1	373.3
75°	105.0	121.2	151.9	176.2	194.0	195.6	232.7	284.4	295.8	299.0	300.6
77.5°	84.0	113.2	111.5	142.2	158.3	155.2	182.6	219.8	229.5	229.5	229.5
80°	63.0	88.9	84.0	101.8	116.3	113.2	130.9	156.8	160.0	163.2	161.6
82.5°	46.9	56.5	56.5	64.7	77.5	74.3	87.3	101.8	101.8	101.8	105.0
85°	29.1	32.3	25.9	33.9	43.6	42.0	48.5	54.9	56.5	56.5	53.3
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.6	24.3	22.6	22.6	22.6
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9
92.5°	16.8	10.3	3.8	10.3	16.8	18.4	26.0	36.0	41.0	35.9	25.8
95°	33.0	21.1	9.2	21.1	33.0	36.0	63.9	101.0	119.7	106.8	81.0
97.5°	36.9	26.4	15.9	26.4	36.9	39.5	86.0	148.0	179.1	170.9	154.6
100°	40.1	30.6	21.0	30.6	40.1	42.5	94.1	162.9	197.3	197.9	199.1
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.8	167.6	202.5	212.9	233.6
105°	47.9	40.5	32.9	40.5	47.9	49.9	100.6	168.1	201.9	225.2	271.7
107.5°	54.6	47.6	40.6	47.6	54.6	56.3	101.0	160.6	190.4	222.9	287.7
110°	58.4	52.0	45.7	52.0	58.4	60.0	100.3	154.0	180.9	217.2	289.7



TEST NUMBER: P934202

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	62.8	56.8	50.8	56.8	62.8	64.4	100.3	148.2	172.2	209.3	283.5
115°	69.5	64.0	58.4	64.0	69.5	71.0	101.2	141.6	161.8	197.5	269.0
117.5°	76.1	71.1	66.0	71.1	76.1	77.4	103.1	137.4	154.6	186.9	251.4
120°	79.9	75.2	70.4	75.2	79.9	81.1	104.6	136.0	151.7	181.2	240.2
122.5°	84.2	79.5	74.7	79.5	84.2	85.5	106.8	135.2	149.5	176.0	229.1
125°	90.1	85.7	81.3	85.7	90.1	91.2	109.8	134.7	147.1	169.6	214.8
127.5°	95.5	91.1	86.6	91.1	95.5	96.6	112.8	134.3	145.1	164.5	203.2
130°	99.0	94.3	89.5	94.3	99.0	100.3	115.0	134.6	144.3	161.6	196.1
132.5°	102.1	97.3	92.5	97.3	102.1	103.2	116.7	134.7	143.6	159.1	189.9
135°	105.6	101.2	96.9	101.2	105.6	106.7	118.6	134.6	142.5	155.4	181.3
137.5°	110.0	105.7	101.4	105.7	110.0	111.1	121.5	135.3	142.3	153.2	175.1
140°	113.1	109.1	105.1	109.1	113.1	114.0	123.2	135.5	141.6	151.1	170.0
142.5°	115.3	111.6	108.0	111.6	115.3	116.2	124.7	136.0	141.6	149.9	166.6
145°	118.8	115.6	112.4	115.6	118.8	119.6	126.6	136.0	140.7	147.5	161.0
147.5°	123.0	119.9	116.8	119.9	123.0	123.8	129.4	136.9	140.7	146.0	156.7
150°	125.3	122.4	119.7	122.4	125.3	126.0	130.8	137.4	140.7	145.2	154.2
152.5°	126.8	124.7	122.6	124.7	126.8	127.4	131.8	137.7	140.7	144.5	152.2
155°	130.2	128.5	127.0	128.5	130.2	130.5	133.9	138.4	140.7	143.7	149.9
157.5°	133.3	131.8	130.3	131.8	133.3	133.7	136.0	139.1	140.7	143.1	147.8
160°	134.8	133.6	132.5	133.6	134.8	135.1	136.9	139.4	140.7	142.7	146.8
162.5°	136.5	135.5	134.7	135.5	136.5	136.7	138.0	139.8	140.7	142.4	145.8
165°	138.7	137.8	137.0	137.8	138.7	138.9	139.4	140.3	140.7	141.9	144.4
167.5°	140.0	139.6	139.2	139.6	140.0	140.1	140.6	141.2	141.6	142.4	144.0
170°	141.4	141.1	140.7	141.1	141.4	141.5	141.5	141.6	141.6	142.4	144.0
172.5°	141.6	141.5	141.4	141.5	141.6	141.6	141.6	141.6	141.6	142.3	143.5
175°	142.5	142.5	142.5	142.5	142.5	142.5	142.2	141.8	141.6	142.0	142.9
177.5°	142.5	142.5	142.5	142.5	142.5	142.5	142.3	142.0	141.8	142.1	142.8
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P934202

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1648.5	1643.7	1650.1	1632.3	1650.1	1643.7	1648.5	1659.8	1650.1	1656.5	1663.0
5°	1446.4	1438.4	1412.5	1391.5	1412.5	1438.4	1446.4	1480.4	1496.6	1525.7	1564.5
7.5°	1293.0	1286.5	1280.0	1267.1	1280.0	1286.5	1293.0	1302.6	1318.8	1344.6	1373.8
10°	1259.0	1260.6	1270.3	1268.7	1270.3	1260.6	1259.0	1255.7	1251.0	1255.7	1273.5
12.5°	1346.3	1360.8	1414.2	1410.9	1414.2	1360.8	1346.3	1281.6	1238.0	1229.9	1233.1
15°	1446.4	1451.3	1462.7	1464.2	1462.7	1451.3	1446.4	1420.7	1289.7	1233.1	1215.3
17.5°	1456.2	1457.8	1465.8	1465.8	1465.8	1457.8	1456.2	1444.8	1401.2	1325.3	1225.1
20°	1448.1	1451.3	1467.5	1470.7	1467.5	1451.3	1448.1	1433.6	1409.3	1381.8	1305.9
22.5°	1444.8	1451.3	1464.2	1462.7	1464.2	1451.3	1444.8	1422.2	1401.2	1381.8	1351.1
25°	1428.7	1428.7	1430.3	1431.9	1430.3	1428.7	1428.7	1410.9	1368.9	1364.0	1346.3
27.5°	1394.8	1398.0	1407.7	1406.0	1407.7	1398.0	1394.8	1388.3	1343.0	1338.1	1325.3
30°	1364.0	1360.8	1352.8	1346.3	1352.8	1360.8	1364.0	1354.4	1309.1	1296.1	1299.4
32.5°	1312.4	1304.2	1296.1	1291.4	1296.1	1304.2	1312.4	1309.1	1275.1	1257.4	1260.6
35°	1251.0	1252.5	1251.0	1246.1	1251.0	1252.5	1251.0	1254.1	1233.1	1217.0	1215.3
37.5°	1207.3	1210.5	1208.9	1202.4	1208.9	1210.5	1207.3	1204.1	1174.9	1170.1	1173.3
40°	1162.0	1163.7	1162.0	1157.2	1162.0	1163.7	1162.0	1155.6	1115.2	1116.8	1128.0
42.5°	1118.4	1116.8	1111.9	1108.7	1111.9	1116.8	1118.4	1108.7	1057.0	1052.1	1073.1
45°	1068.3	1069.9	1060.2	1055.4	1060.2	1069.9	1068.3	1061.9	1008.5	995.6	1010.1
47.5°	1018.2	1018.2	1010.1	1005.2	1010.1	1018.2	1018.2	1010.1	953.6	940.6	948.7
50°	964.8	963.2	951.9	950.3	951.9	963.2	964.8	960.0	900.2	888.9	888.9
52.5°	903.4	903.4	905.1	908.3	905.1	903.4	903.4	905.1	851.8	840.4	837.2
55°	850.1	851.8	863.0	866.3	863.0	851.8	850.1	850.1	801.6	790.3	783.9
57.5°	795.1	795.1	803.3	803.3	803.3	795.1	795.1	791.9	745.1	735.4	732.1
60°	732.1	735.4	741.8	740.2	741.8	735.4	732.1	728.9	688.5	682.1	670.7
62.5°	665.8	669.1	670.7	667.4	670.7	669.1	665.8	656.2	631.9	627.1	612.5
65°	596.4	599.6	601.2	598.0	601.2	599.6	596.4	591.5	573.8	565.6	552.8
67.5°	525.2	523.6	522.0	528.5	522.0	523.6	525.2	518.8	507.5	501.0	483.2
70°	452.5	452.5	451.0	454.1	451.0	452.5	452.5	447.7	441.2	436.3	420.2
72.5°	374.9	373.3	379.8	374.9	379.8	373.3	374.9	373.3	370.1	365.3	349.1
75°	299.0	302.3	299.0	303.9	299.0	302.3	299.0	300.6	299.0	295.8	284.4
77.5°	227.9	231.1	227.9	227.9	227.9	231.1	227.9	229.5	229.5	229.5	219.8
80°	161.6	160.0	160.0	158.3	160.0	160.0	161.6	161.6	163.2	160.0	156.8
82.5°	103.4	101.8	101.8	105.0	101.8	101.8	103.4	105.0	101.8	101.8	101.8
85°	56.5	58.2	54.9	54.9	54.9	58.2	56.5	53.3	56.5	56.5	54.9
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.6	22.6	22.6	24.3
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2
92.5°	18.1	17.4	14.5	11.7	14.5	17.4	18.1	25.8	35.9	41.0	36.0
95°	61.7	59.5	50.8	42.0	50.8	59.5	61.7	81.0	106.8	119.7	101.0
97.5°	142.4	138.2	121.6	105.0	121.6	138.2	142.4	154.6	170.9	179.1	148.0
100°	200.0	195.0	175.2	155.4	175.2	195.0	200.0	199.1	197.9	197.3	162.9
102.5°	249.2	244.9	227.9	210.9	227.9	244.9	249.2	233.6	212.9	202.5	167.6
105°	306.6	304.3	295.2	286.0	295.2	304.3	306.6	271.7	225.2	201.9	168.1
107.5°	336.4	337.0	339.2	341.4	339.2	337.0	336.4	287.7	222.9	190.4	160.6
110°	344.1	346.5	355.9	365.5	355.9	346.5	344.1	289.7	217.2	180.9	154.0



TEST NUMBER: P934202

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	339.2	342.8	357.5	372.1	357.5	342.8	339.2	283.5	209.3	172.2	148.2
115°	322.6	327.7	348.0	368.2	348.0	327.7	322.6	269.0	197.5	161.8	141.6
117.5°	299.8	305.4	327.9	350.4	327.9	305.4	299.8	251.4	186.9	154.6	137.4
120°	284.4	289.8	311.7	333.5	311.7	289.8	284.4	240.2	181.2	151.7	136.0
122.5°	268.9	274.3	295.9	317.4	295.9	274.3	268.9	229.1	176.0	149.5	135.2
125°	248.6	253.6	273.4	293.3	273.4	253.6	248.6	214.8	169.6	147.1	134.7
127.5°	232.3	236.5	253.2	269.9	253.2	236.5	232.3	203.2	164.5	145.1	134.3
130°	221.9	225.8	241.2	256.7	241.2	225.8	221.9	196.1	161.6	144.3	134.6
132.5°	213.2	216.6	230.4	244.3	230.4	216.6	213.2	189.9	159.1	143.6	134.7
135°	200.6	203.6	215.6	227.6	215.6	203.6	200.6	181.3	155.4	142.5	134.6
137.5°	191.5	194.0	203.7	213.5	203.7	194.0	191.5	175.1	153.2	142.3	135.3
140°	184.1	186.4	195.5	204.7	195.5	186.4	184.1	170.0	151.1	141.6	135.5
142.5°	179.0	181.0	188.8	196.6	188.8	181.0	179.0	166.6	149.9	141.6	136.0
145°	171.2	172.8	178.7	184.6	178.7	172.8	171.2	161.0	147.5	140.7	136.0
147.5°	164.7	166.0	170.8	175.8	170.8	166.0	164.7	156.7	146.0	140.7	136.9
150°	161.0	162.0	166.0	170.0	166.0	162.0	161.0	154.2	145.2	140.7	137.4
152.5°	158.1	158.8	161.8	164.8	161.8	158.8	158.1	152.2	144.5	140.7	137.7
155°	154.5	155.0	157.0	159.0	157.0	155.0	154.5	149.9	143.7	140.7	138.4
157.5°	151.4	151.7	153.2	154.6	153.2	151.7	151.4	147.8	143.1	140.7	139.1
160°	149.8	150.0	150.9	151.7	150.9	150.0	149.8	146.8	142.7	140.7	139.4
162.5°	148.4	148.6	149.4	150.1	149.4	148.6	148.4	145.8	142.4	140.7	139.8
165°	146.2	146.4	147.3	148.0	147.3	146.4	146.2	144.4	141.9	140.7	140.3
167.5°	145.3	145.4	145.6	146.0	145.6	145.4	145.3	144.0	142.4	141.6	141.2
170°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	144.0	142.4	141.6	141.6
172.5°	144.5	144.4	144.1	143.8	144.1	144.4	144.5	143.5	142.3	141.6	141.6
175°	143.4	143.4	143.4	143.4	143.4	143.4	143.4	142.9	142.0	141.6	141.8
177.5°	143.2	143.2	142.9	142.5	142.9	143.2	143.2	142.8	142.1	141.8	142.0
180°	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P934202
 CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1687.3	1695.3	1700.2	1706.7	1722.8
5°	1622.6	1653.3	1663.0	1687.3	1716.3
7.5°	1480.4	1574.1	1600.0	1658.2	1703.4
10°	1343.0	1436.8	1482.1	1619.4	1687.3
12.5°	1273.5	1328.5	1359.2	1551.5	1664.7
15°	1229.9	1268.7	1291.4	1461.1	1638.8
17.5°	1195.9	1223.5	1239.6	1372.1	1603.3
20°	1174.9	1187.9	1202.4	1307.5	1562.9
22.5°	1160.4	1152.3	1163.7	1262.2	1507.8
25°	1150.7	1120.0	1132.9	1226.7	1443.2
27.5°	1158.8	1090.9	1095.8	1194.3	1375.4
30°	1160.4	1055.4	1057.0	1160.4	1299.4
32.5°	1149.1	1018.2	1019.8	1118.4	1213.7
35°	1121.6	974.6	973.0	1069.9	1097.4
37.5°	1084.4	927.7	927.7	1016.6	969.7
40°	1039.2	880.8	885.7	947.1	856.5
42.5°	984.2	830.8	837.2	854.9	772.5
45°	924.4	782.2	787.1	722.5	707.8
47.5°	858.2	732.1	733.7	599.6	686.8
50°	779.0	680.4	673.9	514.0	685.2
52.5°	709.5	623.8	604.4	465.5	622.2
55°	641.7	564.0	522.0	428.3	577.0
57.5°	581.8	486.5	446.1	384.7	567.3
60°	526.9	410.5	379.8	337.8	520.4
62.5°	481.6	353.9	347.4	305.4	472.0
65°	433.1	315.2	313.5	278.0	400.8
67.5°	386.3	289.3	287.6	252.1	305.4
70°	336.2	261.9	258.6	224.6	226.2
72.5°	284.4	231.1	227.9	202.0	187.5
75°	232.7	195.6	194.0	176.2	151.9
77.5°	182.6	155.2	158.3	142.2	111.5
80°	130.9	113.2	116.3	101.8	84.0
82.5°	87.3	74.3	77.5	64.7	56.5
85°	48.5	42.0	43.6	33.9	25.9
87.5°	22.6	19.4	19.4	12.9	8.1
90°	4.2	2.7	2.5	1.7	1.0
92.5°	26.0	18.4	16.8	10.3	3.8
95°	63.9	36.0	33.0	21.1	9.2
97.5°	86.0	39.5	36.9	26.4	15.9
100°	94.1	42.5	40.1	30.6	21.0
102.5°	97.8	45.5	43.3	34.3	25.4
105°	100.6	49.9	47.9	40.5	32.9
107.5°	101.0	56.3	54.6	47.6	40.6
110°	100.3	60.0	58.4	52.0	45.7



TEST NUMBER: P934202

CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	100.3	64.4	62.8	56.8	50.8
115°	101.2	71.0	69.5	64.0	58.4
117.5°	103.1	77.4	76.1	71.1	66.0
120°	104.6	81.1	79.9	75.2	70.4
122.5°	106.8	85.5	84.2	79.5	74.7
125°	109.8	91.2	90.1	85.7	81.3
127.5°	112.8	96.6	95.5	91.1	86.6
130°	115.0	100.3	99.0	94.3	89.5
132.5°	116.7	103.2	102.1	97.3	92.5
135°	118.6	106.7	105.6	101.2	96.9
137.5°	121.5	111.1	110.0	105.7	101.4
140°	123.2	114.0	113.1	109.1	105.1
142.5°	124.7	116.2	115.3	111.6	108.0
145°	126.6	119.6	118.8	115.6	112.4
147.5°	129.4	123.8	123.0	119.9	116.8
150°	130.8	126.0	125.3	122.4	119.7
152.5°	131.8	127.4	126.8	124.7	122.6
155°	133.9	130.5	130.2	128.5	127.0
157.5°	136.0	133.7	133.3	131.8	130.3
160°	136.9	135.1	134.8	133.6	132.5
162.5°	138.0	136.7	136.5	135.5	134.7
165°	139.4	138.9	138.7	137.8	137.0
167.5°	140.6	140.1	140.0	139.6	139.2
170°	141.5	141.5	141.4	141.1	140.7
172.5°	141.6	141.6	141.6	141.5	141.4
175°	142.2	142.5	142.5	142.5	142.5
177.5°	142.3	142.5	142.5	142.5	142.5
180°	142.5	142.5	142.5	142.5	142.5



TEST NUMBER: P934202
 CATALOG NUMBER: SQ4-FA-025U-125D-B40-1D-UNV-STD-W-4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.00	18.26	17.62	18.89	19.60	19.80	21.06	20.42	21.69	22.40
	3H	17.51	18.64	18.14	19.28	20.03	21.17	22.30	21.80	22.93	23.68
	4H	17.72	18.79	18.37	19.44	20.20	21.62	22.69	22.27	23.34	24.10
	6H	17.86	18.85	18.52	19.50	20.28	21.92	22.91	22.58	23.57	24.34
	8H	17.87	18.81	18.55	19.49	20.27	22.00	22.94	22.67	23.62	24.40
	12H	17.86	18.75	18.54	19.43	20.23	22.05	22.95	22.73	23.62	24.43
4H	2H	18.08	19.14	18.73	19.79	20.55	20.26	21.33	20.91	21.98	22.74
	3H	19.14	20.03	19.80	20.72	21.50	21.79	22.68	22.46	23.37	24.15
	4H	19.43	20.24	20.11	20.93	21.74	22.33	23.14	23.01	23.83	24.64
	6H	19.58	20.28	20.28	21.00	21.82	22.71	23.41	23.41	24.13	24.95
	8H	19.59	20.25	20.30	20.96	21.80	22.82	23.48	23.53	24.19	25.02
	12H	19.58	20.17	20.31	20.91	21.75	22.89	23.48	23.62	24.22	25.06
8H	4H	19.91	20.57	20.62	21.28	22.11	22.49	23.14	23.19	23.86	24.69
	6H	20.19	20.73	20.93	21.49	22.32	22.93	23.47	23.67	24.23	25.07
	8H	20.24	20.72	20.99	21.48	22.33	23.08	23.57	23.83	24.33	25.18
	12H	20.24	20.67	20.99	21.41	22.33	23.19	23.62	23.94	24.37	25.28
12H	4H	19.94	20.52	20.66	21.26	22.10	22.47	23.06	23.20	23.80	24.64
	6H	20.25	20.74	21.00	21.50	22.35	22.93	23.42	23.68	24.18	25.03
	8H	20.34	20.76	21.09	21.51	22.43	23.11	23.53	23.86	24.28	25.20